

# MONITORING REPORT 2020-2021

## TAHUAMANU AMAZON REDD PROJECT



Prepared by



|                                    |                                                           |
|------------------------------------|-----------------------------------------------------------|
| <b>Project title</b>               | TAHUAMANU AMAZON REDD PROJECT                             |
| <b>Project ID</b>                  | 2502                                                      |
| <b>Crediting period</b>            | 19/04/2017 – 18/04/2047                                   |
| <b>Monitoring period</b>           | 01/01/2020 – 31/12/2021; for VCS and CCB                  |
| <b>(CCB) GHG accounting period</b> | 19/04/2017 – 18/04/2047; 30-year lifetime for VCS and CCB |
| <b>Original date of issue</b>      | 1/12/2023                                                 |
| <b>Most recent date of issue</b>   | 20/09/2024                                                |
| <b>Version</b>                     | 05                                                        |
| <b>VCS Standard version</b>        | 4.5                                                       |
| <b>CCB Standards version</b>       | 3.1                                                       |

|                                     |                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project location</b>             | Peru, Madre de Dios                                                                                                                                                                                                                                                                                                                                          |
| <b>Project proponent(s)</b>         | MADERERA RIO ACRE SAC (MADERACRE SAC)<br>Nelson Kroll<br>nkroll@maderacre.com.pe<br>+51 982 798 120                                                                                                                                                                                                                                                          |
| <b>Validation/verification body</b> | ICONTEC<br>Angie Carolina Carreño Cucaita – Lead auditor<br>acarrenoc@icontec.org                                                                                                                                                                                                                                                                            |
| <b>History of CCB Status</b>        | 14/11/2022, CCB-VCS Project Description validation<br>14/11/2022, First Monitoring Report 2017-2019 verification                                                                                                                                                                                                                                             |
| <b>Gold Level criteria</b>          | Biodiversity Gold Level<br><br>The project proponent will implement activities related to the monitoring of wildlife populations in the project area with special emphasis on species with some degree of threat, the maintenance of the high conservation values and services it provides, and the custody and surveillance of the biodiversity it harbors. |
| <b>Prepared by</b>                  | ECO DEVELOPMENT GROUP SAC<br>Tatiana Eloisa Lapeyre Zárate<br>Lapeyre2018@gmail.com<br><br>PASKAY SAC<br>Jorge Torres Padilla<br>jtorres@paskay.pe                                                                                                                                                                                                           |

# CONTENTS

*Update the page numbers of the table of contents below upon completion of the project description.*

|          |                                                                                   |           |
|----------|-----------------------------------------------------------------------------------|-----------|
| <b>1</b> | <b>Summary of Project Benefits</b>                                                | <b>7</b>  |
| 1.1      | Unique Project Benefits .....                                                     | 7         |
| 1.2      | Standardized Benefit Metrics .....                                                | 8         |
| <b>2</b> | <b>Project details</b>                                                            | <b>11</b> |
| 2.1      | Summary Description of the Implementation Status of the Project .....             | 11        |
| 2.1.1    | Summary Description of the Project (VCS, 2.1, 3.6; CCB, G1.2)                     | 11        |
| 2.1.2    | Audit History (VCS, 4.1)                                                          | 16        |
| 2.1.3    | Sectoral Scope and Project Type (VCS, 3.2)                                        | 16        |
| 2.1.4    | Project Proponent (VCS, 3.7; CCB, G1.1)                                           | 16        |
| 2.1.5    | Other Entities Involved in the Project                                            | 17        |
| 2.1.6    | Project Start Date (VCS, 3.8)                                                     | 17        |
| 2.1.7    | Benefits Assessment and Project Crediting Period (VCS, 3.9; CCB, G1.9)            | 18        |
| 2.1.8    | Project Location (VCS, 3.11; CCB, G1.3)                                           | 18        |
| 2.1.9    | Title and Reference of Methodology (VCS, 3.1)                                     | 20        |
| 2.1.10   | Double Counting and Participation under Other GHG Programs (VCS, 3.23; CCB, G5.9) | 20        |
| 2.1.10.1 | No Double Issuance                                                                | 21        |
| 2.1.10.2 | Registration in Other GHG Programs                                                | 21        |
| 2.1.10.3 | Projects Rejected by Other GHG Programs                                           | 21        |
| 2.1.11   | Double Claiming, Other Forms of Credit, and Scope 3 Emissions (VCS, 3.24)         | 21        |
| 2.1.11.1 | No Double Claiming with Emissions Trading Programs or Binding Emission Limits     | 21        |
| 2.1.11.2 | No Double Claiming with Other Forms of Environmental Credit                       | 21        |
| 2.1.11.3 | Supply Chain (Scope 3) Emissions                                                  | 21        |
| 2.1.12   | Sustainable Development Contributions (VCS, 3.17)                                 | 22        |
| 2.2      | Project Implementation Status .....                                               | 3         |
| 2.2.1    | Implementation Schedule (VCS, 3.2; CCB, G1.9)                                     | 3         |
| 2.2.2    | Baseline Reassessment (VCS, 3.2.6, 3.2.7)                                         | 10        |
| 2.2.3    | Methodology Deviations (VCS, 3.20)                                                | 10        |
| 2.2.4    | Minor Changes to Project Description (CCB Program Rules, 3.5.6)                   | 10        |
| 2.2.5    | Project Description Deviations (VCS, 3.21; CCB Program Rules, 3.5.7 – 3.5.10)     | 11        |
| 2.2.6    | Grouped Projects (VCS, 3.6; CCB, G1.13-G1.15, G4.1)                               | 17        |

|        |                                                                                                     |    |
|--------|-----------------------------------------------------------------------------------------------------|----|
| 2.2.7  | Risks to the Project (CCB, G1.10)                                                                   | 18 |
| 2.2.8  | Benefit Permanence (CCB, G1.11)                                                                     | 21 |
| 2.3    | Stakeholder Engagement & Safeguards .....                                                           | 22 |
| 2.3.1  | Stakeholder Identification (VCS, 3.18, 3.19; CCB, G1.5)                                             | 22 |
| 2.3.2  | Stakeholder Access to Project Documents (VCS, 3.18, 3.19; CCB, G3.1)                                | 22 |
| 2.3.3  | Dissemination of Summary Project Documents (VCS, 3.18, 3.19; CCB, G3.1)                             | 23 |
| 2.3.4  | Informational Meetings with Stakeholders (VCS, 3.18, 3.19; CCB, G3.1)                               | 26 |
| 2.3.5  | Risks from the Project and No Net Harm (VCS, 3.18, 3.19)                                            | 31 |
| 2.3.6  | Community Costs, Risks, and Benefits (CCB, G3.2)                                                    | 34 |
| 2.3.7  | Information to Stakeholder on Verification Process (VCS, 3.18.6, 3.19; CCB, G3.3)                   | 35 |
| 2.3.8  | Site Visit Information and Opportunities to Communicate with Auditor (VCS, 3.18.6, 3.19; CCB, G3.3) | 35 |
| 2.3.9  | Stakeholder Consultation (VCS, 3.18; CCB, G3.4)                                                     | 36 |
| 2.3.10 | Continued Consultation and Adaptive Management (VCS, 3.18; CCB, G3.4)                               | 51 |
| 2.3.11 | Stakeholder Consultation Channels (CCB, G3.5)                                                       | 56 |
| 2.3.12 | Stakeholder Participation in Decision-Making and Implementation (VCS, 3.18, 3.19; CCB, G3.6)        | 56 |
| 2.3.13 | Anti-Discrimination Assurance (VCS, 3.19; CCB, G3.7)                                                | 58 |
| 2.3.14 | Grievances (VCS, 3.18.4; CCB, G3.8)                                                                 | 59 |
| 2.3.15 | Worker Training (VCS, 3.19; CCB, G3.9)                                                              | 60 |
| 2.3.16 | Community Employment Opportunities (VCS, 3.19.13; CCB, G3.10)                                       | 63 |
| 2.3.17 | Occupational Safety Assessment (VCS, 3.19; CCB, G3.12)                                              | 65 |
| 2.4    | Management Capacity .....                                                                           | 66 |
| 2.4.1  | Required Technical Skills (VCS, 3.19; CCB, G4.2)                                                    | 66 |
| 2.4.2  | Management Team Experience (VCS, 3.19; CCB, G4.2)                                                   | 75 |
| 2.4.3  | Project Management Partnerships/Team Development (VCS, 3.19; CCB, G4.2)                             | 75 |
| 2.4.4  | Financial Health of Implementing Organization(s) (CCB, G4.3)                                        | 75 |
| 2.4.5  | Avoidance of Corruption and Other Unethical Behavior (VCS, 3.19; CCB, G4.3)                         | 75 |
| 2.4.6  | Commercially Sensitive Information (VCS, 3.5.2-3.5.4; CCB Program Rules, 3.5.13 – 3.5.14)           | 76 |
| 2.5    | Legal Status and Property Rights .....                                                              | 76 |
| 2.5.1  | National and Local Laws (VCS, 3.1, 3.6, 3.7, 3.14, 3.18, 3.19; CCB, G5.6)                           | 76 |
| 2.5.2  | Relevant Laws and Regulations Related to Worker's Rights (VCS, 3.18, 3.19; CCB, G3.11)              | 84 |
| 2.5.3  | Human Rights (VCS, 3.19)                                                                            | 87 |
| 2.5.4  | Indigenous Peoples and Cultural Heritage (VCS, 3.18, 3.19)                                          | 87 |
| 2.5.5  | Recognition of Property Rights (VCS, 3.7, 3.18, 3.19; CCB, G5.1)                                    | 87 |

|          |                                                                                    |            |
|----------|------------------------------------------------------------------------------------|------------|
| 2.5.6    | Benefit Sharing Mechanism (VCS, 3.18, 3.19)                                        | 88         |
| 2.5.7    | Free, Prior, and Informed Consent (VCS, 3.18, 3.19; CCB, G5.2)                     | 88         |
| 2.5.8    | Property Right Protection (VCS, 3.18, 3.19; CCB, G5.3)                             | 88         |
| 2.5.9    | Identification of Illegal Activity (VCS, 3.19, CCB, G5.4)                          | 88         |
| 2.5.10   | Ongoing Disputes (VCS, 3.18, 3.19; CCB, G5.5)                                      | 88         |
| <b>3</b> | <b>Climate</b>                                                                     | <b>89</b>  |
| 3.1      | Monitoring GHG Emission Reductions and Removals .....                              | 89         |
| 3.1.1    | Data and Parameters Available at Validation (VCS, 3.16)                            | 89         |
| 3.1.2    | Data and Parameters Monitored (VCS, 3.16)                                          | 93         |
| 3.1.3    | Monitoring Plan (VCS, 3.16, 3.20)                                                  | 134        |
| 3.1.4    | Dissemination of Monitoring Plan and Results (VCS, 3.18; CCB, CL4.2)               | 140        |
| 3.2      | Quantification of GHG Emission Reductions and Removals.....                        | 141        |
| 3.2.1    | Baseline Emissions (VCS, 3.15)                                                     | 141        |
| 3.2.2    | Project Emissions (VCS, 3.15)                                                      | 141        |
| 3.2.3    | Leakage Emissions (VCS, 2.5, 3.2, 3.6, 3.15, 4.3)                                  | 151        |
| 3.2.4    | GHG Emission Reductions and Carbon Dioxide Removals (VCS, 3.15, 4.1)               | 153        |
| 3.3      | Optional Criterion: Climate Change Adaptation Benefits.....                        | 160        |
| 3.3.1    | Activities and/or processes implemented for Adaptation (CCB, GL1.3)                | 160        |
| <b>4</b> | <b>Community</b>                                                                   | <b>161</b> |
| 4.1      | Net Positive Community Impacts.....                                                | 161        |
| 4.1.1    | Community Impacts (CCB, CM2.1)                                                     | 161        |
| 4.1.2    | Negative Community Impact Mitigation (VCS, 3.19; CCB, CM2.2)                       | 168        |
| 4.1.3    | Net Positive Community Well-Being (VCS 3.19; CCB, CM2.3, GL1.4)                    | 169        |
| 4.1.4    | Protection of High Conservation Values (CCB, CM2.4)                                | 171        |
| 4.2      | Other Stakeholder Impacts .....                                                    | 172        |
| 4.2.1    | Mitigation of Negative Impacts on Other Stakeholders (VCS, 3.18, 3.19; CCB, CM3.2) | 172        |
| 4.2.2    | Net Impacts on Other Stakeholders (VCS, 3.18, 3.19; CCB, CM3.3)                    | 172        |
| 4.3      | Community Impact Monitoring.....                                                   | 172        |
| 4.3.1    | Community Monitoring Plan (CCB, CM4.1, CM4.2, GL1.4, GL2.2, GL2.3, GL2.5)          | 172        |
| 4.3.2    | Monitoring Plan Dissemination (CCB, CM4.3)                                         | 175        |
| 4.4      | Optional Criterion: Exceptional Community Benefits .....                           | 175        |
| 4.4.1    | Short-term and Long-term Community Benefits (CCB, GL2.2)                           | 175        |
| 4.4.2    | Marginalized and/or Vulnerable Community Groups (CCB, GL2.4)                       | 175        |
| 4.4.3    | Net Impacts on Women (CCB, GL2.5)                                                  | 175        |
| 4.4.4    | Benefit Sharing Mechanisms (CCB, GL2.6)                                            | 175        |

|                 |                                                                                      |            |
|-----------------|--------------------------------------------------------------------------------------|------------|
| 4.4.5           | Governance and Implementation Structures (CCB, GL2.8)                                | 175        |
| 4.4.6           | Smallholders/Community Members Capacity Development (CCB, GL2.9)                     | 175        |
| <b>5</b>        | <b>Biodiversity</b>                                                                  | <b>176</b> |
| 5.1             | Net Positive Biodiversity Impacts.....                                               | 176        |
| 5.1.1           | Biodiversity Changes (VCS, 3.19; CCB, B2.1)                                          | 176        |
| 5.1.2           | Mitigation Actions (VCS, 3.19; CCB, B2.3)                                            | 180        |
| 5.1.3           | Net Positive Biodiversity Impacts (CCB, B2.2, GL1.4)                                 | 188        |
| 5.1.4           | High Conservation Values Protected (CCB, B2.4)                                       | 194        |
| 5.1.5           | Species Used (VCS, 3.19; CCB, B2.5, 2.6)                                             | 196        |
| 5.1.6           | Invasive Species (VCS, 3.19; CCB, B2.5)                                              | 196        |
| 5.1.7           | GMO Exclusion (CCB, B2.7)                                                            | 197        |
| 5.1.8           | Inputs Justification (VCS, 3.19; CCB, B2.8)                                          | 197        |
| 5.2             | Offsite Biodiversity Impacts.....                                                    | 197        |
| 5.2.1           | Negative Offsite Biodiversity Impacts (CCB, B3.1) and Mitigation Actions (CCB, B3.2) | 197        |
| 5.2.2           | Net Offsite Biodiversity Benefits (VCS, 3.19; CCB, B3.3)                             | 200        |
| 5.3             | Biodiversity Impact Monitoring .....                                                 | 200        |
| 5.3.1           | Biodiversity Monitoring Plan (CCB, B4.1, B4.2, GL1.4, GL3.4)                         | 200        |
| 5.3.2           | Biodiversity Monitoring Plan Dissemination (CCB, B4.3)                               | 211        |
| 5.4             | Optional Criterion: Exceptional Biodiversity Benefits .....                          | 214        |
| 5.4.1           | Trigger Species Population Trends (CCB, GL3.2, GL3.3)                                | 217        |
| <b>APPENDIX</b> |                                                                                      | <b>220</b> |

# 1 SUMMARY OF PROJECT BENEFITS

## 1.1 Unique Project Benefits

**Table 1.1 Outcome or Impact estimated by the end of the project lifetime**

| Outcome or Impact                                                                              | Achievement during the Monitoring Period |      | Section Reference | Achievements during the Project Lifetime |
|------------------------------------------------------------------------------------------------|------------------------------------------|------|-------------------|------------------------------------------|
|                                                                                                | 2020                                     | 2021 |                   |                                          |
| Number of beneficiaries in health of indigenous peoples as a result of project activities      | 110                                      | 110  | 4                 | <b>110</b>                               |
| Number of beneficiaries in education of indigenous peoples as a result of project activities.  | 22                                       | 28   | 4                 | <b>8</b>                                 |
| Number of women of indigenous peoples benefiting through project activities.                   | 54                                       | 54   | 4                 | <b>54</b>                                |
| Number of promotional activities for the protection of indigenous peoples in isolation, PIACI. | 7                                        | 7    | 4                 | <b>7</b>                                 |

## 1.2 Standardized Benefit Metrics

**Table 1.2 Standardized Benefit metrics**

| Category                           | Metric                                                                                                                                                                                         | Achievements during Monitoring Period 2020 | Achievements during Monitoring Period 2021 | Section Reference | Achievements during the Project Lifetime <sup>1</sup> |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------|-------------------------------------------------------|
| GHG emission reductions & removals | Net estimated emission removals in the project area, measured against the without-project scenario                                                                                             | N. A.                                      | N. A.                                      |                   | N. A.                                                 |
|                                    | Net estimated emission reductions in the project area, measured against the with-project scenario (tCO <sub>2</sub> )                                                                          | 498,581                                    | 547,716                                    | 3                 | 4,897,052                                             |
| Forest <sup>2</sup> cover          | For REDD <sup>3</sup> projects: Number of hectares of reduced forest loss in the project area measured against the without-project scenario (ha)                                               | 909.45                                     | 983.61                                     | 3                 | 3,135.06                                              |
|                                    | For ARR <sup>4</sup> projects: Number of hectares of forest cover increased in the project area measured against the without-project scenario                                                  | N. A.                                      | N. A.                                      |                   | N. A.                                                 |
| Improved land management           | Number of hectares of existing production forest land in which IFM <sup>5</sup> practices have occurred as a result of the project's activities, measured against the without-project scenario | N. A.                                      | N. A.                                      |                   | N. A.                                                 |
|                                    | Number of hectares of non-forest land in which improved land management has occurred as a result of the project's activities, measured against the without-project scenario                    | N. A.                                      | N. A.                                      |                   | N. A.                                                 |

<sup>1</sup> Since 2017 for community.

<sup>2</sup> Land with woody vegetation that meets an internationally accepted definition (e.g., UNFCCC, FAO or IPCC) of what constitutes a forest, which includes threshold parameters, such as minimum forest area, tree height and level of crown cover, and may include mature, secondary, degraded and wetland forests (*VCS Program Definitions*)

<sup>3</sup> Reduced emissions from deforestation and forest degradation (REDD) - Activities that reduce GHG emissions by slowing or stopping conversion of forests to non-forest land and/or reduce the degradation of forest land where forest biomass is lost (*VCS Program Definitions*)

<sup>4</sup> Afforestation, reforestation and revegetation (ARR) - Activities that increase carbon stocks in woody biomass (and in some cases soils) by establishing, increasing and/or restoring vegetative cover through the planting, sowing and/or human-assisted natural regeneration of woody vegetation (*VCS Program Definitions*)

<sup>5</sup> Improved forest management (IFM) - Activities that change forest management practices and increase carbon stock on forest lands managed for wood products such as saw timber, pulpwood and fuelwood (*VCS Program Definitions*)

| Category    | Metric                                                                                                                                         | Achievements during Monitoring Period 2020 | Achievements during Monitoring Period 2021 | Section Reference | Achievements during the Project Lifetime <sup>1</sup> |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------|-------------------------------------------------------|
| Training    | Total number of community members who have improved skills and/or knowledge resulting from training provided as part of project activities     | 63                                         | 81                                         | 4                 | 109                                                   |
|             | Number of female community members who have improved skills and/or knowledge resulting from training provided as part of project activities    | 14                                         | 18                                         | 4                 | 18                                                    |
| Employment  | Total number of people employed in of project activities, <sup>6</sup> expressed as number of full time employees <sup>7</sup>                 | 63                                         | 81                                         | 4                 | 142                                                   |
|             | Number of women employed in project activities, expressed as number of full time employees.                                                    | 14                                         | 18                                         | 4                 | 18                                                    |
| Livelihoods | Total number of people with improved livelihoods <sup>8</sup> or income generated as a result of project activities                            | 188                                        | 221                                        | 4                 | 281                                                   |
|             | Number of women with improved livelihoods or income generated as a result of project activities                                                | 68                                         | 72                                         | 4                 | 72                                                    |
| Health      | Total number of people for whom health services were improved as a result of project activities, measured against the without-project scenario | 2,000                                      | 2,000                                      | 4                 | 2,000                                                 |
|             | Number of women for whom health services were improved as a result of project activities, measured                                             | 881                                        | 881                                        | 4                 | 881                                                   |

<sup>6</sup> Employed in project activities means people directly working on project activities in return for compensation (financial or otherwise), including employees, contracted workers, sub-contracted workers and community members that are paid to carry out project-related work.

<sup>7</sup> Full time equivalency is calculated as the total number of hours worked (by full-time, part-time, temporary and/or seasonal staff) divided by the average number of hours worked in full-time jobs within the country, region or economic territory (adapted from UN System of National Accounts (1993) paragraphs 17.14[15.102]; [17.28])

<sup>8</sup> Livelihoods are the capabilities, assets (including material and social resources) and activities required for a means of living (Krantz, Lasse, 2001. *The Sustainable Livelihood Approach to Poverty Reduction*. SIDA). Livelihood benefits may include benefits reported in the Employment metrics of this table.

| Category   | Metric                                                                                                                                                                                   | Achievements during Monitoring Period 2020 | Achievements during Monitoring Period 2021 | Section Reference | Achievements during the Project Lifetime <sup>1</sup> |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------|-------------------------------------------------------|
|            | against the without-project scenario                                                                                                                                                     |                                            |                                            |                   |                                                       |
| Education  | Total number of people for whom access to, or quality of, education was improved as a result of project activities, measured against the without-project scenario                        | 163                                        | 223                                        | 4                 | 375                                                   |
|            | Number of women and girls for whom access to, or quality of, education was improved as a result of project activities, measured against the without-project scenario                     | Data not available                         | Data not available                         | 4                 | Data not available                                    |
| Water      | Total number of people who experienced increased water quality and/or improved access to drinking water as a result of project activities, measured against the without-project scenario | 3,256 <sup>9</sup>                         | 3,256 <sup>10</sup>                        | 4                 | 3,256                                                 |
|            | Number of women who experienced increased water quality and/or improved access to drinking water as a result of project activities, measured against the without-project scenario        | 1,388                                      | 1,388                                      | 4                 | 1,388                                                 |
| Well-being | Total number of community members whose well-being <sup>11</sup> was improved as a result of project activities                                                                          | 173                                        | 221                                        | 4                 | 221                                                   |
|            | Number of women whose well-being was improved as a result of project activities                                                                                                          | 68                                         | 72                                         | 4                 | 72                                                    |

<sup>9</sup>Population located near and in the lowlands where the project is located. It is important to note that the indicator corresponds to an indirect impact on the ecosystem services to which the local population has access. The presence of the project contributes to the conservation of natural resources linked to the forest, including the water resources of the main bodies of water such as rivers that are a source for human use.

<sup>10</sup>Population located near and in the lowlands where the project is located. It is important to note that the indicator corresponds to an indirect impact on the ecosystem services to which the local population has access. The presence of the project contributes to the conservation of natural resources linked to the forest, including the water resources of the main bodies of water such as rivers that are a source for human use.

<sup>11</sup> Well-being is people's experience of the quality of their lives. Well-being benefits may include benefits reported in other metrics of this table (e.g. Training, Employment, Health, Education, Water, etc.), but could also include other benefits such as empowerment of community groups, strengthened legal rights to resources, conservation of access to areas of cultural significance, etc.

| Category                  | Metric                                                                                                                                                                                                      | Achievements during Monitoring Period 2020                                                           | Achievements during Monitoring Period 2021                                                           | Section Reference | Achievements during the Project Lifetime <sup>1</sup>                                                |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------|
| Biodiversity conservation | Change in the number of hectares significantly better managed by the project for biodiversity conservation, <sup>12</sup> measured against the without-project scenario                                     | 169,956.81                                                                                           | 169,956.81                                                                                           | 5                 | 169,956.81                                                                                           |
|                           | Number of globally Critically Endangered or Endangered species <sup>13</sup> benefiting from reduced threats as a result of project activities, <sup>14</sup> measured against the without-project scenario | 1 fauna ( <i>Ateles chamek</i> ) and 1 flora ( <i>Amburana cearensis</i> ) species are in IUCN list. | 1 fauna ( <i>Ateles chamek</i> ) and 1 flora ( <i>Amburana cearensis</i> ) species are in IUCN list. | 5                 | 1 fauna ( <i>Ateles chamek</i> ) and 1 flora ( <i>Amburana cearensis</i> ) species are in IUCN list. |

## 2 PROJECT DETAILS

### 2.1 Summary Description of the Implementation Status of the Project

#### 2.1.1 Summary Description of the Project (VCS, 2.1, 3.6; CCB, G1.2)

The proposed project is based on the enhancement and strengthening of the sustainable forest management of a consolidated group of forest concessions managed by a local company with long forest tradition, Maderera Río Acre SAC (hereinafter MADERACRE SAC), who also has previous successful experience with REDD+.

The whole area managed by MADERACRE SAC, including the current proposed project area and others already VCS/CCB verified, are FSC certified, which guarantees that logging activities are being done under adequate techniques.

The area faces increasing threats from unsustainable agrarian practices from neighboring local religious communities and others. To deal with it, the project plans to combine an increase in protection measures (patrolling, working together with other forest concessions and the forest and political authorities) with the promotion of productive activities for neighboring communities, as a strategy to offer alternative sources of income that do not imply the clearing of forest areas. Based on this approach, the project expects to reduce projected deforestation.

<sup>12</sup> Biodiversity conservation in this context means areas where specific management measures are being implemented as a part of project activities with an objective of enhancing biodiversity conservation.

<sup>13</sup> Per IUCN's Red List of Threatened Species

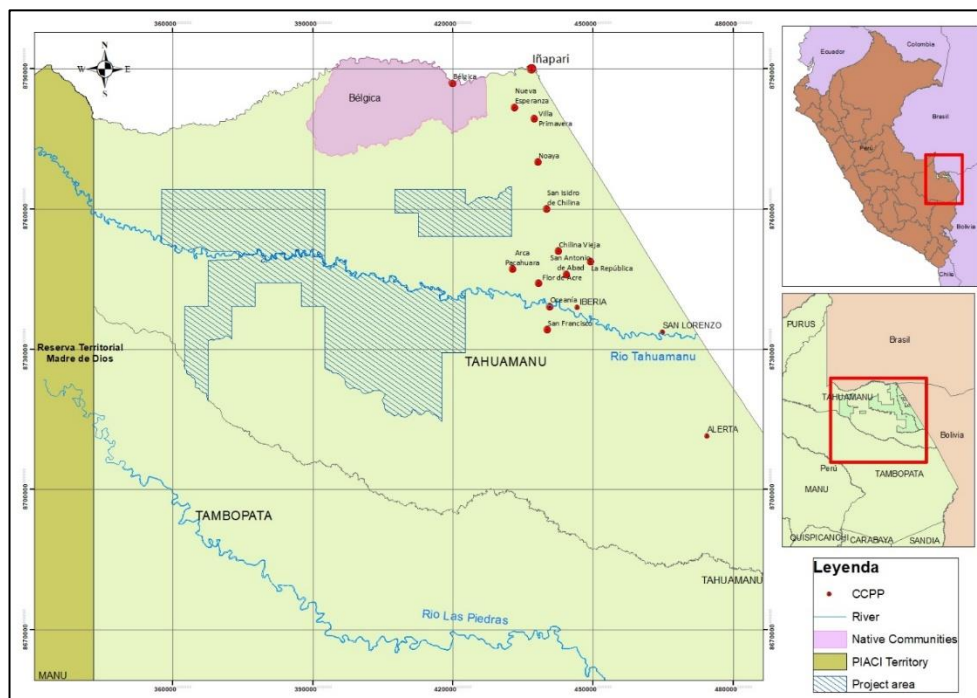
<sup>14</sup> In the absence of direct population or occupancy measures, measurement of reduced threats may be used as evidence of benefit

The project is located in Madre de Dios, a region in the south-east of the Peruvian Amazon with the most accelerated deforestation rate of Peru. Peru is recognized as a High Forest Low Deforestation country. Peruvian Forest Referent Level FREL for 2015- 2020 is based on a linear growing trend, so the project applies the same approach for the reference region

As described in the PD, some activities are going to be implemented at a large scale with secured incomes since the project generates and sell carbon units.

Notwithstanding, the Consultative Committee is already operative many years ago and has agreed and supported different actions with neighboring communities in topics as health, employment and education. Health and education are the indicators most in need of support, information that local stakeholders have expressed in the dialogue with stakeholders and the community.

In addition, the project has implemented actions regarding biodiversity and borders protection. Also, project proponent participates actively in inter institutional task force to consolidate forestry sector in Tahuamanu province.



**Figure 2.1 Project location**

Up to now, MADERACRE SAC has been able to manage and conserve the project but also the surrounding area (as close as 50 meters of distance, including other smaller forest concessions) but without additional resources, it is not likely that they will be able to continue protecting their concession as has already occurred to neighboring smaller concessions. The scenario existing prior to the implementation of the project is an increasing migration from surrounding regions, which causes a growing exponential deforestation rate. So, the objectives of the project are:

- Avoid 10,526.40 ha of forest loss in the project area in the coming 10 years.

- Avoid the negative impact over the biodiversity:
- 7 species at risk of extinction according to IUCN (6 fauna and 1 flora).
- There are 7 species under some risk of extinction that lives within or depend on the area under threat.
- Contribute with the improvement of welfare of 13 neighboring communities.

A net annual GHG emission reductions and removals of 498,581 tCO<sub>2</sub>e for 2020 and 547,716 tCO<sub>2</sub>e for 2021. And the VCU's are 448,722 for the year 2020 and 492,944 for 2021.

The Tahuamanu project has a life span of 30 years. The following table shows the estimated impacts according to the theory of change for each of the activities determined in the project. In addition, the actions developed for the 2020-2021 period are presented.

**Table 2.1 Summary table with activities proposed in the PD and those developed in the 2020-2021**

| Project Activity                                 | Activity description                                                                                                                 | Expected climate, community, and/or biodiversity Outputs (short term)                                    | Action carried out in the period                                                                                                                                       |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  |                                                                                                                                      |                                                                                                          |                                                                                                                                                                        |
| <b>Dissemination 1</b>                           | Project dissemination                                                                                                                | Banners<br>Web pages<br>Participatory Workshops<br>Radio broadcasts<br>Informative Meetings<br>Brochures | <b>Carried out in item 2.3.3</b>                                                                                                                                       |
| <b>Dissemination 2 (Environmental education)</b> | Develop and implement mechanisms for the diffusion of environmental education within children, teenagers and surrounding communities | Brochures, Banners, Speeches, Diffusion programs                                                         | <b>Carried out in items 4.1.2</b>                                                                                                                                      |
| <b>Climate 1</b>                                 | Satellite monitoring and fieldassessment of sectors with risk of invasion. VCUs calculation                                          | Land use maps                                                                                            | <b>Carried out in item 3 and 5.2.1.</b>                                                                                                                                |
| <b>Community 1</b>                               | Support for pilot sustainable production initiatives in neighboring communities to help reduce the expansion of the agricultural     | 2% of the revenue from the sale of carbon credits from the project is attached.                          | <b>No environmentally sustainable initiatives were developed for the 2020-2021 period. This, considering that the validation and use of 2% of carbon revenues will</b> |

| Project Activity      | Activity description                                                                                                                                                                                       | Expected climate, community, and/or biodiversity Outputs                                                                                                       | Action carried out in the period                                                                                                                                                                                                                                                                                                   |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                                                                                                                                                                                                            | (short term)                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                    |
|                       | frontier and improve the quality of life (2%)                                                                                                                                                              |                                                                                                                                                                | be received from the year 2023. Currently, the bases of the contest to identify productive initiatives are being developed.                                                                                                                                                                                                        |
| <b>Community 2</b>    | Strengthen / develop skills and capacities in family members that are part of selected projects, including local company workers                                                                           | Identified families or stakeholders                                                                                                                            | No environmentally sustainable initiatives were developed for the 2020-2021 period. This, considering that the validation and use of 2% of carbon revenues will be received from the year 2023. Currently, the bases of the contest to identify productive initiatives are being developed.                                        |
| <b>Community 3</b>    | Promote activities with entities whose goals are addressed to protect ANP and PIACI territory (isolated and initially contacted indigenous people) with 1% of annual project incomes                       | 1% of revenues from the sale of project carbon credits Organizations and activities aligned with project goals, identified, promoted and funded by the project | Implemented item 4.1.1<br><br>Although there is still no income from the sale of carbon credits, concrete actions are being carried out in response to this activity. Coordination with the Alto Purus Management Committee, Ministry of Culture, and other institutions. In addition, the Interpretation Center is being planned. |
| <b>Community 4</b>    | Promote activities with partners whose goals are focused on contributing to the sustainable development of the population (according to the prioritization of the Community Relations Advisory Committee). | 1% of revenues from the sale of project carbon credits Components and activities identified and co-financed by the project                                     | Item 4.1.1.<br><br>Although there is still no income from the sale of carbon credits, concrete actions are being carried out in response to this activity. Support in education, health and business management                                                                                                                    |
| <b>Biodiversity 1</b> | UMF Protection Integral Plan implementation                                                                                                                                                                | Patrolling system operating                                                                                                                                    | Carried out in item 5.1.3 (1)                                                                                                                                                                                                                                                                                                      |
| <b>Biodiversity 2</b> | Implement Reduced Impact Logging                                                                                                                                                                           | Management plans based on sustainability                                                                                                                       | Carried out in item 5.1.3 (2)                                                                                                                                                                                                                                                                                                      |

| Project Activity      | Activity description                                                                                                                                                                | Expected climate, community, and/or biodiversity Outputs                                                       | Action carried out in the period                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                                                                                                                                                                                     | (short term)                                                                                                   |                                                                                                                                                            |
|                       | techniques in the UMF to ensure healthy wildlife Population                                                                                                                         | criteria- FSC and degradation monitoring                                                                       |                                                                                                                                                            |
| <b>Biodiversity 3</b> | Participate in dialogue spaces and management of Protected Areas, including the Madre de Dios Territorial Reserve, searching for strategic partnerships focused on its conservation | Spaces with a permanent and active presence of the Project                                                     | <b>Carried out in item 5.1.3 (3)</b>                                                                                                                       |
| <b>Biodiversity 4</b> | Promote activities with entities whose goals are addressed to protect emblematic fauna and flora species with 1% of annual project incomes                                          | Organizations and activities aligned with the project goals, identified, promoted and cofounded by the project | <b>Carried out in item 5.4</b><br><br><b>Although there is still no income from the sale of carbon credits, the Interpretation Center is being planned</b> |

As can be seen in the table, during the 2020-21 period the activities:

- Support for pilot sustainable production initiatives in neighboring communities to reduce the expansion of the agricultural frontier and improve the quality of life (2%)
- Strengthening and capacity building of selected project families
- Promote activities with partners whose goals are focused on contributing to the sustainable development of the population (1%)
- Promote activities with partners whose goals are focused on protecting ANPS and PIACI territory. (1%).
- Promote activities with partners whose goals are focused on protecting emblematic fauna and flora (1%).

These are activities that will be carried out starting in 2023 (this year), as they require income from carbon sales. The promotion of activities with partners whose goals are focused on protecting ANPs and PIACI territory, is an activity that the company has been developing despite not yet having any money from carbon sales, as we will see in the development of this report. The activities have also been implemented with the known limitations due to the covid-19 pandemic. However, biodiversity

actions, dissemination and collaboration with community development have been implemented and the results presented in this report have been achieved.

### 2.1.2 Audit History (VCS, 4.1)

**Table 2.2 Summary table with activities proposed**

| Audit Type   | Period                             | Program  | VVB Name | Number of years |
|--------------|------------------------------------|----------|----------|-----------------|
| Validation   | 19 April 2017 – 18 April 2017      | VCS//CCB | AENOR    | 30              |
| Verification | 19 April 2017 – 31 December 2019   | VCS//CCB | AENOR    | 3               |
| Verification | 01 January 2020 – 31 December 2021 | VCS//CCB | ICONTEC  | 2               |

### 2.1.3 Sectoral Scope and Project Type (VCS, 3.2)

**Table 2.3 Sectoral Scope and Project type**

|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| <b>Sectoral Scope</b>         | 14: Agriculture, forestry, and other land use               |
| <b>AFOLU Project Category</b> | Reduced Emissions from Deforestation and Degradation (REDD) |
| <b>Project Activity Type</b>  | Avoiding Unplanned Deforestation and/or Degradation (AUDD)  |

### 2.1.4 Project Proponent (VCS, 3.7; CCB, G1.1)

**Table 2.4 Project Proponent**

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| <b>Organization name</b> | MADERACRE SAC                                                   |
| <b>Contact person</b>    | José Luis Canchaya / Nelson Kroll                               |
| <b>Title</b>             | Commercial Manager / Regional Manager                           |
| <b>Address</b>           | Carretera Interoceánica Sur Puerto Maldonado-Iñapari<br>Km. 227 |
| <b>Telephone</b>         | +51 954 688 869 / +51 982 798 120                               |
| <b>Email</b>             | jcanchaya@matim.pe / nkroll@maderacre.com                       |

### 2.1.5 Other Entities Involved in the Project

**Table 2.5 Other entities involved in the Project (1)**

|                            |                                             |
|----------------------------|---------------------------------------------|
| <b>Organization name</b>   | Paskay S.A.C.                               |
| <b>Role in the project</b> | Co-developer                                |
| <b>Contact person</b>      | Jorge Torres Padilla                        |
| <b>Title</b>               | Chief Executive Officer                     |
| <b>Address</b>             | C. Grimaldo del Solar 162, Miraflores 15074 |
| <b>Telephone</b>           | +51 943 206 810                             |
| <b>Email</b>               | jtorres@paskay.com                          |

**Table 2.6 Other entities involved in the Project (2)**

|                            |                                       |
|----------------------------|---------------------------------------|
| <b>Organization name</b>   | Eco Development Group sac.            |
| <b>Role in the project</b> | Co-developer Monitoring Report        |
| <b>Contact person</b>      | Tatiana Lapeyre Zárte                 |
| <b>Title</b>               | General Manager                       |
| <b>Address</b>             | Av Bugarvilla 195 Valle Hermoso Surco |
| <b>Telephone</b>           | +51 998123747                         |
| <b>Email</b>               | Lapeyre2018@gmail.com                 |

### 2.1.6 Project Start Date (VCS, 3.8)

**Table 2.7 Project Start Date**

|                           |               |
|---------------------------|---------------|
| <b>Project start date</b> | 19 April 2017 |
|---------------------------|---------------|

|                      |                                                                                                                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Justification</b> | Date on which the government resolution that authorizes the implementation of the forest management plan for the 2017 period comes into force, empowering the execution of management and protection activities in the project area. |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 2.1.7 Benefits Assessment and Project Crediting Period (VCS, 3.9; CCB, G1.9)

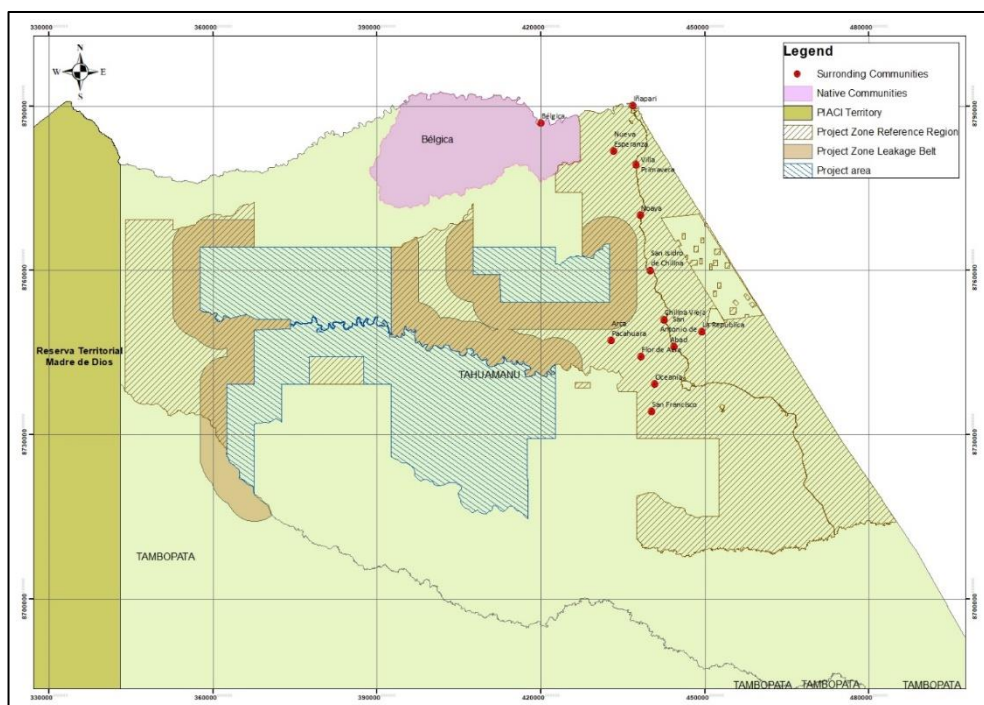
**Table 2.8 Benefits Assessment**

|                                                      |                                                                                                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crediting Period</b>                              | 30 years crediting period, equivalent to the project life. A robust custody and surveillance system is implemented for the project area. |
| <b>Start Date of First or Fixed Crediting Period</b> | 19 April 2017 to 18 April 2047                                                                                                           |
| <b>Total Number of Years of Crediting Period</b>     | 30 years                                                                                                                                 |
| <b>CCB Benefits Assessment Period</b>                | 01 January 2020 to 31 December 2021                                                                                                      |

### 2.1.8 Project Location (VCS, 3.11; CCB, G1.3)

☐ KML file has been provided

Map Figure 2.2 shows the Reference Region where the identified community groups are located: Iñapari, Nueva Esperanza, San Francisco Asís, Flor de Acre, Oceanía, La República, Chilina Vieja, San Antonio de Abad, San Isidro de Chilina, Arca Pacahuara, Noaya, Villa Primavera and Belgica Native Community.



**Figure 2.2 Project Zone Map**

The Project area and Leakage belt can also be observed. To the north of the project area is the Belgica Native Community and to the west is the Madre de Dios Territorial Reserve.

**Table 2.9 Coordinates of Project Area**

| Vertex | X (East) | X (North) |
|--------|----------|-----------|
| 1      | 357557   | 8764249   |
| 2      | 392557   | 8764249   |
| 3      | 407548   | 8764249   |
| 4      | 422557   | 8764249   |
| 5      | 422557   | 8761222   |
| 6      | 432563   | 8764786   |
| 7      | 432562   | 8754249   |
| 8      | 412544   | 8754249   |
| 9      | 412522   | 8759255   |
| 10     | 407548   | 8759249   |
| 11     | 392557   | 8748545   |
| 12     | 422557   | 8742708   |
| 13     | 422557   | 8729249   |
| 14     | 417541   | 8729279   |
| 15     | 417567   | 8714612   |
| 16     | 392557   | 8725980   |

|    |        |         |
|----|--------|---------|
| 17 | 392557 | 8739249 |
| 18 | 387550 | 8739249 |
| 19 | 387550 | 8744249 |
| 20 | 377557 | 8744249 |
| 21 | 377557 | 8739249 |
| 22 | 372557 | 8739249 |
| 23 | 372557 | 8732250 |
| 24 | 367557 | 8731899 |
| 25 | 367557 | 8719126 |
| 26 | 362557 | 8726006 |
| 27 | 362557 | 8739249 |
| 28 | 367557 | 8739249 |
| 29 | 367557 | 8749052 |
| 30 | 374120 | 8749300 |
| 31 | 374120 | 8751000 |
| 32 | 368000 | 8751000 |
| 33 | 366000 | 8752000 |
| 34 | 363100 | 8751259 |
| 35 | 357556 | 8752790 |

### 2.1.9 Title and Reference of Methodology (VCS, 3.1)

**Table 2.10 Tittle and Reference**

| Type<br>(methodology,<br>tool, module) | Reference ID<br>(if applicable) | Title                                                                                                                                 | Version |
|----------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------|
| Methodology                            | VM0006                          | Methodology for Carbon Accounting for Mosaic and Landscape-scale REDD Projects                                                        | 2.2     |
| Tool                                   | VT0001                          | Tool for the Demonstration and Assessment of Additionality in VCS Agriculture, Forestry and Other Land Use (AFOLU) Project Activities | 3.0     |
| Tool                                   | -                               | AFOLU Non-Permanence Risk Tool                                                                                                        | 4.0     |

### 2.1.10 Double Counting and Participation under Other GHG Programs (VCS, 3.23; CCB, G5.9)

### 2.1.10.1 No Double Issuance

Is the project receiving or seeking credit for reductions and removals from a project activity under another GHG program, or any other form of community, social, or biodiversity unit or credit?

☐ Yes ☒ No

### 2.1.10.2 Registration in Other GHG Programs

Is the project registered or seeking registration under any other GHG programs?

☐ Yes ☒ No

### 2.1.10.3 Projects Rejected by Other GHG Programs

Has the project been rejected by any other GHG programs?

☐ Yes ☒ No

## 2.1.11 Double Claiming, Other Forms of Credit, and Scope 3 Emissions (VCS, 3.24)

### 2.1.11.1 No Double Claiming with Emissions Trading Programs or Binding Emission Limits

Are project reductions and removals or project activities also included in an emissions trading program or binding emission limit? See the VCS Program Definitions for definitions of emissions trading program and binding emission limit.

☐ Yes ☒ No

### 2.1.11.2 No Double Claiming with Other Forms of Environmental Credit

Has the project activity sought, received, or is planning to receive credit from another GHG-related environmental credit system? See the VCS Program Definitions for definition of GHG-related environmental credit system.

☐ Yes ☒ No

### 2.1.11.3 Supply Chain (Scope 3) Emissions

Do the project activities affect the emissions footprint of any product(s) (goods or services) that are part of a supply chain?

☐ Yes ☒ No

*If yes:*

Is the project proponent(s) or authorized representative a buyer or seller of the product(s) (goods or services) that are part of a supply chain?

☐ Yes☐ No*If yes:*

Has the project proponent(s) or authorized representative posted a public statement on their website saying, “Carbon credits may be issued through Verified Carbon Standard project [project ID] for the greenhouse gas emission reductions or removals associated with [project proponent or authorized representative organization name(s)] [name of product(s) whose emissions footprint is changed by the project activities].”?

☐ Yes☐ No

#### 2.1.12 Sustainable Development Contributions (VCS, 3.17)

The project contributes to the development of the locality. The jobs comply with legislation and a number of jobs are given to women and local people, helping to increase their economic level.

Citizens are educated in sustainable development and forest management. Avoids carbon emissions through monitoring and surveillance activities, the placement of milestones, guardhouses and the UMF's Integral Custody Plan. Collaborates with the conservation of 169,956 ha. through forest management, and also indirectly protects the areas of indigenous populations in voluntary isolation and initial contact (PIACI).

**Table 2.11 Sustainable Development Contributions**

| Row number | SDG target | SDG indicator                                                                                                                                                                                                                                     | Net impact on SDG indicator        | Current project contributions                                                                                                                                                                                                                     | Contributions over project lifetime                                                                                                                                                                                                                                                   |
|------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1          | 8.8        | 8.8.2 Level of national compliance with labor rights (freedom of association and collective bargaining) according to textual sources of the International Labor Organization (ILO) and domestic legislation, disaggregated by sex and immigration | Implemented activities to increase | <p>The national and internal policies that configure the labor benefits for project workers (2020: <b>88</b> total - <b>16</b> women; 2021: <b>167</b> total - <b>23</b> women) are faithfully complied with.</p> <p>See section 2.3.15 and 0</p> | <p>During the project life, <b>491</b> workers (<b>76</b> women) who carry out activities directly related to forest management have benefited.</p> <p>See section 2.3.15 and 0</p>                                                                                                   |
| 2          | 13.0       | Tonnes of greenhouse gas emissions avoided                                                                                                                                                                                                        | Implemented activities to decrease | A net annual GHG emission reductions and removals of 498,581 tCO <sub>2</sub> e for 2020 and 547,716 tCO <sub>2</sub> e for 2021                                                                                                                  | <p>A net annual GHG emission reductions and removals of</p> <p>2017----1'130,205</p> <p>2018----1'264,593</p> <p>2019----1'455,957</p> <p>An adjustment was made in the calculations for future emission reductions, so the net annual GHG emissions for 2020 and 2021 are lower.</p> |

| Row number | SDG target | SDG indicator                                         | Net impact on SDG indicator                | Current project contributions                                                                                                                                                                                                                                                                                                                                                                                              | Contributions over project lifetime                                                                               |
|------------|------------|-------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 3          | 15.1       | 15.1.1 Forest area as a proportion of total land area | Implemented activities to keep             | It contributes to the conservation of 169,956.81 ha. 0.25% of the national total of Amazonian forests                                                                                                                                                                                                                                                                                                                      | 169,956.81 ha                                                                                                     |
| 4          | 15.2       | 15.2.1 Progress towards sustainable forest management |                                            | At the national level, this indicator has not yet been generated. The project has 169,956.81 ha under management.                                                                                                                                                                                                                                                                                                          | At the national level, this indicator has not yet been generated. The project has 169,956.81 ha under management. |
| 5          | 15.        | 15.5.1 Red List Index                                 | Implemented activities to keep the species | <p>It contributes to the conservation of 169,956.81 ha, where the project proponent guards and monitors the project areas for the maintenance of species that are with some degree of threat on the IUCN red list with a total of 03 registered.:</p> <ul style="list-style-type: none"> <li>- <i>Ateles chamek</i> (EN)</li> <li>- <i>Amburana cearensis</i> (EN)</li> <li>- <i>Swietenia macrophylla</i> (EN)</li> </ul> | 2 fauna and 1 flora species are in IUCN list                                                                      |

## 2.2 Project Implementation Status

### 2.2.1 Implementation Schedule (VCS, 3.2; CCB, G1.9)

**Table 2.12 Milestone activities implemented**

| Activity                                         |                                                                                                                                      | 2017                                                                                                                                                                                                                                                                                | 2018                                                                                                                                                                                                                                                                                                                              | 2019                                                                                                                                                                                                                                                                                          | 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2021 |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>Dissemination 1</b>                           | Project diffusion                                                                                                                    | <p>Dissemination of good forest management practices in the project area:</p> <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC and 1<sup>st</sup> CCRC: 05<sup>th</sup> May 2017</li> <li>2<sup>nd</sup> TPC and 2<sup>nd</sup> CCRC: 21<sup>th</sup> Dec. 2017</li> </ul> | <p>Dissemination of the implementation and related benefits of the Tahuamanu Amazon REDD+ Project to the communities:</p> <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC and 1<sup>st</sup> CCRC: 13<sup>th</sup> Abril 2018</li> <li>2<sup>nd</sup> TPC and 2<sup>nd</sup> CCRC: 14<sup>th</sup> Dec. 2018</li> </ul> | <p>Dissemination of the activity framework of the Tahuamanu Amazon REDD+ Project:</p> <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC and 1<sup>st</sup> CCRC: 26<sup>th</sup> Abril 2019</li> <li>2<sup>nd</sup> TPC and 2<sup>nd</sup> CCRC: 06<sup>th</sup> Dec. 2019</li> </ul> | <p>The dissemination of the objectives, progress, fulfillments, beneficiaries and results of the project activities were shared through the citizen participation workshops (TPC) and the Community Relations Committee (CCRC) at the beginning and end of the year.</p> <p>2020:</p> <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC and 1<sup>st</sup> CCRC: 25<sup>th</sup> June 2020</li> <li>2<sup>nd</sup> TPC and 2<sup>nd</sup> CCRC: 10<sup>th</sup> Dec. 2020</li> </ul> <p>2021:</p> <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC and 1<sup>st</sup> CCRC: 26<sup>th</sup> Feb. 2021</li> <li>2<sup>nd</sup> TPC and 2<sup>nd</sup> CCRC: 10<sup>th</sup> Dec. 2021</li> </ul> <p>See Sections 2.3.3 and 2.3.4</p> |      |
| <b>Dissemination 2 (Environmental education)</b> | Develop and implement mechanisms for the diffusion of environmental education within children, teenagers and surrounding communities | <p>The annual environmental education agreement is signed with I.E. Elena Bertha school, and talks on forest conservation as well as bio-garden workshop implementation are carried out.</p> <p>Good forest management practices were shared during the</p>                         | <p>The annual environmental education agreements are signed with I.E. Elena Bertha and I.E. Secundaria Iñapari schools, and talks on forest conservation as well as the implementation of bio-garden workshops are carried out.</p> <p>Good forest</p>                                                                            | <p>The annual environmental education agreements are signed with I.E. Elena Bertha and I.E. Secundaria Iñapari schools, and talks on forest conservation as well as the implementation of bio-garden workshops are carried out.</p> <p>Good forest</p>                                        | <p>Environmental education is taught in educational institutions in the province of Tahuamanu, sharing information about the importance of standing forests and the benefits they provide to populations in goods and services.</p> <ul style="list-style-type: none"> <li>Environmental education agreement Maderacre and I.E. Secundaria Iñapari</li> <li>Environmental education agreement Maderacre and I.E. Elena Bertha</li> </ul> <p>See Section 4.1.1</p> <p>Additionally, through the TPCs, the project proponent socializes good forest management practices that positively impact</p>                                                                                                                                                    |      |

| Activity           |                                                                                                                                                                                          | 2017                                                                                                                                                                           | 2018                                                                                                                                                                                                                    | 2019                                                                                                                                                                                                                    | 2020                                                                                                                                                                                                                                                                                                                                                                                                 | 2021                                                                                                                                                                                                                                                                 |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                                                                                                                                                                                          | TPC carried out on: <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC: 05<sup>th</sup> May 2017</li> <li>2<sup>nd</sup> TPC: 21<sup>th</sup> Dec. 2017</li> </ul>      | management practices were shared during the TPC carried out on: <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC: 13<sup>th</sup> Abril 2018</li> <li>2<sup>nd</sup> TPC: 14<sup>th</sup> Dec. 2018</li> </ul> | management practices were shared during the TPC carried out on: <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC: 26<sup>th</sup> Abril 2019</li> <li>2<sup>nd</sup> TPC: 06<sup>th</sup> Dec. 2019</li> </ul> | the forest and the population in the influence area.<br>2020: <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC: 25<sup>th</sup> June 2020</li> <li>2<sup>nd</sup> TPC: 10<sup>th</sup> Dec. 2020</li> </ul> 2021: <ul style="list-style-type: none"> <li>1<sup>st</sup> TPC: 26<sup>th</sup> Feb. 2021</li> <li>2<sup>nd</sup> TPC: 10<sup>th</sup> Dec. 2021</li> </ul> See Sections 2.3.4 |                                                                                                                                                                                                                                                                      |
| <b>Climate 1</b>   | Satellite monitoring and field assessment of sectors with risk of invasion                                                                                                               | Use of digital platforms to monitor forest cover loss events within the project area, as well as the latent risks in the leakage belt.<br><br>Date: Throughout the entire year | Use of digital platforms to monitor forest cover loss events within the project area, as well as the latent risks in the leakage belt.<br><br>Date: Throughout the entire year                                          | Use of digital platforms to monitor forest cover loss events within the project area, as well as the latent risks in the leakage belt.<br><br>Date: Throughout the entire year                                          | Compliance with satellite monitoring of the project area and the adjacent areas of greatest risk of deforestation.<br><br>Date: The activity is implemented throughout the entire year<br><br>See Section 3.                                                                                                                                                                                         |                                                                                                                                                                                                                                                                      |
| <b>Community 1</b> | Support pilot sustainable productive initiatives of surrounding communities, reducing the expansion of agrarian frontier and improving livelihood conditions with 2% of project incomes. | The activity will take place when the project generates revenue from the sale of carbon credits.                                                                               | The activity will take place when the project generates revenue from the sale of carbon credits.                                                                                                                        | The activity will take place when the project generates revenue from the sale of carbon credits.                                                                                                                        | Information on the Tahuamanu Amazon REDD Project was provided during the TPCs (1 <sup>st</sup> : 25 <sup>th</sup> June 2020; 2 <sup>nd</sup> : 10 <sup>th</sup> Dec. 2020), explaining the main characteristics of this project and the importance of its implementation.<br><br>See Sections 2.3.4                                                                                                  | Stakeholders were informed of the main characteristics of the project, highlighting the importance of its implementation and the project's contribution to the environmental component and the development of the surrounding communities.<br><br>See Sections 2.3.4 |
| <b>Community 2</b> | Strengthen / develop skills and capacities in family members that are part of selected projects, including local company workers                                                         |                                                                                                                                                                                |                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                      |

|             | Activity                                                                                                                                                                                                                                                       | 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2018                                                                                                                                                                                                                                                                                                                                    | 2019                                                                                                                                                                                                                                                                                        | 2020                                                                                                                                                                                                                                                                                                                               | 2021                                                                                                                                                                                                                                                                                                                                   |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Community 3 | Promote activities with partners whose goals are focused on protecting ANPs and PIACI territory with 1% of project incomes                                                                                                                                     | The activity is designed to be implemented after revenue is generated from the sale of carbon credits. However, efforts have been made in favor of Indigenous Peoples in Isolation and Initial Contact (PIACI) during the years 2017, 2018, and 2019 for their protection. The project proponent elaborated an anthropological contingency plan to address risk situations in case of evidence or encounters with indigenous populations in isolation or initial contact, and shared it with key stakeholders for their protection, as well as provided training to the personnel directly working on the project. |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                             | Tripartite inter-institutional cooperation agreement between the Alto Purus National Park, MADERACRE SAC and Aid for Wildlife Society. Agreement signed on 12th August 2020 but not developed due to Pandemic. This agreement includes the implementation of many key activities for the protection of PIACI.<br><br>See Table 4.5 | Tripartite inter-institutional cooperation agreement between the Alto Purus National Park, MADERACRE SAC and Aid for Wildlife Society. This agreement includes the implementation of many key activities for the protection of PIACI.<br><br>See Table 4.5                                                                             |
|             |                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                        |
| Community 4 | Promote activities with entities whose goals are addressed to contribute to the sustainable development of the population (according to prioritization of the Consulting Committee of Community Relationship of the project, with 1% of annual project incomes | Agreements signed in favor of:<br>Education:<br><ul style="list-style-type: none"> <li>Sept. 2017: Belgica Native Community</li> </ul> Health:<br><ul style="list-style-type: none"> <li>Sept. 2017: Belgica Native Community</li> <li>January 2017: Iñapari Health Center</li> </ul>                                                                                                                                                                                                                                                                                                                              | Agreements signed in favor of:<br>Education:<br><ul style="list-style-type: none"> <li>Oct. 2018: Belgica Native Community</li> <li>July 2018: CEBA – Belgica Native Community</li> <li>March 2018: CEBA located in Iñapari</li> </ul> Health:<br><ul style="list-style-type: none"> <li>Oct. 2018: Belgica Native Community</li> </ul> | Agreements signed in favor of:<br>Education:<br><ul style="list-style-type: none"> <li>Oct. 2019: Belgica Native Community</li> <li>March 2019: CEBA – Belgica Native Community</li> </ul> Health:<br><ul style="list-style-type: none"> <li>Oct. 2019: Belgica Native Community</li> </ul> | The project proponent has renewed health and education agreements with local institutions for the benefit of the communities, including the Belgica Native Community, which has allowed the continuity of regular basic education for children, youth, and adults, as well as contributing to basic                                | The project proponent has renewed health and education agreements with local institutions for the benefit of the communities, including the Belgica Native Community, which has allowed the continuity of regular basic education for children, youth, and adults, as well as contributing to basic medical care and preventive health |
|             |                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                        |

| Activity       |                                             | 2017                                                                                                                                                                                                                                                                                  | 2018                                                                                                                                                                                                  | 2019                                                                                                                                                                                                                                                                                                 | 2020                                                                                                                                                                                                                                                                                                                                                                                                                           | 2021                                                                                                                                                                                                                                                                                                                                   |
|----------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodiversity 1 |                                             |                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>June 2018: Iñapari Health Center</li> </ul>                                                                                                                    |                                                                                                                                                                                                                                                                                                      | <p>medical care and preventive health services (See Table 4.3).</p> <p>Agreements signed in favor of:</p> <p>Education:</p> <ul style="list-style-type: none"> <li>Oct. 2020: Belgica Native Community</li> <li>November 2020: CEBA – Belgica Native Community</li> <li>November 2020: CEBA located in Iñapari</li> </ul> <p>Health:</p> <ul style="list-style-type: none"> <li>Oct. 2020: Belgica Native Community</li> </ul> | <p>services (See Table 4.3).</p> <p>Agreements signed in favor of:</p> <p>Education:</p> <ul style="list-style-type: none"> <li>Oct. 2021: Belgica Native Community</li> <li>May 2021: CEBA – Belgica Native Community</li> </ul> <p>Health:</p> <ul style="list-style-type: none"> <li>Oct. 2021: Belgica Native Community</li> </ul> |
|                | UMF Protection Integral Plan implementation | The start date of the project and the accreditation is April 19, 2017, the date on which the government resolution authorizing the implementation of the forest management plan came into effect, enabling the execution of management and protection activities in the project area. | A robust custody and surveillance system has been implemented in the project area through river and land patrols, along with satellite monitoring that enables early detection of illegal activities. | <p>A robust custody and surveillance system has been implemented in the project area through river and land patrols, along with satellite monitoring that enables early detection of illegal activities.</p> <p>Surveillance Post Estoraque is being built on the Tahuamanu River to monitor and</p> | <p>Throughout the year, the project proponent implements a comprehensive custody and surveillance plan that allows for the detection of illegal logging, deforestation, poaching, forest fires, etc.</p> <p>See 5.1.3 - A</p>                                                                                                                                                                                                  | <p>Throughout the year, the project proponent implements a comprehensive custody and surveillance plan that allows for the detection of illegal logging, deforestation, poaching, forest fires, etc.</p> <p>See 5.1.3 - A</p>                                                                                                          |

| Activity       |                                                                                                                    | 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2018 | 2019                                                                                   | 2020                                                                                                                                                                                                                                                                                                                       | 2021                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodiversity 2 |                                                                                                                    | <p>This followed a successful FSC reassessment carried out in January 2017.</p> <p>A robust custody and surveillance system has been implemented in the project area.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | guard against the transit of illegal activities towards the PIACI Territorial Reserve. |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                | Implement Reduced Impact Logging techniques in the UMF to ensure healthy wildlife population                       | <p>Reduced impact logging (RIL) is carried out from the planning of activities to the end of operations, which includes the design and construction of primary and secondary forest roads, directional felling, design and opening of skidding trails, log skidding, and design and opening of log storage yards. The project proponent significantly reduces the impacts on the forest and its biodiversity in order to maintain high resilience, allowing forest structures to regenerate in the short and medium term.</p> <p>Start of operations:</p> <ul style="list-style-type: none"> <li>• April 2017</li> <li>• April 2018</li> <li>• April 2019</li> </ul> |      |                                                                                        | <p>Forest harvesting in Cutting Plot (CP) 17 with the implementation of RIL in log skidding activities and the opening of log storage yards (operations of smaller scale due to the COVID-19 pandemic). Start of operations:</p> <ul style="list-style-type: none"> <li>• May 2020</li> </ul> <p>See Section 5.1.3 - B</p> | <p>Forest harvesting in CP 18 and CP 14 with the implementation of RIL in the planning and construction of primary and secondary forest roads, directional felling, planning and opening of skidding trails, log skidding, and planning and opening of log yards. Start of operations:</p> <ul style="list-style-type: none"> <li>• PC 18: April 2021</li> <li>• PC 14: August 2021</li> </ul> <p>See Section 5.1.3 - B</p> |
|                | Participate in dialogue spaces and management of Protected Areas, including the Madre de Dios Territorial Reserve, | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -    | Participation in the Assemblies of the Management Committee of the Alto Purus National | Tripartite inter-institutional cooperation agreement between the Alto Purus                                                                                                                                                                                                                                                | Tripartite inter-institutional cooperation agreement between the Alto Purus                                                                                                                                                                                                                                                                                                                                                 |

| Activity       |                                                                                                                                      | 2017                                                                                                                                                                                                                                                                 | 2018                                                                                                                                                                                                                                  | 2019                                                                                                                                                                                                                                                                                                                         | 2020                                                                                                                                                                                                                                                                                                                                                                                             | 2021                                                                                                                                                                                                                                                                                                                                     |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodiversity 4 | searching for strategic partnerships focused on its conservation                                                                     |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                       | Park (PNAP), where the project proponent is a member. Activities that benefit the conservation of the Madre de Dios Territorial Reserve (PIACI population located) and PNAP are promoted.<br>Meeting dates: <ul style="list-style-type: none"> <li>• 3<sup>rd</sup> July 2019</li> <li>• 4<sup>th</sup> Oct. 2019</li> </ul> | National Park, MADERACRE SAC and Aid for Wildlife Society. Agreement signed on 12th August 2020 (Valid for 2020-2021). Promote comprehensive patrols in the Tahuamanu River, as well as environmental education activities within the PNAP area. Likewise, participate in dialogue spaces to implement joint actions in favor of the conservation of local forests.<br><br>See Section 5.1.3 - C | National Park, MADERACRE SAC and Aid for Wildlife Society. Agreement signed in 2020 (Valid for 2020-2021). Promote comprehensive patrols in the Tahuamanu River, as well as environmental education activities within the PNAP area.<br><br>See Section 5.1.3 - C                                                                        |
|                | Promote activities with partners whose goals are focused on protecting emblematic fauna and flora, with 1% of annual project incomes | Activities implemented in coordination with third parties: <ul style="list-style-type: none"> <li>• Study of jaguar and prey populations using camera traps – San Diego Zoo</li> <li>• Five-year monitoring of wild fauna in the project area – Juan Loja</li> </ul> | Activities implemented in coordination with third parties: <ul style="list-style-type: none"> <li>• Study of jaguar and prey populations using camera traps – San Diego Zoo</li> </ul> The research is conducted throughout the year. | Activities implemented in coordination with third parties: <ul style="list-style-type: none"> <li>• Study of jaguar and prey populations using camera traps – San Diego Zoo</li> </ul> The research is conducted throughout the year.                                                                                        | The objectives of protecting emblematic wildlife and flora of the region have enabled institutions to join efforts to achieve the goals. The activities implemented are as follows: <ul style="list-style-type: none"> <li>• Study of jaguar and prey populations using camera traps –</li> </ul>                                                                                                | The objectives of protecting emblematic wildlife and flora of the region have enabled institutions to join efforts to achieve the goals. The activities implemented are as follows: <ul style="list-style-type: none"> <li>• Study of jaguar and prey populations using camera traps – San Diego Zoo</li> <li>• Management of</li> </ul> |

| Activity |  | 2017                                              | 2018 | 2019 | 2020                                                                | 2021                                                                                                                                                                                                                                                                 |
|----------|--|---------------------------------------------------|------|------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |  | (researcher)                                      |      |      | San Diego Zoo                                                       | taricaya turtle populations as a conservation measure against the irrational collection of their eggs.                                                                                                                                                               |
|          |  | The researches are conducted throughout the year. |      |      | The research is conducted throughout the year.<br>See Section 5.1.4 | <ul style="list-style-type: none"> <li>• Ecosystem health study through bird composition.</li> <li>• Study of canopy bridges to facilitate the passage of arboreal mammals</li> </ul> <p>The researches are conducted throughout the year.<br/>See Section 5.1.4</p> |

### 2.2.2 Baseline Reassessment (VCS, 3.2.6, 3.2.7)

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes ☒ No

### 2.2.3 Methodology Deviations (VCS, 3.20)

For this second Monitoring Report, a main deviation was introduced that resulted in a more conservative baseline and project emissions reductions.

It consisted in the readjustment of the spatial model for projecting future deforestation, following the indications of VM0015 v.1.1 Methodology for Avoided Unplanned Deforestation. The analysis was performed using TerrSet v.2020 software, under its Land Change Modeler (LCM) module. Because the historical reference period ran from 2007 to 2016, it was decided to use three images close to the beginning of the crediting period (2012, 2014, and 2016), since the deforestation rates between these intervals were more similar than those occurring in the initial years. The first two years were used for the calibration phase of the spatial factors, while the last year was used as a reference image to validate the results.

A model based on neural networks (Artificial Neural Networks, ANN) was generated, which is a process that establishes relationships between certain drivers or spatial factors with the LULC (Land Use Land Cover) classes and their derived transitions; these relationships are expressed through multiple combinations (linear or nonlinear) of the spatial factors, evaluating the best possible combination that allows predicting the behavior of the transition evaluated in the determined time. As a result, the process provides a set of transition potentials for each combination considered. The detailed steps describing the modelling and location of unplanned deforestation is detailed in Appendix 7.

Once this procedure was completed, the allocation of future deforestation was performed following Section 4.2 and 5.1 of VM0015 v1.1, instead of Sections 8.1.5.1, 8.1.5.3 and 8.1.5.4 of VM0006 v.2.2. In practice, Equations 37 from VM0006 v.2.2 was not used.

### 2.2.4 Minor Changes to Project Description (CCB Program Rules, 3.5.6)

Not applicable.

## 2.2.5 Project Description Deviations (VCS, 3.21; CCB Program Rules, 3.5.7 – 3.5.10)

### **Stakeholder engagement**

FENAMAD is an indigenous organization that advocates for the enforcement and respect of the rights of indigenous peoples in the department of Madre de Dios, including PIACI. However, there is no formal presence or on-the-ground actions by this organization within the project's area of influence. FENAMAD was identified as a stakeholder during the project's validation due to the organization's objectives in favor of indigenous peoples, however, its lack of presence has led the project proponent to collaborate with other institutions that promote the protection of the Madre de Dios Territorial Reserve (RTMDD) and the indigenous peoples living within it. As a result, the project proponent is a member of the Alto Purus National Park Management Committee (CGdPNAP), whose area of influence includes the RTMDD, which in turn is part of the project's area of influence. The Committee coordinates inter-institutional actions for the surveillance, control, and protection of PIACI territory, the conservation and promotion of natural resources, participatory management, and environmental education. The actions implemented in favor of the protection of PIACI are described in Table 4.5 of this document. Finally, the project proponent has decided to continue its actions for the protection of PIACI territory in collaboration with the Alto Purus National Park administration, together with the active members of the CGdPNAP, which they lead, and temporarily remove FENAMAD from the list of stakeholders until concrete actions can be taken with the organization.

### **Other Entities Involved in the Project**

Other entities have been involved in the project by providing technical support to the project proponent for the development of the 2020-2021 Monitoring Report (MR). The company "Paskay" was responsible for developing the Climate component, which helped to highlight the carbon credits generated by emission reduction efforts, while "ECO DEVELOPMENT GROUP S.A.C." contributed by assisting with the drafting of the technical report for the 2020-2021 MR, using information provided by the project proponent, who leads the field audit, resolution of observations, and project activities.

The methodology deviations implemented for the present monitoring period have impacted the validated baseline estimates, hence the new values are presented next. It is important to stress that the deviations do not impact the applicability of the methodology VM0006 v2.2 nor the appropriateness of the baseline scenario, and the alternative method provides more conservative results, as required in Sections 3.21 and 3.20 from VCS Standard 4.5, respectively.

## Change in the Project area extension

The initial project area had a total extension of 171,584.07 ha. However, it was necessary to update the project area so that it only represents the area of forest present at the project start date (at the end of the historical reference period). In this way, the deforestation and non-forest existing until the end of 2016 were removed, resulting in a corrected project area of 169,956.81 ha.

## Recalculation of the baseline deforestation rate for the reference region

On the other hand, the use of the VM0015 methodology v.1.1 implies an additional change at the conceptual level, based on the definition of the reference region. In this methodology, the reference region includes the project area and the leakage belt (section 1.1.1 "Reference Region"), so the calculation of the deforestation rate must be modified to include the existing deforestation in the other two areas (Project and leakage areas), which the VM0006 methodology v.2.2 excluded.

Thus, there is a change in the historical data, which modifies the beta regression and therefore the deforestation rate in the reference region. This calculation is detailed in Appendix 8. The results are shown in the following table.

**Table 2.13 Changes in deforestation rate in the reference region**

| Year | Original Deforestation rate in the reference region (ha/year) | Deforestation rate in the reference region (including project area and leakage belt) (ha/year) | Type of data                  |
|------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------|
| 2007 | 918.95                                                        | 927.63                                                                                         | Historical data               |
| 2008 | 2,447.12                                                      | 2,461.95                                                                                       |                               |
| 2009 | 913.22                                                        | 918.63                                                                                         |                               |
| 2010 | 1,557.00                                                      | 1,602.36                                                                                       |                               |
| 2011 | 1,748.08                                                      | 1,765.71                                                                                       |                               |
| 2012 | 1,084.61                                                      | 1,157.76                                                                                       |                               |
| 2013 | 1,854.78                                                      | 1,984.86                                                                                       |                               |
| 2014 | 2,558.32                                                      | 2,753.01                                                                                       |                               |
| 2015 | 2,991.64                                                      | 3,032.64                                                                                       |                               |
| 2016 | 3,545.06                                                      | 3,802.23                                                                                       |                               |
| 2017 | 3,486.94                                                      | 3,883.64                                                                                       | Beta regression model results |
| 2018 | 3,929.28                                                      | 4,416.28                                                                                       |                               |
| 2019 | 4,408.48                                                      | 5,003.30                                                                                       |                               |
| 2020 | 4,925.62                                                      | 5,648.68                                                                                       |                               |
| 2021 | 5,480.50                                                      | 6,355.38                                                                                       |                               |
| 2022 | 6,071.66                                                      | 7,125.28                                                                                       |                               |
| 2023 | 6,696.27                                                      | 7,959.03                                                                                       |                               |

| Year | Original Deforestation rate in the reference region (ha/year) | Deforestation rate in the reference region (including project area and leakage belt) (ha/year) | Type of data |
|------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------|
| 2024 | 7,350.02                                                      | 8,855.79                                                                                       |              |
| 2025 | 8,027.05                                                      | 9,813.07                                                                                       |              |
| 2026 | 8,719.98                                                      | 10,826.52                                                                                      |              |

Once the deforestation rate in the reference region is re-estimated, the existing deforestation in the project area and the leakage belt is extrapolated. According to VM0015 methodology v.1.1, the estimation of this rate is done by estimating the potential risk over the entire reference region (which includes the project area and the leakage belt), with the previously calculated rate. The risk estimation is generated by modeling the location of unplanned deforestation (see next section for more details). Subsequently, an intersection is made with the polygons representing the project area and the leakage belt, and the annual baseline risk is estimated. This differs from the VM0006 methodology v.2.2 calculations, where the deforestation rate is calculated by means of area ratios.

Thus, the table below shows the comparison between the baseline deforestation rate calculations for both the project area and the leakage belt by the two methodological approaches.

**Table 2.14 Changes in deforestation rate in Project and Leakage Areas**

| Year | Modeled deforestation rate in the Project Area (using VM0006 specifications) | Modeled deforestation rate in the Project Area (using VM0015 specifications) | Modeled deforestation rate in the Leakage Belt (using VM0006 specifications) | Modeled deforestation rate in the Leakage Belt (using VM0015 specifications) |
|------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 2017 | 2,069.37                                                                     | 129.51                                                                       | 1,224.27                                                                     | 565.20                                                                       |
| 2018 | 2,331.90                                                                     | 491.22                                                                       | 1,379.61                                                                     | 857.52                                                                       |
| 2019 | 2,616.21                                                                     | 621.27                                                                       | 1,547.82                                                                     | 1,076.13                                                                     |
| 2020 | 2,923.11                                                                     | 909.45                                                                       | 1,729.44                                                                     | 1,198.71                                                                     |
| 2021 | 3,252.42                                                                     | 983.61                                                                       | 1,924.20                                                                     | 1,494.72                                                                     |
| 2022 | 3,603.24                                                                     | 1,129.95                                                                     | 2,131.83                                                                     | 1,670.13                                                                     |
| 2023 | 3,973.86                                                                     | 1,238.67                                                                     | 2,351.07                                                                     | 1,927.71                                                                     |
| 2021 | 4,361.85                                                                     | 1,470.96                                                                     | 2,580.66                                                                     | 2,072.07                                                                     |
| 2025 | 4,763.61                                                                     | 1,644.12                                                                     | 2,818.35                                                                     | 2,349.72                                                                     |
| 2026 | 5,174.73                                                                     | 1,907.64                                                                     | 3,061.53                                                                     | 2,482.83                                                                     |

#### Change in the baseline emissions

Given the proposed changes, there was a new estimation of baseline emissions, detailed in the following table.

**Table 2.15 Readjusted baseline emissions**

| Baseline emissions or removals (tCO <sub>2</sub> e) | 1: ΔGHG from avoided deforestation excluding ANR and harvest areas | 7: ΔGHG from changes in long-lived wood products | 10: ΔGHG from avoided deforestation from areas under harvest | Total        |
|-----------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------|--------------|
| 2017                                                | -64,516.5                                                          | 6,234.8                                          | -4,704.8                                                     | -62,986.4    |
| 2018                                                | -226,483.8                                                         | 3,533.8                                          | -36,066.4                                                    | -259,016.4   |
| 2019                                                | -308,438.6                                                         | 5,971.5                                          | -23,621.5                                                    | -326,088.6   |
| 2020                                                | -474,115.5                                                         | 2,239.1                                          | -11,972.8                                                    | -483,849.2   |
| 2021                                                | -492,255.3                                                         | 6,571.8                                          | -33,470.5                                                    | -519,153.9   |
| 2022                                                | -559,882.6                                                         | 4,910.2                                          | -44,059.8                                                    | -599,032.2   |
| 2023                                                | -613,752.6                                                         | 4,910.2                                          | -48,299.1                                                    | -657,141.5   |
| 2024                                                | -728,850.7                                                         | 4,910.2                                          | -57,356.8                                                    | -781,297.3   |
| 2025                                                | -814,650.3                                                         | 4,910.2                                          | -64,108.7                                                    | -873,848.9   |
| 2026                                                | -945,222.7                                                         | 4,910.2                                          | -74,384.1                                                    | -1,014,696.6 |
| Total                                               | -5,228,168.7                                                       | 49,102.1                                         | -398,044.4                                                   | -5,577,111.0 |

Tables 10, 11.b and 11.c of Methodology VM0015 v.1.1 section 5.1 were included, in order to summarize the changes and comply with the requirements.

**Table 2.16 Annual areas deforested per forest class within the project area in the baseline case (baseline activity data per forest class)**

| Project year | Area deforested per forest class within the project area (ha) | Total baseline deforestation in the project area |                        |
|--------------|---------------------------------------------------------------|--------------------------------------------------|------------------------|
|              |                                                               | ABSLPA Annual (ha)                               | ABSLPA cumulative (ha) |
| 2017         | 129.51                                                        | 129.51                                           | 129.51                 |
| 2018         | 491.22                                                        | 491.22                                           | 620.73                 |
| 2019         | 621.27                                                        | 621.27                                           | 1,242.00               |
| 2020         | 909.45                                                        | 909.45                                           | 2,151.45               |
| 2021         | 983.61                                                        | 983.61                                           | 3,135.06               |
| 2022         | 1,129.95                                                      | 1,129.95                                         | 4,265.01               |
| 2023         | 1,238.67                                                      | 1,238.67                                         | 5,503.68               |
| 2024         | 1,470.96                                                      | 1,470.96                                         | 6,974.64               |
| 2025         | 1,644.12                                                      | 1,644.12                                         | 8,618.76               |
| 2026         | 1,907.64                                                      | 1,907.64                                         | 10,526.40              |

|              |           |           |  |
|--------------|-----------|-----------|--|
| <b>Total</b> | 10,526.40 | 10,526.40 |  |
|--------------|-----------|-----------|--|

**Table 2.17 Annual areas deforested per forest class within the leakage belt in the baseline case (baseline activity data per forest class)**

| Project year | Area deforested per forest class within the project area (ha) | Total baseline deforestation in the project area |                        |
|--------------|---------------------------------------------------------------|--------------------------------------------------|------------------------|
|              |                                                               | ABSLLKt Annual (ha)                              | ABSLLK cumulative (ha) |
| <b>2017</b>  | 565.2                                                         | 565.2                                            | 565.2                  |
| <b>2018</b>  | 857.52                                                        | 857.52                                           | 1,422.72               |
| <b>2019</b>  | 1,076.13                                                      | 1,076.13                                         | 2,498.85               |
| <b>2020</b>  | 1,198.71                                                      | 1,198.71                                         | 3,697.56               |
| <b>2021</b>  | 1,494.72                                                      | 1,494.72                                         | 5,192.28               |
| <b>2022</b>  | 1,670.13                                                      | 1,670.13                                         | 6,862.41               |
| <b>2023</b>  | 1,927.71                                                      | 1,927.71                                         | 8,790.12               |
| <b>2024</b>  | 2,072.07                                                      | 2,072.07                                         | 10,862.19              |
| <b>2025</b>  | 2,349.72                                                      | 2,349.72                                         | 13,211.91              |
| <b>2026</b>  | 2,482.83                                                      | 2,482.83                                         | 15,694.74              |
| <b>Total</b> | 15,694.74                                                     | 15,694.74                                        |                        |

**Table 2.18 List of variables, maps, and factor maps**

| Factor Map |                      | Source                                                     | Variable represented |                                                        | Meaning of the categories or pixel value |                     | Other maps and variables used to create the factor map |           | Algorithm or equation used |
|------------|----------------------|------------------------------------------------------------|----------------------|--------------------------------------------------------|------------------------------------------|---------------------|--------------------------------------------------------|-----------|----------------------------|
| ID         | File Name            |                                                            | Unit                 | Description                                            | Range                                    | Meaning             | ID                                                     | File Name |                            |
| 1          | DIST_CROPS_05_16     | Map of Land Change /Land Use, GEOBOSQUES from 2005 to 2016 | m                    | Distance to croplands                                  | 30 – 10,000                              | Least Cost distance | N/A                                                    | N/A       | Euclidean distance         |
| 2          | DIST_CROPS_05_16_LOG |                                                            | Log(m)               | Logarithmic transformation of distance to croplands    | 0 – 12                                   | Least Cost distance | N/A                                                    | N/A       | Log(Euclidean distance)    |
| 3          | DIST_GRASS_05_16     |                                                            | m                    | Distance to grasslands                                 | 30 – 8,000                               | Least Cost distance | N/A                                                    | N/A       | Euclidean distance         |
| 4          | DIST_GRASS_05_16_LOG |                                                            | Log(m)               | Logarithmic transformation of distance to grasslands   | 0 – 12                                   | Least Cost distance | N/A                                                    | N/A       | Log(Euclidean distance)    |
| 5          | DIST_RIVERS          |                                                            | m                    | Distance to water bodies                               | 0 – 30,000                               | Least Cost distance | N/A                                                    | N/A       | Euclidean distance         |
| 6          | DIST_RIVERS_LOG      |                                                            | Log(m)               | Logarithmic transformation of distance to water bodies | 0 – 12                                   | Least Cost distance | N/A                                                    | N/A       | Log(Euclidean distance)    |
| 7          | DIST_ROADS_MAIN      | Peruvian Ministry of Transport and Communications          | m                    | Distance to main roads (Interoceanic Highway)          | 30 – 106,057                             | Least Cost distance | N/A                                                    | N/A       | Euclidean distance         |
| 8          | DIST_ROADS_MAIN_LOG  |                                                            | Log(m)               | Logarithmic transformation of distance to main roads   | 0 – 12                                   | Least Cost distance | N/A                                                    | N/A       | Log(Euclidean distance)    |

| Factor Map |                    | Source                                                     | Variable represented |                                                           | Meaning of the categories or pixel value |                                   | Other maps and variables used to create the factor map |           | Algorithm or equation used |
|------------|--------------------|------------------------------------------------------------|----------------------|-----------------------------------------------------------|------------------------------------------|-----------------------------------|--------------------------------------------------------|-----------|----------------------------|
| ID         | File Name          |                                                            | Unit                 | Description                                               | Range                                    | Meaning                           | ID                                                     | File Name |                            |
| 9          | DIST_ROADS_SEC     |                                                            | m                    | Distance to secondary (departmental) roads                | 0 – 25,000                               | Least Cost distance               | N/A                                                    | N/A       | Euclidean distance         |
| 10         | DIST_ROADS_SEC_LOG |                                                            | Log(m)               | Logarithmic transformation of distance to secondary roads | 0 – 12                                   | Least Cost distance               | N/A                                                    | N/A       | Log(Euclidean distance)    |
| 11         | DIST_SET_05_16     | Map of Land Change /Land Use, GEOBOSQUES from 2005 to 2016 | m                    | Distance to settlements                                   | 30 – 20,000                              | Least Cost distance               | N/A                                                    | N/A       | Euclidean distance         |
| 12         | DIST_SET_05_16_LOG |                                                            | Log(m)               | Logarithmic transformation of distance to settlements     | 0 – 12                                   | Least Cost distance               | N/A                                                    | N/A       | Log(Euclidean distance)    |
| 13         | DEM_3              | SRTM 90m Digital Elevation Database.                       | m                    | Altitude                                                  | 0 – 500                                  | Punctual elevation data per pixel | N/A                                                    | N/A       | N/A                        |

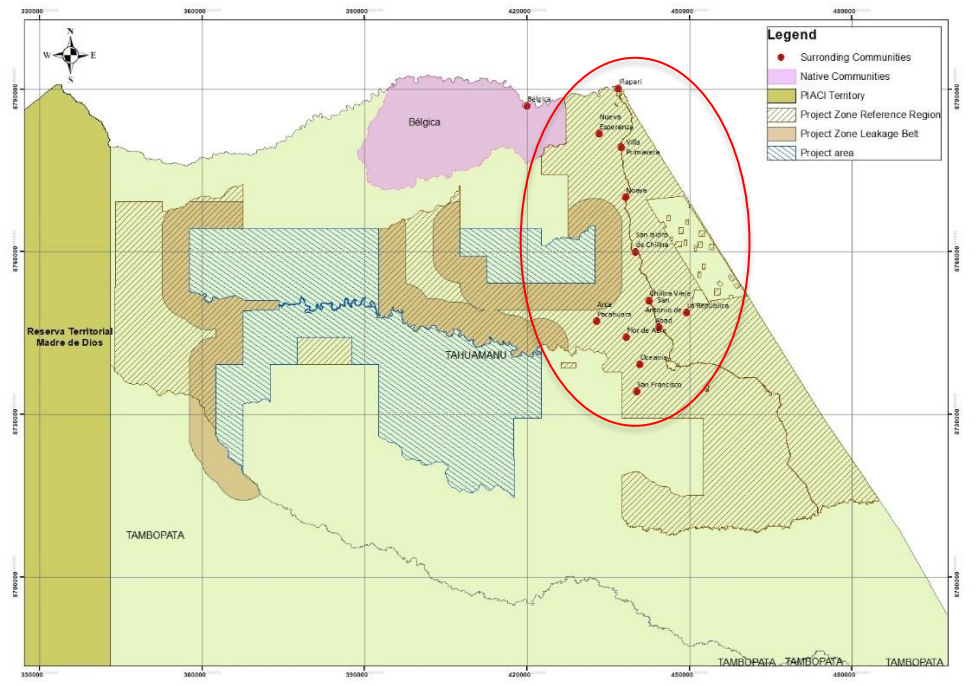
### 2.2.6 Grouped Projects (VCS, 3.6; CCB, G1.13-G1.15, G4.1)

This is not a grouped project.

## 2.2.7 Risks to the Project (CCB, G1.10)

**Table 2.19 Identify Risk**

| Identify Risk                                                                      | Potential impact of risk on climate, community and/or biodiversity benefits                                      | Actions implemented to mitigate the risk. Leakage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fires cannot be controlled, and enter in the project area</b>                   | Forest fires generate GHG emissions negatively affecting the climate benefits of the project                     | <p>Forest fires are still frequent as a method to clear areas for future agriculture purposes. Project Proponent forbids burns within project area.</p> <p>Satellite monitoring and early warning (GeoSERFOR):<br/>           2 fire scars were recorded in the – leakage in 2021, at coordinates.<br/>           X: 433946 Y: 8758019<br/>           X: 429083 Y: 8751198<br/>           The warning is a total of two areas. The first is 13.89 and 54.37 ha, 3.08 and 1.28 km from the project area, respectively. There is no major risk.<br/>           To train MADERACRE SAC Company staff, involving them in the preparation for the prevention of forest fires due to the vulnerability that the region presents to eventual events of this type, affecting all the surrounding areas<br/>           Company personnel were given talks on firefighting techniques –<br/>           Cap. Informe N°07-2020-SSO<br/>           Informe N° 017-2020 – MECM<br/>           Reporte N°006 -BQE-2021-SSO.<br/>           Reporte N°003-BQE-2021-SSO</p> |
| <b>Invasion of the project area by residents of towns and adjacent communities</b> | Forest areas may be substituted by agrarian areas, reducing the climate and biodiversity benefits of the project | <p>The action implemented to mitigate the risk of invasions in the project area was the guarding and monitoring through river and land patrols in the highest-risk sectors located on the eastern side of the project, as shown in the figure below. This area has seen the development of agricultural economic activities due to access to the main road that connects the department. Furthermore, in Table 5.1, critical zones have been identified, where the progression of deforestation represents a high risk for the project.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Identify Risk                                                                                           | Potential impact of risk on climate, community and/or biodiversity benefits                                      | Actions implemented to mitigate the risk. Leakage                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                          |
| Increased land use change areas in project zone: leakage                                                | Forest areas may be substituted by agrarian areas, reducing the climate and biodiversity benefits of the project | Recognition of risk areas in the project area: leakage to determine sustainable projects and environmental education. Risk areas have been identified for recognition and implementation of the first actions in these areas with carbon sales through projects to be developed with the communities.                                                                                                                                                                       |
| Productive activities are not enough attractive to change the pattern of land use of agrarian neighbors | Forest areas may be substituted by agrarian areas, reducing the climate benefits of the project                  | The risk is still threatening the project zone and has deepened with newcomers and increasing corn demand from local chicken farms or other sources of demand for agricultural and livestock products. Project still does not access to carbon incomes to implement mitigation activities. Meanwhile, the project is focused on ensure forest consolidated integrity and work with surrounding communities through the Consultative Committee. In addition, during 2020 and |

| Identify Risk                                                                                                                                                                       | Potential impact of risk on climate, community and/or biodiversity benefits  | Actions implemented to mitigate the risk. Leakage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>New migrants that are not part of the original beneficiaries of the REDD+ project will become new deforestation drivers as they do not participate in the project activities</b> |                                                                              | 2021, public meetings were held that involved sharing information about the importance of sustainable forest management in order to continue raising awareness about forest resources.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Internal conflicts within local settlements</b>                                                                                                                                  | Project activities may be difficult to implement with this type of conflicts | <p>During this period, no internal conflicts have been reported within local settlements. The Project has protocols and procedures to adequately address possible social conflicts.</p> <p>Note: 'Local settlements' refer to the geographic area where a population is established, which is usually organized around natural resources, cultural traditions, or local economic activities. The description of the local settlements of the project is found in section 4.1.1 of the PD. It is important to note that these groups are located in the areas surrounding the project, but not within it.</p> |

### 2.2.8 Benefit Permanence (CCB, G1.11)

During the current monitoring period (pre-carbon incomes), the main activities developed by project proponent are associated with custody and surveillance, education, diffusion and socialization activities for surrounding communities, mainly Belgica Native Community and also a permanent dialogue and communication with the Provincial Municipality of Tahuamanu, being remarkable the signature of a partnership to implement joint activities for the development of the project zone.

#### • Climate

During the period and throughout the life of the project, education and training activities are carried out in the communities, so that the climate benefits will extend beyond the life of the project. Raising awareness among future generations will prolong the management and care of the forest, which translates into carbon sequestration and fewer emissions into the atmosphere.

#### • Community

During the current monitoring period, which corresponds to a period prior to the income from carbon sales, the main activities in the social component developed by the project proponent are associated with education, health and communication and information for the surrounding communities and stakeholders such as the Belgica Native Community and the Provincial Municipality of Tahuamanu, being these the benefits that remain in the social factor of the project. These measures are:

- Communication and Information Plan where Informative Workshops and Meetings with the Consultative Committee are developed with the surrounding communities.
- Community Development Program with health and education support programs in Iñapari.
- Training in sustainable forest management, certifications and environmental issues for project workers.
- Actions that collaborate with the protection and good practices in relation to PIACI populations.
- Specific studies to measure degradation potential (PRA).

See item 04, which shows the detailed actions on the aforementioned activities in education, health and communications, with which the benefits in climate, communities and biodiversity will be beyond the life of the project.

#### • Biodiversity

During the period and life of the project, education and training actions for communities will help raise awareness of the flora and fauna and the benefits of maintaining biodiversity. Learning from generation to generation will go beyond the life of the project. Awareness of endangered animals and management of forest species will extend the care and protection of the forest over time. In addition, all biodiversity maintenance actions (forest management, HCV maintenance, etc.) seek permanent benefits for this and future generations.

## 2.3 Stakeholder Engagement & Safeguards

### 2.3.1 Stakeholder Identification (VCS, 3.18, 3.19; CCB, G1.5)

The project does not identify any change or variation of stakeholders, community groups or communities during this vintage.

### 2.3.2 Stakeholder Access to Project Documents (VCS, 3.18, 3.19; CCB, G3.1)

Access to the project documents is through the Spanish language, the official language of the country. Regarding the Native Community of Bélgica, the entirety of its population speaks Spanish in their daily lives and no longer speaks their native language<sup>15</sup>.

See Appendix 1 “Plan de comunicaciones – Responsabilidad Social. 2021”.

In 2020 and 2021, information about the project was accessible to communities and stakeholders. The PD and Project Design follow-up reports were available on the company's website (<https://maderacre.com/sostenibilidad/>), freely accessible to all and have been shared with stakeholders through letters, and through citizen participation workshops and the Consultation Committee.

Additionally, from 2020, information on the phases of the process (including the validation and verification audit) was included. This web space was socialized during the following events:

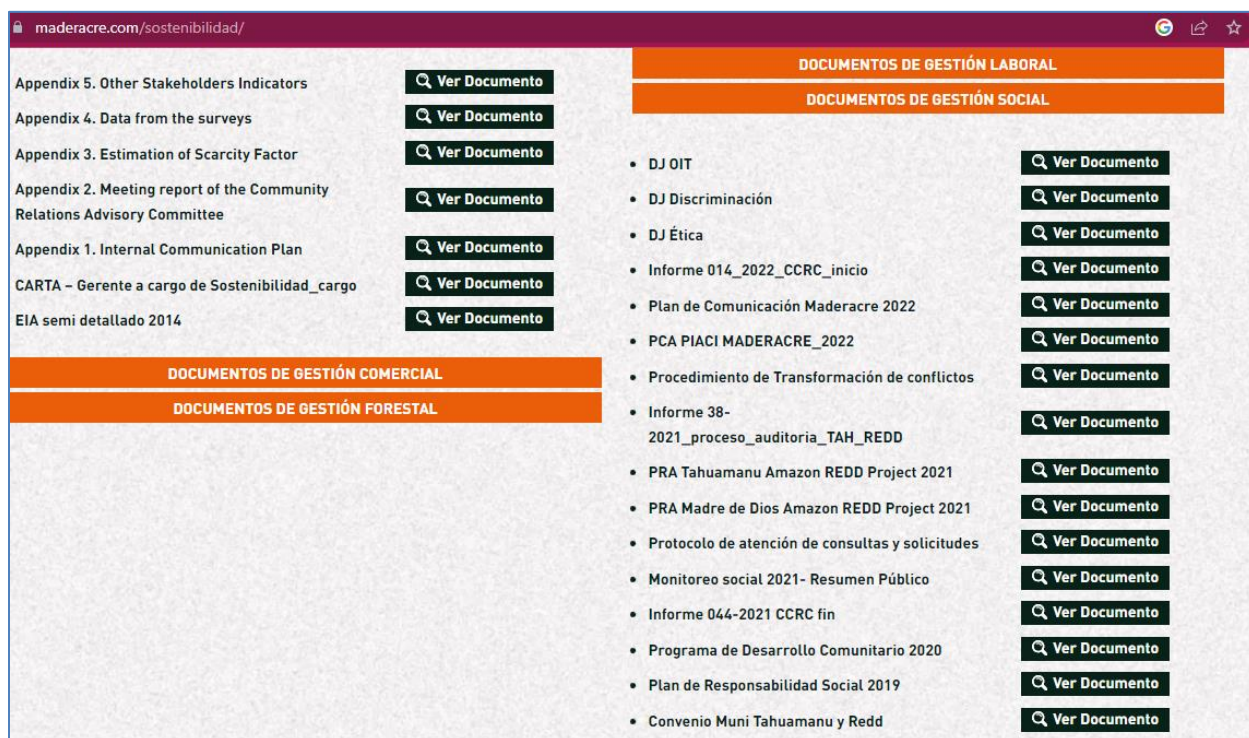
- 2020 zafra kick-off workshop held on Jun 25, 2020, in which the general scope of the Tahuamanu REDD is presented.
- End of harvest 2020 Citizen Participation Workshop held on December 10, 2020, where the 2020 forestry operations and the Tahuamanu project were presented.
- Consultative Committee for the beginning of the harvest held on June 25, 2020.
- End of harvest Consultative Committee held on December 10, 2020.

These meetings were adequately publicized in the context of the Pandemic by COVID 19 in 2020 and then for face-to-face attendance with the prevention and social distancing measures established by the Government of Peru. The invitation letters included the link to the web page to be able to consult the documentation directly. For the year 2021 we have the following:

---

<sup>15</sup> Website: <https://bdpi.cultura.gob.pe/index.php/localidades/belgica>

- First Workshop of the year 2021 held on February 26, 2021, to present the operations of the year 2021
- First Consultative Committee of the year 2021 held on February 26, 2021.
- Second Participatory Workshop of 2021 held on December 10, 2021, where the results of the year 2021 are presented.
- Second Consultative Committee held on December 10, 2021.



**Figure 2.3 Evidence of web page**

Project design PD and Monitoring reports are already available in the company webpage (<https://verra.org/programs/verified-carbon-standard/vcs-program-details/>), with free access for everybody and have been shared with stakeholders through letters, radio advertisements and through citizen participation workshops and the Consultation Committee, as presented in the verification process.

During the project document design, the project was communicated to local stakeholders since 2018 to 2021, detailing the main components of the project. The documents from this verification period will also be shared on the website.

Through these meetings, the main scope and nature of the new REDD project was explained in a local language. These meetings were publicized appropriately to guarantee a high participation of local leaders and authorities. In the invitation letters, a link to the web page was include so the documentation could be reviewed directly.

### 2.3.3 Dissemination of Summary Project Documents (VCS, 3.18, 3.19; CCB, G3.1)

Dissemination of summary project documents is through the Spanish language, the official language of the country. Regarding the Native Community of Bélgica, the entirety of its population speaks Spanish in their daily lives and no longer speaks their native language.

During the project validation process, public summaries of the project operations in 2020 and 2021 were prepared, considering the main social results and including complementary dissemination material, such as images that were shown among the main stakeholders of the project. On the other hand, informative dissemination workshops were held for collaborators in which summary material and/or dissemination brochures were also distributed.

The Public Summary of the project monitoring results were disseminated through letters and copies of the Project monitoring. Disseminated to 13 stakeholders respect monitoring 2020-2021

During the validation process of the project, public summaries of the PD. The monitoring results, as well as complementary dissemination material such as brochures were prepared and distributed to the main project stakeholders.

Diffusion talks are held for collaborators where summary material and / or diffusion brochures are also distributed.

Evidence of the detailed activities can be viewed in report folders:

- Community Support > 2020\_Community > Communication Stakeholders
- Community Support > 2021\_Community > Communication Stakeholders

**Maderacre**

"Año del Fortalecimiento de la Soberanía Nacional"  
Madre de Dios Capital de la Biodiversidad del Perú

**CARGO**

Iñapari, 28 de marzo del 2022

**CARTA MULTIPLE N°001-2022-MADRACRE-SAC/RS/MECM/I-TAH-MDD**

Señor (a):

ASUNTO: Resumen Público de Monitoreo Social 2021.  
Resumen Público de Monitoreo Ambiental y Forestal 2021.

Es grato dirigirme a usted para saludarlo muy cordialmente a nombre de la empresa MADERACRE S.A.C., para poner a su alcance el **Resumen Público de Monitoreo Social 2021** y el **Resumen Público del Monitoreo Ambiental y Forestal del 2021**; en este documento usted podrá encontrar el resultado de la evaluación que lleva a cabo nuestra representada en el marco de implementación del Plan de Manejo de nuestra concesión forestal, incluyendo el resultado del impacto ambiental que causan nuestras operaciones en términos de degradación del bosque, así como los impactos sociales de nuestras operaciones.

Usted podrá acceder a ambos reportes visitando nuestra página web en la sección de "SOSTENIBILIDAD" (<http://maderacre.com/sostenibilidad/>) en donde encontrara el link a estos y otros documentos de gestión de acceso público, a su vez se le hace entrega de una copia de dichos documentos.

De requerir mayor información, le agradeceremos comunicarse con la Ing. Miriam Chupan Minaya (Coordinadora Social) al número 985582143 o al correo electrónico [responsabilidadsocial@maderacre.com](mailto:responsabilidadsocial@maderacre.com).

Sin otro en particular me despido de usted no sin antes manifestarle las muestras de mi especial consideración y estima personal.

Atentamente

**Nelson Nilton Kroll Kohel**  
Gerente Regional  
MADERACRE S.A.C.

Adjunto: Resumen Público de Monitoreo Social 2021  
Resumen Público de Monitoreo Ambiental y Forestal 2021

**CATAHUA S.A.C. RECIBIDO**  
Reg. N° 01 Fecha 01/04/22 Hora 14:47

**COMUNIDAD NATIVA TAUAMAYU INAPARI**  
RECEPCION  
Fecha 01/04/2022 Hora 2:30 pm

**MUNICIPALIDAD PROVINCIAL TAUAMAYU INAPARI**  
OFICINA DE TRÁMITE  
EXAMENADO Y ARCHIVO  
SUB GERENCIA DE SECRETARÍA GENERAL  
RECIBIDO  
01 ABR 2022  
EXP. N° 839 Hora 11:52  
FOLIO 20 ANEXOS  
La Recepcion Del documento No Significa Conformidad

Figure 2.4 Sample

### 2.3.4 Informational Meetings with Stakeholders (VCS, 3.18, 3.19; CCB, G3.1)

Information meetings is through the Spanish language, the official language of the country. Regarding the Native Community of Bélgica, the entirety of its population speaks Spanish in their daily lives and no longer speaks their native language.

Information processes were developed virtually and in person, due to the social distancing measures that had to be complied within 2020 due to the Pandemic caused by SARS-CoV - 2 or better known as COVID 19.

**Table 2.20 Informational meeting with stakeholders 2020<sup>16</sup>**

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Shared content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Stakeholders and/or communities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Form of invitation                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>First Participatory Start-up Workshop for Operations 2020</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |
| <b>The kick-off Citizen Engagement Workshop presents activities from the previous year and activities to be developed in the current year. The 2020 kick-off workshop in particular followed a different methodology due to the preventive measures dictated by the government in the face of the SARS CoV 2 or COVID -19 pandemic. In that sense, the dissemination of information was through letters and informative material, since public meetings were restricted to avoid crowds of people.</b> | <ul style="list-style-type: none"> <li>• Presentation of the start of forestry operations for 2020.</li> <li>• Presentation of social responsibility management documents.</li> <li>• Presentation of a summary of support and social activities for 2019.</li> <li>• The start of forest operations was reported, with the implementation of the protocols established by the regulations for the surveillance, prevention, and control of the pandemic caused by Covid-19, having the corresponding authorizations</li> <li>• Information was provided on Tahuamanu Amazon Redd Project, informing the main features, highlighting the importance of its implementation.</li> </ul> | <p>The letter was socialized to 17 informed stakeholders: The letter was delivered via e-mail to 04 institutions: I.E.B.R. Secundaria "Iñapari" and I.E. N° 53003 "Elena Bertha, I.E. N° 52056 - Noaya and Consolidad Maderera Río Yaveryja.</p> <p>The physical delivery of the letter was made to 13 institutions which are: Provincial Municipality of Tahuamanu, Iñapari Health Post, Regional Forestry and Wildlife Directorate, National Police of Peru, Iñapari Agrarian Office, Santa Teresa Forest Agroindustry, Tahuamanu Canales, National Agency of Fisheries Health, Public Ministry, Belgica Native Community, Association of Moradores La Colonia, New Iñapari Association and Mothers Club La Colonia.</p> | Due to the Pandemic context, no face-to-face public meeting was held and a remote information process was developed through the delivery of virtual and physical information material. |
| <b>2020 End of Operations Participatory Workshop</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |
| <b>As with the Citizen Participation Workshop at the beginning of operations, the end-of-year workshop was not held in person, in compliance with the prevention measures dictated by the government in the face of the COVID 19 pandemic. It was socialized to 14 stakeholders. The letter and informative material presented the following information:</b>                                                                                                                                          | <ul style="list-style-type: none"> <li>• Presentation of closing of forestry operations 2020.</li> <li>• Presentation of social responsibility management documents.</li> <li>• Presentation of summary of support and social activities 2020.</li> <li>• Information was provided on the Tahuamanu Amazon Redd Project, informing the main characteristics, highlighting the importance of its implementation.</li> </ul>                                                                                                                                                                                                                                                            | <p>The letter was socialized to 15 stakeholders: The letter was delivered via email to 04 institutions: I.E.B.R. Secundaria "Iñapari" and I.E. N° 53003 "Elena Bertha, I.E. N° 52056 - Noaya, Consolidad Maderera Río Yaveryja and Consorcio Maderera Canales Tahuamanu.</p> <p>The physical delivery of the letter was made to 10 institutions which are: Provincial Municipality of Tahuamanu, Iñapari Health Post, Regional Forestry and Wildlife Directorate, Peruvian National Police, Iñapari Agrarian Office,</p>                                                                                                                                                                                                   | Due to the Pandemic context, no face-to-face public meeting was held and a remote information process was developed through the delivery of virtual and physical                       |

<sup>16</sup> Community support > 2020\_Community > Communication Stakeholders; Community support > 2020\_Community > f. Monitoring  
Community support > 2021\_Community > Communication Stakeholders; Community support > 2021\_Community > f. Monitoring

|                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | National Agrarian Health Service, Belgica Native Community, La Colonia Association of Residents, Nuevo Iñapari Association and La Colonia Mothers' Club.                                                                                                                                                                                                                                    | information material.                                                                                                                                                                         |
| <b>First Meeting of the 2020 Advisory Committee, Held June 25, 2020</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                               |
| <p>Information was provided on the Tahuamanu Amazon Redd Project, informing on its main characteristics and highlighting the importance of its implementation.</p> <p>The results and metrics from the previous period are presented, and the planned activities for the current period are announced, as well as other relevant aspects that deserve to be disseminated</p> | <ul style="list-style-type: none"> <li>• Presentation of the start of forestry operations for 2020.</li> <li>• Presentation of social responsibility management document.</li> <li>• Presentation of summary of support and social activities 2019</li> <li>• Information was provided on the Tahuamanu Amazon Redd Project, informing on its main characteristics and highlighting the importance of its implementation.</li> <li>• The agreements of the Advisory Committee to prioritize health and education axes are maintained.</li> </ul>         | <p>The letter was delivered via e-mail to 02 members of the Advisory Committee, namely: I.E.B.R. Secundaria "iñapari" and I.E. N° 53003 "Elena Bertha,</p> <p>- The letter was physically delivered to 04 members of the Advisory Committee which are: Provincial Municipality of Tahuamanu, Belgica Native Community, Association of Moradores La Colonia and Mothers Club La Colonia.</p> | <p>Due to the Pandemic context, no face-to-face public meeting was held and a remote information process was developed through the delivery of virtual and physical information material.</p> |
| <b>The second meeting of the 2020 Advisory Committee was held on December 10, 2020.</b>                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                               |
| <p>Information was provided on the Tahuamanu Amazon Redd Project, informing on its main characteristics and highlighting the importance of its implementation.</p> <p>Comments and preliminary results are presented on the actions implemented in the current period, as well as other relevant aspects that deserve to be disseminated.</p>                                | <ul style="list-style-type: none"> <li>• Presentation of closing of forestry operations 2020.</li> <li>• Presentation of social responsibility management documents.</li> <li>• Presentation of summary of support and social activities 2020.</li> <li>• Information was provided on the Tahuamanu Amazon Redd Project, informing the main characteristics, highlighting the importance of its implementation.</li> <li>• Faced with the Covid-19 situation, MADERACRE SAC continued to prioritize the health axis as part of its commitment</li> </ul> | <p>The letter was delivered via e-mail to 02 members of the Advisory Committee, namely: I.E.B.R. Secundaria "iñapari" and I.E. N° 53003 "Elena Bertha,</p> <p>The letter was physically delivered to 04 members of the Advisory Committee which are: Provincial Municipality of Tahuamanu, Belgica Native Community, Association of Moradores La Colonia and Mothers Club La Colonia.</p>   | <p>Due to the Pandemic context, no face-to-face public meeting was held and a remote information process was developed through the delivery of virtual and physical information material.</p> |

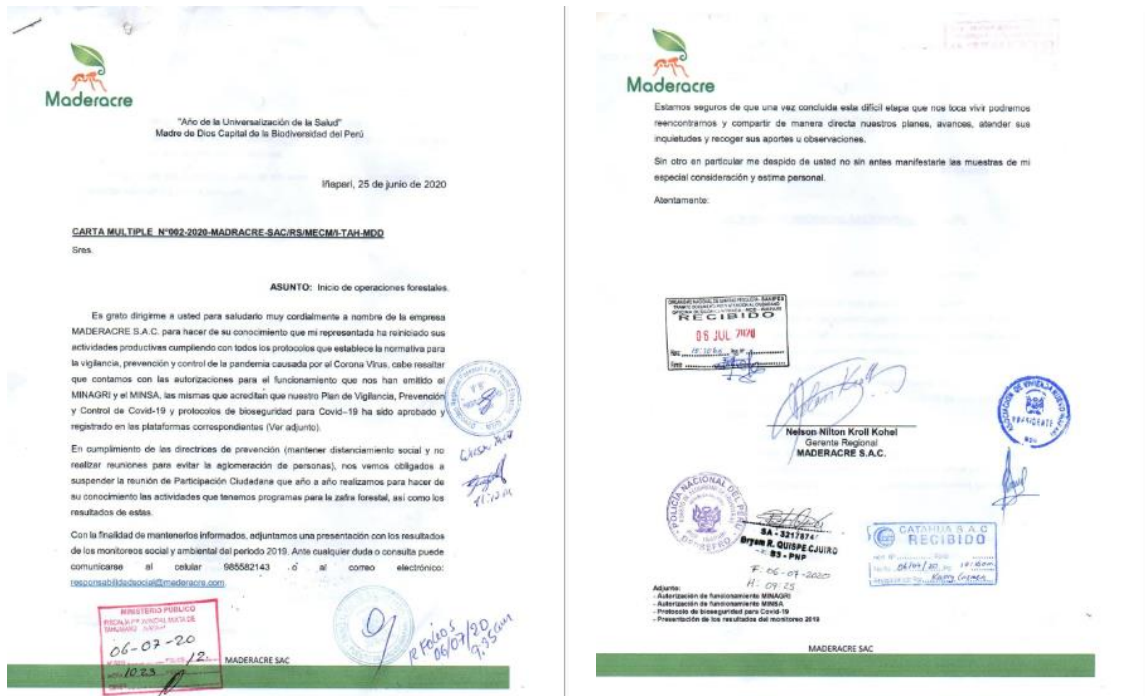


Figure 2.5 Multiple chart

## Tahuamanu Amazon REDD Project



- Proyecto Tahuamanu Amazon REDD Project desarrollado sobre una superficie de aproximadamente 172 mil Has.
- Proyecto en preparativos para ser certificado por el Verified Carbon Standard (VCS) y el Climate Community and Biodiversity (CCB).
- Ingresos complementarios que financian la ejecución del proyecto así como el fortalecimiento del sistema de custodia y vigilancia del área.
- Cumple un rol fundamental como área de amortiguamiento de la RT MDD donde habitan poblaciones PIACI y el PN Alto Purús.
- Junto con el MDD Amazon REDD Project, la RT MDD, el PN Alto Purús y el PN del Manu, conforma un corredor de conservación binacional.



Figure 2.6 Tahuamanu Amazon REDD Project

For the year 2021 we have the following:

**Table 2.21 Informational meeting with stakeholders 2021<sup>17</sup>**

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Shared content                                                                                                                                                                                                                                                                                                                                                                                                                   | Stakeholders and/or communities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021 Start-up Participatory Workshop, February 26, 2021.<br>Form of Invitation: Letters and telephone calls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>A presentation was made, explaining the main characteristics of the project, highlighting the importance of its implementation and mentioning its objectives from a climatic, community and environmental perspective. Information was provided on the main costs of project implementation, as well as the risks to which the project is subject and what would happen in a scenario without the project. It was informed that the project must go through a validation and verification process and that it was likely that the auditors would require a public consultation as part of the process.</b></p>                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• Presentation of the start of forestry operations for 2021.</li> <li>• Presentation of social responsibility management documents.</li> <li>• Presentation of summary of support and social activities 2020.</li> <li>• Information was provided on the Tahuamanu Amazon Redd Project, informing the main characteristics, highlighting the importance of its implementation.</li> </ul> | <p>17 stakeholders: Milagros López Cardozo (Iñapari Mothers' Club); Konnye Pérez Yuyarima and Guillermo Vila Saldaña (Maderera Rio Yaveryja); Kathy Martínez Rojas (MDD Redd Projects); Erika Suarez Ccalluchi (Belgica Native Community); Melissa Daza Acipal (Canales Tahuamanu Company); Irene Garbozo Sarmiento, Misael Tenazoa Barrera and José Andrade Chujandama (Asociación de Vivienda Nuevo Iñapari); Isaac Quintanilla de Villa Primavera, Alexander Flores U. (Iñapari Agrarian Office); Ricardo Huacayna Ramos from San Isidro de Chilina; Katherine Sandoval and Carola Gallarreta (Provincial Municipality of Tahuamanu); Efraín Ramos Juárez (EIBR Secundaria Iñapari); Luis Cueva Maldonado and Ricardo Torres (Rosario del Acre Housing Association).</p> |
| 2021 participatory closing workshop, December 10, 2021.<br>Form of Invitation: Letters and telephone calls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>The main characteristics of the project were explained, highlighting the importance of its implementation and mentioning its objectives from a climatic, community and environmental perspective. The main activities were described, detailing the actions that will be carried out to achieve the objectives, highlighting the project's contribution to the environmental component and the development of the surrounding communities, as well as the project's contribution to the conservation of protected natural areas and PIACI territory and populations. Information was provided on the main costs of project implementation, as well as the risks to which the project is subject and what would happen in a scenario without the project. The monitoring carried out in the areas of the communities of influence of the project was explained, explaining how the</b></p> | <ul style="list-style-type: none"> <li>• Presentation of forestry operations implemented in the period 2021.</li> <li>• Presentation of the activities of the "Tahuamanu Amazon REDD Project".</li> <li>• Presentation on the management of the Social Responsibility Area 2021.</li> <li>• Presentation of summary of support and social activities 2021.</li> </ul>                                                            | <p>11 stakeholders: Baltaza Condori Champi (Flor de Acre Community), Claudio Serna Sheyla (CATAHUA SAC), Suarez Ccalucchi Erika (Belgica Native Community), Cardozo Mouzully Abraham (Provincial Municipality of Tahuamanu), Pizarro Chapiama Marlon (San Francisco de Asis), Valcarcel Cueva Arturo (Chilina Vieja), Romero Mamani Miriam (Rosario del Acre), Gonzales Sola Henry (Provincial Municipality of Tahuamanu), Garbozo Sarmiento Irene (Nuevo Iñapari Association), Huasicayna Ramos Ricardo (San Isidro de Chilina) and Pacheco Villanueva Enrique (MADERYJA SAC).</p>                                                                                                                                                                                         |

<sup>17</sup> Community support > 2020\_Community > Communication Stakeholders; Community support > 2020\_Community > f. Monitoring  
Community support > 2021\_Community > Communication Stakeholders; Community support > 2021\_Community > f. Monitoring

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>different productive activities have been evolving and how they have been affecting the forest areas, encouraging them to carry out practices that contribute in different aspects to the conservation of the forests and the development of the communities, with an approach that places the forest as the engine of development. The verification and validation process that the project is going through was reported, calling on the representatives to get involved with our activities and work together.</p>                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>First Consultative Committee, February 26, 2021.<br/>Form of Invitation: Letters and telephone calls.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>The main characteristics of the project were explained, highlighting the importance of its implementation and mentioning its objectives from a climatic, community and environmental perspective. The main activities were described, detailing the actions that will be carried out to achieve the objectives, highlighting the project's contribution to the environmental component and the development of the surrounding communities, as well as the project's contribution to the conservation of protected natural areas and PIACI territory and populations. Information was provided on the main costs of project implementation, as well as the risks to which the project is subject and what would happen in a scenario without the project. Information was provided on the verification and validation process that the project is going through.</p> | <ul style="list-style-type: none"> <li>• Presentation of the Social Responsibility management instruments and activities carried out during the 2020 period.</li> <li>• Presentation of the sustainable forest management process carried out by MADERACRE SAC, the contribution in the conservation of forests in a responsible manner and the development of the local population.</li> <li>• Compilation of consultations, contributions or agreements of the Committee members.</li> <li>• Inclusion of new members to the Consultative Committee.</li> </ul> | <p>04 attendees: Milagros López Cardozo (Mothers' Club of Iñapari); Erika Suarez Ccalluchi (Belgica Native Community); Katherine Sandoval and Carola Gallarreta (Provincial Municipality of Tahuamanu); Efraín Ramos Juárez (EIBR Secondary Iñapari). In addition, an invitation was extended to representatives wishing to attend the meeting, which was attended by the following representatives: Irene Garbozo Sarmiento, Misael Tenazoa Barrera and José Andrade Chujandama (Nuevo Iñapari Housing Association); Ricardo Huaicayna Ramos (San Isidro de Chilina) Luis Cueva Maldonado and Ricardo Torres (Rosario del Acre Housing Association).</p> |
| <p>Second Consultative Committee, December 10, 2021.<br/>Form of Invitation: Letters and telephone calls.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>The main characteristics of the project were explained, highlighting the importance of its implementation and mentioning its objectives from a climate, community and environmental perspective. The main activities were described, detailing the actions that will be carried out to achieve the objectives, highlighting the project's contribution to the environmental component and the development</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>• Presentation of MADERACRE SAC's sustainable forest management process, its contribution to the conservation of forests in a responsible manner and the development of the local population.</li> <li>• Presentation of the projects "Madre de Dios Amazon REDD Project" and "Tahuamanu Amazon REDD Project".</li> <li>• Presentation of the Social Responsibility management</li> </ul>                                                                                                                                  | <p>02 members: Suarez Ccalucchi Erika (Belgica Native Community) and Cardozo Mouzully Abraham (Provincial Municipality of Tahuamanu).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>of the surrounding communities, as well as the project's contribution to the conservation of protected natural areas and PIACI territory and populations. Information was provided on the main costs of project implementation, as well as the risks to which the project is subject and what would happen in a scenario without the project. Information was provided on the verification and validation process that the project is going through.</p> | <p>instruments and activities carried out during the 2021 period.</p> <ul style="list-style-type: none"> <li>• Compilation of consultations, contributions or agreements of the Committee members.</li> </ul> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

#### 2.3.5 Risks from the Project and No Net Harm (VCS, 3.18, 3.19)

With respect to the anthropic risks derived from the Project's activities, it can be mentioned that the Project generates minimal negative impacts, which are controlled through socio-environmental management measures with the various stakeholders. Likewise, the anthropic impacts generated by the project are mostly positive and beneficial to the community.

**Table 2.22 Identified risks**

| <i>Identified risk(s)</i>                     |                                                          | <i>Potential impact of risk on stakeholders, ecosystem health, and biodiversity</i>                                                                                                                                                                                                                                                                                        | <i>Mitigation or preventative measure(s) taken</i>                                                                                                                                                  |
|-----------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Impacts on biodiversity and ecosystems</i> | Possible loss of biodiversity of forest flora and fauna. | <u>Anthropic Risks</u><br><br>Participation Stakeholder: None, because community stakeholders maintain the diversity of flora and fauna for their daily activities.<br><br>Working Conditions: None.<br><br>Vulnerable Groups: Populations whose livelihoods are based on the natural resources of the forest continue to do so, such as the Native Community of Bélgica_. | Although no such impacts are generated, the Project foresees the occurrence of such impacts with the following measures:<br><br>General Forest Management Plan<br><br>Community Development Program |
| <i>Soil degradation and soil erosion</i>      | Potential loss of crop areas for local agriculture       | <u>Anthropic Risks</u><br><br>None, since the Project does not contemplate occupying areas of cultivation or agricultural use.                                                                                                                                                                                                                                             | Although no such impacts are generated, the Project foresees the occurrence of such impacts with the following measures:<br><br>General Forest Management Plan<br><br>Social Responsibility Plan    |

|                                     | <i>Identified risk(s)</i>                                               | <i>Potential impact of risk on stakeholders, ecosystem health, and biodiversity</i>                                                                                                                                                                                                                 | <i>Mitigation or preventative measure(s) taken</i>                                                                                                                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Water consumption and stress</i> | Possible loss of water bodies                                           | <p><u>Anthropic Risks</u></p> <p>None, since the Project contributes to the maintenance of biodiversity and local ecosystems through proper forest management, whose use takes into consideration the natural cycle; therefore, it contributes to the conservation of resources such as water..</p> | <p>Although no such impacts are generated, the Project foresees the occurrence of such impacts with the following measure:</p> <p>General Forest Management Plan</p>                                                                                     |
| <i>Local work</i>                   | Possible poor working conditions                                        | <p><u>Anthropic Risks</u></p> <p>Working Conditions: None. On the contrary, the project contributes to the supply of jobs with salaries in line with the market, with recognition of labor rights, insurance, and in accordance with Peruvian labor law.</p>                                        | <p>Although no such impacts are generated, the Project foresees the occurrence of such impacts with the following measures:</p> <p>Promotions and Transfers Policy and Procedures</p> <p>Equal Employment Opportunity and Anti-Discrimination Policy</p> |
| <i>Local citizen security</i>       | Possible increase in crime and abuses due to the increase of foreigners | <p><u>Anthropic Risks</u></p> <p>Possible increase in criminal acts affecting communities, women and children.</p>                                                                                                                                                                                  | <p>Although there are no such impacts, the Project foresees the occurrence of such impacts with the following measures:</p> <p>Good conduct talks to workers for the respect of local communities.</p>                                                   |

### 2.3.6 Community Costs, Risks, and Benefits (CCB, G3.2)

For the 2020 period, the Tahuamanu project was disseminated in the information spaces mentioned in the previous item; however, no cost or risk data was shown until the validation of the 2022 project. However, information on the importance of the Tahuamanu REDD project was shared in the workshops and committees that were held.

On the other hand, information regarding the main costs, benefits and risks associated with project implementation was shared with the communities located in the area of influence in February 2021. A Participatory Workshop and Consultative Committee were held.

#### **Benefits**

- Maintenance of the local microclimate.
- Conservation of the quantity and quality of surface and groundwater.
- Flood risk reduction and soil conservation.
- Maintenance of carbon sinks.
- Conservation of PNAPs and territories occupied by PIACI.
- Conservation of landscapes and biodiversity.
- Development of environmentally friendly production initiatives on a pilot scale aimed at the local population.
- Development of skills and capacities of the members of the families or associations linked to the selected projects.
- Contribution to the sustainable development of the population in the area of the project in accordance with the prioritization determined by the Advisory Committee on Community Relations of the Project.
- Strengthening environmental education for children, adolescents and communities involved in the project.

#### **Costs**

- The opportunity costs assumed by the beneficiaries when using their time to participate in citizen participation workshops and environmental education talks, instead of another beneficial activity for them.
- In the process of implementing the PPAMAs, the indirect costs associated with the beneficiary winners are counterparts that they must assume, generally framed in labor, office expenses, project implementation space, logistics, etc., while the project proponent assumes the expenses of infrastructure, inputs, materials, training and technical assistance, among the most important.

## Risks

- No risks are assumed for the population due to the implementation of the project. There is no displacement of communities or loss of livelihood, since the project area is part of a forest concession granted by the state for timber harvesting purposes, which has not had settlers within its area nor has the change of use of forest lands been allowed. Instead, the project generates benefits for the villagers within the region of project activities to improve their well-being and livelihoods in order to reduce the pressure exerted on the forests.

Moreover, during the citizen participation workshop held on February 2021, information referred to the main costs, benefits and risks associated with the implementation of the projects were shared with the communities located within its area of influence. Meeting report of the Community Relations Advisory Committee.

As demonstrated in Table 1.2 of the standard metrics, the project will be providing concrete support directly to the surrounding communities with a high level of participation. The project proponent organizes annual competitions to finance productive projects within the communities as a demonstration of the project's participatory and adaptive project approach.

### 2.3.7 Information to Stakeholder on Verification Process (VCS, 3.18.6, 3.19; CCB, G3.3)

At the last Citizen Participation Workshop (CPW) held on February 26, 2021, participants were informed that the project is within the process of its carbon certification by an independent accreditation body and that as part of this process a public consultation has been convened to collect opinions, complaints, or input from stakeholders. In addition, the project plans to report on the validation and verification process it will undergo by letter sent to stakeholders approximately 15 days prior to implementation.

As part of this aspect, letters were sent to stakeholders on September 1, 2021, at least one month in advance of the validation/verification field visit, supplemented by an announcement on local radio a few days prior to the field visit. This allowed the VVB to hold separate meetings with all expected stakeholders during the validation/verification process. As for the 2020 and 2021 verification, communication will take place in 2023.

### 2.3.8 Site Visit Information and Opportunities to Communicate with Auditor (VCS, 3.18.6, 3.19; CCB, G3.3)

In the year 2020, the project verification has not yet been disseminated, considering that its validation was for the year 2022. The present 2023, which verifies the year 2020 and 2021, has carried out an informative process about the validation instance through Information Letters to each interested party and to the surrounding communities. Likewise, opportunities for communication with the audit team will be communicated during the verification process to be carried out in 2023.

Evidence of the detailed activities can be viewed in report folders:

- Community Support > 2020\_Community > Communication Stakeholders
- Community Support > 2021\_Community > Communication Stakeholders

### 2.3.9 Stakeholder Consultation (VCS, 3.18; CCB, G3.4)

**Table 2.23 Stakeholder consultation Year 2020**

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ongoing consultation</b>                | Participatory Workshop for the start of the 2020 harvest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Date(s) of stakeholder consultation</b> | 09.07.2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Communication of monitored results</b>  | <p>The implementation, main characteristics, objectives and importance of the project is shared through the Participatory Workshop in a presentation by the project proponent technical team. The results of the project activities, the contribution to the environmental component and community development within the project activity region, the protection of the protected natural area that adjoins the project, the indigenous territories, communities and peoples in a situation of isolation and initial contact (PIACI), and forest custody and surveillance in the project's high-risk deforestation areas adjacent to communities and towns are detailed.</p> <p>The report was prepared N° 020-2020 – MADERACRE SAC./MECM</p> |
| <b>Consultation records</b>                | <p>During the meetings of the TPC, the project proponent gives consultation sheets to the participants, so they can generate consultations, proposals, opinions and/or contributions to be analyzed and considered within the framework of the implementation of the project.</p> <p>The responses for each contribution provided are addressed to the participant through the delivery of a letter prepared by the project proponent, where the considerations of the proposal for its implementation in the framework of the implementation of the project are detailed.</p> <p>The process records were: charges of the invitation letters, and presentation, which are attached to the Report. N° 020-2020 – MADERACRE SAC./MECM</p>       |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stakeholder input</b> | <p>No contributions from interested parties were recorded. On the other hand, it was fulfilled with:</p> <ul style="list-style-type: none"> <li>• 04 institutions that are: la I.E.B.R. Secundaria “Iñapari” and la I.E. N° 53003 “Elena Bertha, I.E. N° 52056 – Noaya and el Consolidad Maderera Río Yaveryja.</li> <li>• The letter was physically delivered to 13 institutions, which are: Municipalidad Provincial de Tahuamanu, Puesto de Salud Iñapari, Dirección Regional Forestal y de Fauna Silvestre, Policía Nacional del Perú, Oficina Agraria Iñapari, Agroindustria Forestal Santa Teresa, Canales Tahuamanu, Organismo Nacional de Sanidad Pesquera, Ministerio Publico, Comunidad Nativa de Bélgica, Asociación de Moradores La Colonia, Asociación Nuevo Iñapari y Club de Madres La Colonia.</li> <li>• The start of forestry operations was reported, with the implementation of the protocols established by the regulations for the surveillance, prevention and control of the pandemic caused by Covid-19, with the corresponding authorizations.</li> <li>• The responsible social management documents were shared, as well as the results of the main supports, programs and agreements in force in 2019.</li> <li>• Information was provided about the Tahuamanu Amazon Redd Project, reporting the main characteristics, highlighting the importance of its implementation.</li> </ul> |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                            |                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ongoing consultation</b>                | Advisory Committee for the start of Zafra 2020                                                                                                                                                                                                                                                                                                                                           |
| <b>Date(s) of stakeholder consultation</b> | 09.07.2020                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Communication of monitored results</b>  | Members of the committee are informed how the project activities have been executed, with emphasis on the axes of health, education, capacity building and infrastructure support for the communities prioritized at the beginning of the year, with the continuous commitment to continue developing activities for the project regarding what was agreed in these spaces for dialogue. |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | The report was prepared N° 019-2020 – MADERACRE SAC./MECM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Consultation records</b> | <p>During the meetings of the CCRC, the project proponent gives consultation sheets to the participants, so they can generate consultations, proposals, opinions and/or contributions to be analyzed and considered within the framework of the implementation of the project.</p> <p>The responses for each contribution provided are addressed to the participant through the delivery of a letter prepared by the project proponent, where the considerations of the proposal for its implementation in the framework of the implementation of the project are detailed.</p> <p>The records of the process were: charges of the invitation letters, and presentation, which are attached to the Report N° 019-2020 – MADERACRE SAC./MECM</p>                                                                                                                                                                                                                                                                                                                                          |
| <b>Stakeholder input</b>    | <p>No contributions from interested parties were recorded. On the other hand, it was fulfilled:</p> <ul style="list-style-type: none"> <li>• The letter was delivered via email to 02 members of the Advisory Committee who are: la I.E.B.R. Secundaria “iñapari” y la I.E. N° 53003 “Elena Bertha,</li> <li>• The letter was physically delivered to 04 members of the Advisory Committee who are: Municipalidad Provincial de Tahuamanu, Comunidad Nativa de Bélgica, Asociación de Moradores La Colonia y Club de Madres La Colonia.</li> <li>• The start of forestry operations was reported, with the implementation of the protocols established by the regulations for the surveillance, prevention and control of the pandemic caused by Covid-19.</li> <li>• The responsible management documents were shared, as well as the results of the main supports, programs and established agreements.</li> <li>• Information was provided about the Tahuamanu Amazon Redd Project, reporting the main characteristics, highlighting the importance of its implementation.</li> </ul> |

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ongoing consultation</b>                | Participatory workshop at the end of zafra 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Date(s) of stakeholder consultation</b> | 13.12.2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Communication of monitored results</b>  | <p>The implementation, main characteristics, objectives and importance of the project is shared through the Participatory Workshop in a presentation by the project proponent technical team. The results of the project activities, the contribution to the environmental component and community development within the project activity region, the protection of the protected natural area that adjoins the project, the indigenous territories, communities and peoples in a situation of isolation and initial contact (PIACI), and forest custody and surveillance in the project's high-risk deforestation areas adjacent to communities and towns are detailed.</p> <p>The report was prepared N° 041-2020 – MADERACRE SAC./MECM</p> |
| <b>Consultation records</b>                | <p>During the meetings of the TPC, the project proponent gives consultation sheets to the participants, so they can generate consultations, proposals, opinions and/or contributions to be analyzed and considered within the framework of the implementation of the project.</p> <p>The responses for each contribution provided are addressed to the participant through the delivery of a letter prepared by the project proponent, where the considerations of the proposal for its implementation in the framework of the implementation of the project are detailed.</p> <p>The records of the process were: charges of the invitation letters, and presentation, which are attached to the Report N° 041-2020 – MADERACRE SAC./MECM</p> |
| <b>Stakeholder input</b>                   | <p>No contributions from interested parties were recorded. On the other hand, it was fulfilled:</p> <ul style="list-style-type: none"> <li>The letter was delivered via email to 04 institutions, which are la I.E.B.R. Secundaria “iñapari” y la I.E. N° 53003 “Elena Bertha, I.E. N° 52056 – Noaya, el Consolidad Maderera Río</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                    |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Yaveryja y Consorcio Maderera Canales Tahuamanu.</p> <ul style="list-style-type: none"> <li>• The letter was physically delivered to 10 institutions, which are: Municipalidad Provincial de Tahuamanu, Puesto de Salud Iñapari, Dirección Regional Forestal y de Fauna Silvestre, Policía Nacional del Perú, Oficina Agraria Iñapari, Servicio Nacional de Sanidad Agraria, Comunidad Nativa de Bélgica, Asociación de Moradores La Colonia, Asociación Nuevo Iñapari y Club de Madres La Colonia.</li> <li>• Mention was made of the end of the forestry operations of the company Maderacre S.A.C., providing information on the sustainable forest management implemented by the company, with the results of monitoring this year's operations.</li> <li>• Information was provided about the Tahuamanu Amazon Redd Project, revealing the main characteristics involved in this project, detailing the importance of its implementation.</li> <li>• Social management documents were disseminated, the main supports for the commune and the programs and agreements that are in force.</li> </ul> |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ongoing consultation</b>                | Advisory Committee at the end of Zafra 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Date(s) of stakeholder consultation</b> | 13.12.2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Communication of monitored results</b>  | <p>The implementation, main characteristics, objectives and importance of the project is shared through the Participatory Workshop in a presentation by the project proponent technical team. The results of the project activities, the contribution to the environmental component and community development within the project activity region, the protection of the protected natural area that adjoins the project, the indigenous territories, communities and peoples in a situation of isolation and initial contact (PIACI), and forest custody and surveillance in the project's high-risk deforestation areas adjacent to communities and towns are detailed.</p> |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | The report was prepared N° 040-2020 – MADERACRE SAC./MECM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Consultation records</b> | <p>During the meetings of the TPC, the project proponent gives consultation sheets to the participants, so they can generate consultations, proposals, opinions and/or contributions to be analyzed and considered within the framework of the implementation of the project.</p> <p>The responses for each contribution provided are addressed to the participant through the delivery of a letter prepared by the project proponent, where the considerations of the proposal for its implementation in the framework of the implementation of the project are detailed.</p> <p>The records of the process were: charges of the invitation letters, and presentation, which are attached to the Report N° 040-2020 – MADERACRE SAC./MECM</p>                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Stakeholder input</b>    | <p>No contributions from interested parties were recorded. On the other hand, it was fulfilled:</p> <ul style="list-style-type: none"> <li>• The letter was delivered via email to 02 members of the Advisory Committee who are: la I.E.B.R. Secundaria “iñapari” y la I.E. N° 53003 “Elena Bertha,</li> <li>• The letter was physically delivered to 04 members of the Advisory Committee who are: Municipalidad Provincial de Tahuamanu, Comunidad Nativa de Bélgica, Asociación de Moradores La Colonia y Club de Madres La Colonia.</li> <li>• Mention was made of the end of the forestry operations of the company Maderacre S.A.C., providing information on the sustainable forest management implemented by the company, with the results of monitoring this year's operations.</li> <li>• Information was provided about the Tahuamanu Amazon Redd Project, revealing the main characteristics involved in this project, detailing the importance of its implementation.</li> <li>• Social management documents were disseminated, the main supports for the commune and the programs and agreements that are in force.</li> </ul> |

It is important to note that the process of information, participation or citizen consultation with stakeholders was limited during the year 2020 due to the arrival of the Global Pandemic by COVID 19, therefore, the common spaces were restricted; however, the Project complied with the information process.

**Table 2.24 Stakeholder consultation Year 2021**

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ongoing consultation</b>                | Participatory Startup Workshop zafra 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Date(s) of stakeholder consultation</b> | 29.02.2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Communication of monitored results</b>  | <p>The implementation, main characteristics, objectives and importance of the project is shared through the Participatory Workshop in a presentation by the project proponent technical team. The results of the project activities, the contribution to the environmental component and community development within the project activity region, the protection of the protected natural area that adjoins the project, the indigenous territories, communities and peoples in a situation of isolation and initial contact (PIACI), and forest custody and surveillance in the project's high-risk deforestation areas adjacent to communities and towns are detailed.</p> <p>The report was prepared N° 004-2021 – MADERACRE SAC./MECM</p>                                                 |
| <b>Consultation records</b>                | <p>During the meetings of the TPC, the project proponent gives consultation sheets to the participants, so they can generate consultations, proposals, opinions and/or contributions to be analyzed and considered within the framework of the implementation of the project.</p> <p>The responses for each contribution provided are addressed to the participant through the delivery of a letter prepared by the project proponent, where the considerations of the proposal for its implementation in the framework of the implementation of the project are detailed.</p> <p>The records of the process were: attendance list of the participants, charges of the invitation letters, photographs, and presentation, which are attached to the report N° 004-2021 MADERACRE SAC./MECM</p> |

## Stakeholder input

### Participant contributions and queries:

- Efraín Ramos Juárez - EIBR Secondary Iñapari: How much tax does the company generate in Iñapari, which can be used in education or health?
- RPTA: It was explained that Maderacre, in addition to the taxes it pays to the treasury, also makes a payment for the right of use to the Tahuamanu Forestry and Wildlife Directorate, which is allocated as regional funds, it was recommended that the management of the Municipality to access a percentage of these income and in this way be able to distribute it in work that benefits the population.
- Ricardo Huasicayna Ramos - San Isidro de Chilina: They request to have more participation in the activities carried out by Maderacre.
- RPTA: The invitation was extended to them, committing us to continue with the calls to their population for their participation in the different activities carried out by the company, in turn the participant was urged to organize and motivate the participation of their neighbors in the activities that organized by the company and especially in the Tahuamanu Amazon Redd Project and Madre de Dios Amazon Redd Project programs.
- Alexander Flores U. (Iñapari Agrarian Office): How do you use the trees; do you carry out any type of reforestation?
- RPTA: The methodology implemented during the harvesting of wood was explained, emphasis was placed on the aspects linked to the application of reduced impact techniques, and how this has allowed us to mitigate the impacts on the forest and thus contribute to its conservation. At the same time, it was explained to them why Maderacre does not carry out reforestation, since the management of the natural forest is based on its natural regeneration and the monitoring of these processes.

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>• Alexander Flores U. (Agrarian Office of Iñapari): How to contribute with actions to minimize hunting activities in the population?</li> <li>• RPTA: It was announced that hunting is prohibited in the area of the management unit, and that this aspect is strengthened with training for the personnel who enter with the objective of complying with the established regulations. It was reported that the company covers the protein requirement of its staff with meat that it acquires in the locations near the management unit. Environmental education in the population has also been strengthened through talks in educational institutions, such as with the IEBR Secondary School Iñapari, with which an agreement is in place to hold talks and workshops on environmental education.</li> </ul> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ongoing consultation</b>                | Startup Advisory Committee zafra 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Date(s) of stakeholder consultation</b> | 29.02.2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Communication of monitored results</b>  | <p>The implementation, main characteristics, objectives and importance of the project is shared through the Participatory Workshop in a presentation by the project proponent technical team. The results of the project activities, the contribution to the environmental component and community development within the project activity region, the protection of the protected natural area that adjoins the project, the indigenous territories, communities and peoples in a situation of isolation and initial contact (PIACI), and forest custody and surveillance in the project's high-risk deforestation areas adjacent to communities and towns are detailed.</p> <p>The report was prepared N° 005-2021 – MADERACRE SAC./MECM</p> |
| <b>Consultation records</b>                | During the meetings of the TPC, the project proponent gives consultation sheets to the participants, so they can generate consultations, proposals, opinions and/or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | <p>contributions to be analyzed and considered within the framework of the implementation of the project.</p> <p>The responses for each contribution provided are addressed to the participant through the delivery of a letter prepared by the project proponent, where the considerations of the proposal for its implementation in the framework of the implementation of the project are detailed.</p> <p>The records of the process were: attendance list of the participants, charges of the invitation letters, photographs, and presentation, which are attached to report N° 005-2021 MADERACRE SAC/MECM</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Stakeholder input</b> | <p>Participating contributions and queries:</p> <ul style="list-style-type: none"> <li>• Luis Cueva Maldonado – President Rosario del Acre, Requests the implementation of a communal facility for medical visits to the Health Post and renewal of access bridges for members, nurses and some visitors from some institutions.</li> </ul> <p>RPTA: We have evaluated your request and considering the current situation that has financially limited companies in the sector and taking into consideration that the Rosario del Acre Housing Association is very close to the Iñapari health center, it will not be possible to prioritize the care of your application this year.</p> <ul style="list-style-type: none"> <li>• Juarez Ramos Efrain – IEBR Secondary Iñapari, Requests to change parts of the fence of the IEBR Secondary Iñapari.</li> </ul> <p>RPTA: We have evaluated your request and considering the current situation that has financially limited companies in the sector and taking into consideration that the educational institution is not functioning as such, we will not be able to attend to your request this year.</p> <ul style="list-style-type: none"> <li>• Huasicayna Ramos Ricardo – President of the JASS – San Isidro de Chilina Create an artificial lake or pond, the purposes are the future of a recreational and tourist area, incidentally, management of fish breeding and other varieties would be carried out and give a Enhance the organization that is in disarray. I thank this company MADERACRE SAC for the opportunity it offers me in my concern about my community San Isidro de Chilina.</li> </ul> <p>RPTA: We appreciate your participation in the last advisory committee meeting and invite the president of</p> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>your community or a formally accredited person to request your incorporation into it. We also invite you to participate in the following contest for environmentally friendly projects so that you can compete to access direct support for the project.</p> <ul style="list-style-type: none"> <li>• Tenasoa Barrera Segundo – Nuevo Iñapari Association, Requests tree planting of the Santa Martha highway (Belgium) to mitigate dust and beautify the road in the association's section.</li> </ul> <p>RPTA: We invite you to establish coordination in order to structure and implement a tree planting program in the front of the Nuevo Iñapari housing association. Consider that there must be a firm commitment on the part of the members of the association to plant and maintain the seedlings.</p> <ul style="list-style-type: none"> <li>• Lopez Cardozo Milagros – Mothers Club, I do believe that health and children should continue to be supported. It has also requested support in the renovation of the Perimetric Fence of the Mothers Club.</li> </ul> <p>RPTA: We invite you to establish coordination with the purpose of improving the perimeter fence of the mothers' club.</p> |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ongoing consultation</b>                | End of harvest participatory workshop 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Date(s) of stakeholder consultation</b> | 17.12.2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Communication of monitored results</b>  | <p>The implementation, main characteristics, objectives and importance of the project is shared through the Participatory Workshop in a presentation by the project proponent technical team. The results of the project activities, the contribution to the environmental component and community development within the project activity region, the protection of the protected natural area that adjoins the project, the indigenous territories, communities and peoples in a situation of isolation and initial contact (PIACI), and forest custody and surveillance in the project's high-risk deforestation areas adjacent to communities and towns are detailed.</p> <p>The report was prepared N° 043-2021 – MADERACRE SAC./MECM</p> |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Consultation records</b> | <p>During the meetings of the TPC, the project proponent gives consultation sheets to the participants, so they can generate consultations, proposals, opinions and/or contributions to be analyzed and considered within the framework of the implementation of the project.</p> <p>The responses for each contribution provided are addressed to the participant through the delivery of a letter prepared by the project proponent, where the considerations of the proposal for its implementation in the framework of the implementation of the project are detailed.</p> <p>The records of the process were: attendance list of the participants, charges of the invitation letters, photographs, and presentation, which are attached to the report. N° 043-2021 MADERACRE SAC/MECM</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Stakeholder input</b>    | <p>Participating contributions and queries:</p> <ul style="list-style-type: none"> <li>• IRENE GARBOZO SARMIENTO - NUEVO IÑAPARI HUMAN SETTLEMENT, "Project to create a workshop so that residents can generate additional income for their homes, both for older people and young people of working age, such as: Woodworking and sewing workshop, Parenting management of small animals such as poultry and others, Biogardens, management and strengthening"</li> <li>• RPTA: yes, the possibility of new projects being submitted will be open in the next competition, which is estimated to take place in the second half of 2022. Woodworking workshops could optimize the use of wood waste.</li> <li>• RICARDO HUASICAYNA RAMOS - SAN ISIDRO DE CHILINA, "I reaffirm the idea of the Artificial Lagoon Project in order to regain awareness and a family economic environment, which we have the advantage of a spectacular area and also create customs or cultures that benefit to our generations as a primary basis and above all I am very grateful to the Maderacre company for this initial launch."</li> <li>• RPTA: yes, the possibility will be open for new projects to be presented in the next contest, which is estimated to take place in the second</li> </ul> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>half of 2022. They will be provided with the necessary support to guide their participation.</p> <ul style="list-style-type: none"> <li>• PIZARRO CHAPIAMA MARLON - SAN FRANCISCO DE ASIS, "Could we work or support Agro reforestation in my Community?"</li> <li>• RPTA: yes, environmentally friendly projects have that focus, recovering degraded areas and reducing the advance of deforestation. The possibility of new projects being presented will be open in the next competition, which is estimated to take place in the second half of 2022.</li> <li>• GONZALES SOTA HENRY - PROVINCIAL MUNICIPALITY OF TAHUMANU, "The protection of workers (SSOMA) is not 100%, helmet with face mask, UV protective glasses. Spread social projects throughout the province of Tahuamanu from Santa María – Iñapari."</li> <li>• RPTA: personal PPE are defined and assigned based on the type of activity and risks of the job. Not all jobs must use the same or all PPE. We carry out the dissemination in the sphere of influence of the company and its projects, this has been defined according to the project methodology.</li> <li>• MIRIAM ROMERO MAMANI - ROSARIO DEL ACRE ASSOCIATION, "Good evening, the undersigned is a resident of the Rosario del Acre Association and I hold the position of Minutes Secretary of the Board of Directors. My proposal is to include the activity of living fences in the homes or lots of families in my sector with training and technical assistance. Another is the improvement or rehabilitation of access roads to homes that, due to their location, suffer flooding due to rain. We have a road that requires filling with earth with an entrance and exit."</li> <li>• RPTA: it is possible that you can find an approach to apply for project financing and we will appreciate you maintaining coordination to see what activities can be worked on with your neighborhood.</li> <li>• CLAUDIA SERNA SHEYLA - CATAHUA SAC, "As a company, raise awareness among the Iñapari</li> </ul> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>community to give appropriate use to solid waste. Raise awareness in every home so that they can select organic and inorganic products together with the Municipality. "Take advantage of solid waste and obtain compost and that would also be very useful for all Iñapari farmers."</p> <ul style="list-style-type: none"> <li>• RPTA: We are aware that the municipality has a solid waste management and organic fertilizer production project. We will establish coordination to see if it is possible to expand the scope of the municipality's project to all households in Iñapari.</li> <li>• ARTURO VALCARCEL CUEVA - CHILINA VIEJA, "Health and education projects in the area, include sustainable projects."</li> <li>• RPTA: We would like to know more about the limitations of health and education services in your community, we would appreciate it if you would provide us with access to it. The possibility of new projects being presented will be open in the next contest, which is estimated to take place in the second half of 2022.</li> <li>• BALTAZAR CONDORI - FLOR DE ACRE, "Develop a tourism project for forest conservation."</li> <li>• RPTA: yes, environmentally friendly projects have that approach, opting for businesses or production mechanisms where the conservation of forests, the recovery of degraded areas and reducing the advance of deforestation, in that sense the development of the Tourism is a good alternative. The possibility of new projects being presented will be open in the next contest, which is estimated to take place in the second half of 2022.</li> </ul> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                            |                                           |
|--------------------------------------------|-------------------------------------------|
| <b>Ongoing consultation</b>                | End of year advisory committee zafrá 2021 |
| <b>Date(s) of stakeholder consultation</b> | 17.12.2021                                |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Communication of monitored results</b> | <p>The implementation, main characteristics, objectives and importance of the project is shared through the Participatory Workshop in a presentation by the project proponent technical team. The results of the project activities, the contribution to the environmental component and community development within the project activity region, the protection of the protected natural area that adjoins the project, the indigenous territories, communities and peoples in a situation of isolation and initial contact (PIACI), and forest custody and surveillance in the project's high-risk deforestation areas adjacent to communities and towns are detailed.</p> <p>The report was prepared N° 044 - 2021 – MADERACRE SAC./MECM</p>                                              |
| <b>Consultation records</b>               | <p>During the meetings of the TPC, the project proponent gives consultation sheets to the participants, so they can generate consultations, proposals, opinions and/or contributions to be analyzed and considered within the framework of the implementation of the project.</p> <p>The responses for each contribution provided are addressed to the participant through the delivery of a letter prepared by the project proponent, where the considerations of the proposal for its implementation in the framework of the implementation of the project are detailed.</p> <p>The records of the process were: attendance list of the participants, charges of the invitation letters, photographs, and presentation, which are attached to the report N° 044-2021 MADERACRE SAC/MECM</p> |
| <b>Stakeholder input</b>                  | <p>Participant contributions and queries:</p> <ul style="list-style-type: none"> <li>• ERIKA SUAREZ CCALLUCHI - NATIVE COMMUNITY OF BELGIUM, "Having Colombian bamboo as raw material, I suggest that handicrafts could be worked on this species, for which there would be a lack of training for its production and at the same time in later years it could be cultivated to give continuity to this activity and is sustainable over time. Another raw material in abundance is the banana, from which super interesting artisanal products have been seen, for which training would be lacking. "Both</li> </ul>                                                                                                                                                                         |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>initiatives would help the Native Community to preserve and revalue their traditional customs."</p> <ul style="list-style-type: none"> <li>• RPTA: Yes, they seem like good ideas to us that can be framed in the company's program of environmentally friendly productive projects. The next contest is expected to take place in the second half of 2022 and we will be happy to have the participation. of the community.</li> <li>• • ABRAHAN CARDOZO MOUZULLY - PROVINCIAL MUNICIPALITY OF TAHUAMANU, "The axes of health and education should continue to be strengthened, considering support for sports as a healthy alternative for the development of children, adolescents and young people in the district."</li> <li>• • ERIKA SUAREZ CCALLUCHI - NATIVE COMMUNITY OF BELGICA, "Continue with support in both prioritized axes, continue with coordination with other companies and the municipality to prepare the file for a new health center for the community."</li> </ul> |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 2.3.10 Continued Consultation and Adaptive Management (VCS, 3.18; CCB, G3.4)

In the previous item, you can see the responses to each of the comments and requests from the stakeholders. In order to continue communication and consultation with stakeholders, the project has developed a Communications Plan that establishes spaces for dialogue and information where communities and stakeholders can be informed of the project's objectives and activities and at the same time have the opportunity to contribute to the project. In this sense, the Communications Plan that is being applied consists of the following activities and reports the actions corresponding to years 2020 and 2021. Para el año 2020 no se recibieron solicitudes, el resumen presentado a continuación es del año 2021

**Table 2.25 Summary of comments received**

| Summary of comments received                                                                   | Actions taken                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Request to participate in company activities                                                   | For the San Isidro de Chilina Community, they were invited to participate in environmentally friendly productive projects.                                                                                                                 |
| I request communal premises for health                                                         | The Rosario de Acre community did not receive support as requested, given that the community is close to the Iñapari Health Center                                                                                                         |
| Request to change the fence of the IEBR secondary level                                        | It was dismissed because the institution was not in operation.                                                                                                                                                                             |
| Recreational Lake Application                                                                  | Participation in the contest: Environmentally friendly productive projects was requested from the San Isidro de Chilina Community, with that idea.                                                                                         |
| Arborization of the Santa Martha highway                                                       | The application was not formally submitted at the end of the period                                                                                                                                                                        |
| Support with perimeter fence of the mothers' club                                              | The application was not formally submitted at the end of the period                                                                                                                                                                        |
| Support for installation of living fences in homes with training at the Asoc Rosario del Acre. | All applications that have an environmentally friendly component are asked to present it in the contest. It must be taken into account that there are actions that municipalities must carry out and are outside the scope of the project. |
| Request to carry out a tourism project and projects with bamboo and banana raw materials       | All applications that have an environmentally friendly component are asked to present it in the contest.                                                                                                                                   |
| It was requested to continue supporting health and education axes                              | These are priority axes for the Project, its collaboration with them is being prioritized.                                                                                                                                                 |

**Table 2.26 Communication and Consultation activities that continued during 2020 and 2021**

| Communication and Consultation Activities Continued                                                                                                                                                                                         | Description                                                                                                                                                                                   | Actions in 2020                                                                                                                                                                                                                                                                                                                                          | Citizen contributions (2020) | Actions in 2021                                                                                                                                                                                                                                                                             | Citizen contributions (2021)               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Participatory Workshops: A space for communication and consultation where the entire population of the project's area of influence is invited through their representatives; it is a public participatory process carried out twice a year. | Workshop of the start of the 2020 and 2021, where information on sustainable forest management for 2019 and 2020 and the Project was disseminated.                                            | Start-up workshop held on June 25, 2020 with outreach to 17 stakeholders.                                                                                                                                                                                                                                                                                | No                           | 2021 Kick-off Participatory Workshop, February 26, 2021.                                                                                                                                                                                                                                    | 05 participations (1 to 5 in Table 2.12)   |
|                                                                                                                                                                                                                                             | Workshop at the end of the 2020 and 2021 with information about the 2020 and 2021 operating year. The workshop was held in person and in compliance with the corresponding social distancing. | Year-end workshop held on December 10, 2020 with outreach to 14 stakeholders.                                                                                                                                                                                                                                                                            | No                           | Final Participatory Workshop 2021, December 10, 2021.                                                                                                                                                                                                                                       | 08 participations (6 to 13 in Table 2.12)  |
| Consultative Committee: Made up of the most active and influential stakeholders in the social sphere. It is made up of 5 members: Provincial Municipality of Tahuamanu, Belgica Native                                                      | First meeting of the Consultative Committee.                                                                                                                                                  | The beginning of the year committee was held on June 25, 2020 with all members informed: The letter was delivered via email to the I.E.B.R. Secondary "Iñapari" and I.E. No. 53003 "Elena Bertha" and physically to the Provincial Municipality of Tahuamanu, Belgica Native Community, Association of Moradores La Colonia and Mothers Club La Colonia. | No                           | First Consultative Committee, February 26, 2021 with 04 attendees: Iñapari Mothers' Club; Native Belgica Native Community; Provincial Municipality of Tahuamanu; EIBR Secundaria Iñapari. Additionally, an invitation was extended to representatives who wish to be part of the committee. | 06 participations (14 to 19 in Table 2.12) |

|                                                                                                  |                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                              |                 |                                                                                                                                                                                           |                                            |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Community, Association of Residents of Tahuamanu, and the Association of Residents of Tahuamanu. | Second meeting of the Consultative Committee.                                                                                                                                                                 | The year-end committee was held on December 10, 2020 with all members informed: The letter was delivered via email to the I.E.B.R. Secondary School "Iñapari" and I.E. No. 53003 "Elena Bertha" and in physical form to the Provincial Municipality of Tahuamanu, Belgica Native Community, Association of Moradores La Colonia and Mothers Club La Colonia. |                 | Second Consultative Committee, December 10, 2021, with 02 members: Suarez Ccalucchi Erika (Belgica Native Community) and Cardozo Mouzully Abraham (Provincial Municipality of Tahuamanu). | 04 participations (20 to 23 in Table 2.12) |
| Suggestion Box                                                                                   | It remained installed outside the MADERACRE SAC office to ensure access to the entire community, Carretera Puerto Maldonado - Iñapari km 227 - Tahuamanu.                                                     | Physically installed                                                                                                                                                                                                                                                                                                                                         | No              | Physically installed                                                                                                                                                                      | No                                         |
| Virtual service channels                                                                         | Maintained the virtual channels of attention such as telephone number (985582143) and e-mail (responsabilidadesocial@maderacre.com).                                                                          | Provision of telephone number and e-mail.                                                                                                                                                                                                                                                                                                                    | Contributions   | Provision of telephone number and e-mail.                                                                                                                                                 | Contributions                              |
| Local radio                                                                                      | The local space to disseminate project messages such as local employment opportunities, call for participation spaces, informative messages on sustainable forest management, forest conservation or similar. | Agreement with Radio Local Integración (95.3) "La Radio del Pueblo" signed on December 7, 2020.                                                                                                                                                                                                                                                              | Not applicable. | Agreement with Radio Local Integración (95.3) "La Radio del Pueblo" subscribed on December 7, 2020 and with Radio Boom Suceso 106.5 F.M. Estereo.                                         | Not applicable.                            |
| Informative material                                                                             | Banners, triptychs, graphic, presentations.                                                                                                                                                                   | Informative materials were shared during participatory                                                                                                                                                                                                                                                                                                       | Not applicable. | Informative materials were shared during participatory                                                                                                                                    | Not applicable.                            |

|                                                                                                                                                                                  |                                                                                                                                                                                   | workshops and advisory committees.                                        |                 | workshops and advisory committees.                                      |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------|-----------------|
| Socialization of the project's social care procedures: this is disseminated to community representatives, organizations and public and private institutions by means of letters. | The Procedure for Attention and Constructive Transformation of Complaints, Claims or Social Conflicts with Populations and/or Third Parties. Environmental and Social Monitoring. | Virtual and physical delivery.                                            | Not applicable. | Virtual and physical delivery.                                          | Not applicable. |
| Web space where information about the Project, Monitoring and Results is made available.                                                                                         | Web space <a href="http://www.maderacre.com">www.maderacre.com</a> with the project documents.                                                                                    | It was kept up to date and with information on the 2019 and 2020 harvest. | Not applicable. | It was kept up to date with information for the 2020 and 2021 harvests. | Not applicable. |

It is important to point out that each of the citizen contributions or citizen requests were answered by means of a letter, which can be found in the reports of the activities mentioned above.

### 2.3.11 Stakeholder Consultation Channels (CCB, G3.5)

During 2020 and 2021 the participatory and consultation processes were still directed to a group of the area of influence of the project located in the area of Iñapari. Each of them were invited or disseminated through their respective authorities or legitimate representatives such as the president of the Belgica Native Community, the president or other leaders of the population centers, the mayor of the province of Tahuamanu, among others. The process was carried out in person or through virtual means, as long as the interest group has access to virtual platforms. The latter, due to the care of social distancing as a result of the COVID 19 Pandemic unleashed since 2020, all shared messages and spaces for participation and consultation were carried out in appropriate conditions according to the local characteristics of culture and forms of communication. The predominant local language, Spanish, was used and customary information channels such as the telephone (the most accessible means of communication) were used.

In order to verify this information, it is possible to consult the backup reports in the document where the delivery of the information is recorded with the signature of each of the representatives when the delivery was made physically and/or image of the virtual delivery of information.

As mentioned in the previous item, the consultation channels for stakeholders for the 2020-2021 period in the Communications Plan are:

- Participatory Workshops
- Advisory Committees
- Suggestion box
- Virtual customer service channels by mail or telephone
- Social Facilitator through the Social Responsibility Coordinator.
- Socialization of procedures and information about the Project.
- Maderacre's web page

### 2.3.12 Stakeholder Participation in Decision-Making and Implementation (VCS, 3.18, 3.19; CCB, G3.6)

The activities that have been implemented for the effective participation of all communities and that remained in force during 2020 and 2021 and the cultural and gender aspects considered are presented below.

Evidence of the detailed activities can be viewed in report folders:

- Community support > 2020\_Community > Communication Stakeholders
- Community support > 2020\_Community > Monitoring

- Community support > 2021\_Community > Communication Stakeholders
- Community support > 2021\_Community > Monitoring

**Table 2.27 Spaces for effective participation of the population**

| Activities and/or Processes                                                                                                                                                                                                                                                             | 2020 and 2021 actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cultural and gender aspects.                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Participatory Workshops: A space for communication and consultation where the entire population of the project's area of influence is invited through their representatives; it is a public participatory process carried out twice a year.                                             | <p>Start-up workshop held on June 25, 2020 with outreach to 17 stakeholders.</p> <p>Participatory start-up workshop for 2021, February 26, 2021 with 17 stakeholders.</p> <p>Workshop at the end of the 2020 with information about the 2020 operating year. The workshop was held in person and in compliance with the corresponding social distancing. Start of harvest workshop held on December 10, 2020 with dissemination to 14 stakeholders. Final 2021 Participatory Workshop, December 10, 2021 with the participation of 14 stakeholders.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>On the other hand, all messages and information to be shared were in Spanish (local language).</p> <p>The messages are disseminated to all stakeholders whether they are from civil society, the private sector, government authorities, grassroots social organizations, native communities or other vulnerable groups.</p> |
| Consultative Committee: Made up of the most active and influential stakeholders in the social sphere. It is made up of 5 members: Provincial Municipality of Tahuamanu, Belgica Native Community, Association of Residents of Tahuamanu, and the Association of Residents of Tahuamanu. | <p>The first meeting of the 2020 committee was held on June 25, 2020 with all members informed: The letter was delivered via email to the I.E.B.R. Secundaria "Iñapari" and I.E. N° 53003 "Elena Bertha" and physically to the Provincial Municipality of Tahuamanu, Native Community of Belgica, La Colonia Residents' Association and La Colonia Mothers' Club. First Consultative Committee of 2021, February 26, 2021 with 04 attendees: Iñapari Mothers' Club; Belgica Native Community; Provincial Municipality of Tahuamanu; EIBR Secundaria Iñapari. In addition, an invitation was extended to representatives who wish to be part of the committee.</p> <p>The second year-end committee meeting was held on December 10, 2020 with all members informed: The letter was delivered via email to the I.E.B.R. Secondary School "Iñapari" and I.E. No. 53003 "Elena Bertha" and physically to the Provincial Municipality of Tahuamanu, Belgica Native Community, Association of Residents La Colonia and Mothers Club La Colonia. Then in 2021, the Second Consultative Committee, December 10, 2021, with 02 members: Suarez Ccalucchi Erika (Belgica Native Community) and Cardozo Mouzully Abraham (Provincial Municipality of Tahuamanu).</p> | <p>The advisory committee is made up of grassroots women's organizations, includes the education sector, the Belgian native community, residents, and the local authority, which</p>                                                                                                                                            |

|                                                                                          |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suggestion Box                                                                           | It remained installed outside the MADERACRE SAC office, Carretera Puerto Maldonado - Iñapari km 227 - Tahuamanu.                                                                                                                                                                     | makes it inclusive. It is planned that the committee will continue to include other sectors from the entire area of influence of the project as long as each member assumes responsibility and willingness to participate in the committee. |
| Virtual service channels                                                                 | Maintained the virtual channels of attention such as telephone number (985582143) and e-mail (responsabilidadesocial@maderacre.com).                                                                                                                                                 |                                                                                                                                                                                                                                             |
| Local radio                                                                              | Local space to disseminate Project messages such as local employment opportunities, call for participation spaces, informative messages on sustainable forest management or similar. Agreement with Local Radio Integración (95.3) "La Radio del Pueblo" signed on December 7, 2020. |                                                                                                                                                                                                                                             |
| Informative Material                                                                     | Banners, brochures, graphics, presentations. Informative material was shared during participatory workshops and advisory committees.                                                                                                                                                 |                                                                                                                                                                                                                                             |
| Socialization of the project's social care procedures.                                   | The Procedure for Attention and Constructive Transformation of Complaints, Claims or Social Conflicts with Populations and/or Third Parties. Environmental and Social Monitoring.                                                                                                    |                                                                                                                                                                                                                                             |
| Web space where information about the Project, Monitoring and Results is made available. | Website www.maderacre.com with project documents. It was kept up to date and with information on the 2019 and 2020 harvest.                                                                                                                                                          |                                                                                                                                                                                                                                             |
| Promoter, project social care professional.                                              | Exclusive professional for the social attention of the project who coordinates and interacts with the environment with experience in community relations.                                                                                                                            |                                                                                                                                                                                                                                             |

Evidence of the detailed activities can be viewed in report folders:

- Community support > 2020\_Community > Communication Stakeholders
- Community support > 2020\_Community > Monitoring
- Community support > 2021\_Community > Communication Stakeholders
- Community support > 2021\_Community > Monitoring

### 2.3.13 Anti-Discrimination Assurance (VCS, 3.19; CCB, G3.7)

As cited and attached in the PD, Tahuamanu REDD has an official policy against any type of discrimination, which is posted on the company's website. No incidents have occurred during the current monitoring period. The communiqué reaffirms the project proponent's commitment to prevent any type of gender-based labor discrimination and adheres to international conventions related to gender equity.

In addition, Tahuamanu, through MADERACRE SAC, has a Labor Equality and Antidiscrimination Policy document that establishes a series of guidelines for internal personnel and business partners, stating that discrimination and any form of mistreatment, verbal or physical violence, and segregation by workplace authorities toward personnel and among personnel is strictly prohibited:

- Culture
- Physical appearance
- Disability
- Language
- Sex
- Gender
- Age
- Social, economic, health or legal status
- Pregnancy
- Marital or conjugal status
- Religion
- Opinions
- Ethnic or national origin
- Sexual preferences
- Migratory status as cited and attached in the PD, the project proponent has an official policy against any type of discrimination, which is uploaded in the company webpage. No incidents have occurred during the current monitoring period.

People with disability: Complying with Supreme Decree N° 002-2014-MIMP, through which the Regulation of Law N° 29973, General Law of the Person with Disability was approved. We make calls through the Employment Center of the Regional Directorate of Labor of Madre De Dios and also maintain coordination with the organization OMAPED (Municipal Office of Attention to Persons with Disabilities) - CONADIS (The National Council for the Integration of Persons with Disabilities). 3. The Personnel Selection Office will maintain a history of calls for applications and publications that validate and support the recruitment actions. 4. The reception of applications is open depending on the required profile. Candidates must present personal and/or professional conditions that are aligned with the organizational objective. In the recruitment and selection process, preference will be given to internal candidates to the extent that they meet the conditions and requirements for the position.

Evidence of the detailed activities can be viewed in report folders:

- Community support > 2020\_Community > Anti-Discrimination Assurance
- Community support > 2021\_Community > Anti-Discrimination Assurance

#### 2.3.14 Grievances (VCS, 3.18.4; CCB, G3.8)

During 2020 and 2021 no complaints or claims were received. However, during this period, the complaint that has been addressed since 2017 regarding the generation of dust in Nuevo Iñapari neighborhood was closed. For this purpose, a letter was submitted where the actions carried out each year in compliance with the agreements established with this population were communicated. After that, a response document was received from the Nuevo Iñapari Human Settlement, where they agreed with the actions taken by the company and accepted to continue assuming the commitment with the population. This document is signed by the local representative. However, the irrigation commitment continues to mitigate the impact of dust caused by the movement of vehicles in this sector.

### 2.3.15 Worker Training (VCS, 3.19; CCB, G3.9)

The project has an **Annual Training Plan**, and each year training is developed on various capacity building topics, which are developed on a regular basis to update and refresh the knowledge of workers, as well as new personnel joining the operations. During 2020, 70 training sessions were held for all forest and plant personnel; while in 2021, 57 training sessions were held. During the current monitoring period, MADERACRE SAC has provided training to its workers and third-party partners in different topics, being the most relevant and associated with the project, the following.

| Charge area              | Syllabus                                                                  | Participants        |                  |
|--------------------------|---------------------------------------------------------------------------|---------------------|------------------|
|                          |                                                                           | 2020                | 2021             |
| <b>Forest Management</b> | Forestry Certification - Chain of Custody                                 | 17 <sup>18</sup>    | 45 <sup>19</sup> |
|                          | Reduced impact logging (RIL)                                              | 25 <sup>20</sup>    | 53 <sup>21</sup> |
|                          | Forest Operations Monitoring                                              | 13 <sup>22</sup>    | 8 <sup>23</sup>  |
|                          | Identification of High Conservation Values (HCV)                          | 12 <sup>24</sup>    | 18 <sup>25</sup> |
|                          | Chain of custody forestry – Use of the FSC mark                           | -                   | 12 <sup>26</sup> |
|                          | Waste management                                                          | 28 <sup>27</sup>    | 55 <sup>28</sup> |
|                          | Construction, cleaning and camp closure                                   | 16 <sup>29</sup>    | 57 <sup>30</sup> |
|                          | Cubing and coding of roundwood                                            | -                   | 43 <sup>31</sup> |
|                          | Directed felling                                                          | -                   | 16 <sup>32</sup> |
|                          | Welcoming, good practices, correct use of tools, equipment, and machinery | 23 <sup>33 34</sup> | -                |

<sup>18</sup> Reporte N°007-2020-CoC y CF

<sup>19</sup> Reporte N°004-2021-CoC y CF

<sup>20</sup> Reporte N°006-2020 AIR

<sup>21</sup> Reporte N°003-2021-AIR

<sup>22</sup> Reporte N°008-2020 MOF

<sup>23</sup> Reporte de capacitación 007-2021 MOF

<sup>24</sup> Reporte N°009-2020 Identificación de AVC

<sup>25</sup> Reporte de capacitación 003-2021 BAVC

<sup>26</sup> Reporte N° 007-2021-CoC y uso de las marcas FSC

<sup>27</sup> Reporte N°005-2020-Manejo de Residuos Solidos

<sup>28</sup> Reporte N°005-2021-Manejo de Residuos Solidos

<sup>29</sup> Reporte N°004-2020-Construcción, limpieza y cierre de Campamento

<sup>30</sup> Reporte N°001-2021-Construcción, limpieza y cierre de campamento

<sup>31</sup> Reporte N°006-2021-Cubicación, codificación y calidad de madera rolliza

<sup>32</sup> Reporte N°002-2021- Tala Dirigida

<sup>33</sup> Reporte N°001-2020-Buenas prácticas y uso de herramientas

<sup>34</sup> Reporte N°003-2020-Buenas prácticas y uso de herramientas

| Charge area                           | Syllabus                                                                                                          | Participants         |                      |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
|                                       |                                                                                                                   | 2020                 | 2021                 |
| <b>Ecosystem services</b>             | Code of Conduct towards populations                                                                               | 107 <sup>35 36</sup> | 113 <sup>37 38</sup> |
|                                       | PCA PIACI - Protocols, characterization, Reporting Flowchart                                                      | 106 <sup>36 39</sup> | 114 <sup>38 40</sup> |
|                                       | REDD project dissemination: project objectives, actions, and results                                              | 33 <sup>41</sup>     | 28 <sup>42</sup>     |
| <b>Human Resources</b>                | Contracts and interpretation of pay slips, social benefits and International Labour Organization (ILO) convention | 28 <sup>43</sup>     | 27 <sup>44 45</sup>  |
|                                       | Insurance and Benefits                                                                                            | -                    | 45 <sup>46</sup>     |
| <b>Occupational health and safety</b> | First Aid                                                                                                         | 4 <sup>47</sup>      | 10 <sup>48</sup>     |
|                                       | IPER-C                                                                                                            | 32 <sup>49</sup>     | 87 <sup>50</sup>     |
|                                       | Rules of coexistence and social distancing                                                                        | -                    | 9 <sup>51</sup>      |
|                                       | Ergonomics                                                                                                        | 13 <sup>52</sup>     | -                    |
|                                       | Safe operation of heavy machinery                                                                                 | 12 <sup>53</sup>     | 89 <sup>54 55</sup>  |

The list below shows the area managers and coordinators who have provided training during the years 2020-2021:

- 
- <sup>35</sup> Carpeta: Capacitaciones CCE 2020  
<sup>36</sup> Carpeta: Capacitaciones CCE y PIACI 2020  
<sup>37</sup> Carpeta: Capacitaciones CCE 2021  
<sup>38</sup> Carpeta: Capacitaciones CCE y PIACI 2021  
<sup>39</sup> Carpeta: Capacitaciones PIACI 2020  
<sup>40</sup> Carpeta: Capacitaciones PIACI 2021  
<sup>41</sup> Carpeta: Capacitaciones REDD 2020  
<sup>42</sup> Carpeta: Capacitaciones REDD 2021  
<sup>43</sup> Informe N°001-Boleta de pagos, beneficios y OIT  
<sup>44</sup> Informe N° 003 Capacitación contrato\_interpretación de boletas y OIT  
<sup>45</sup> Informe N° 005 Capacitación contrato\_interpretación de boletas y OIT  
<sup>46</sup> Capacitación Seguro y Beneficios 2021  
<sup>47</sup> Capacitación Primeros Auxilios 2020  
<sup>48</sup> Capacitación Primeros Auxilios 2021  
<sup>49</sup> Capacitación IPERC 2020  
<sup>50</sup> Capacitación IPERC 2021  
<sup>51</sup> Capacitación Prevención y control de COVID 19 2021  
<sup>52</sup> Capacitación Ergonomía 2020  
<sup>53</sup> Capacitación Seguridad en Operaciones de MF 2020  
<sup>54</sup> Capacitación Seguridad en Operaciones de Manejo Forestal 2021  
<sup>55</sup> Informe – Operación segura de maquinaria pesada 2021

| Nombre del capacitador                     | Año         |
|--------------------------------------------|-------------|
| Luis Ñaña Socualaya <sup>56</sup>          | 2020 y 2021 |
| Cesar Carcheri Rosas <sup>57</sup>         | 2021        |
| Miriam Chupan Minaya <sup>58</sup>         | 2020 y 2021 |
| Jersson Mendoza Ipanaqué <sup>59</sup>     | 2020 y 2021 |
| Tania Ayte Paz <sup>60</sup>               | 2020        |
| Jean Paul Panduro Navarro <sup>61</sup>    | 2021        |
| Geraldine Silva Iparraguirre <sup>62</sup> | 2021        |
| Renato Tealdo Meza <sup>63</sup>           | 2021        |
| Franco Nuñez Huayllapuma <sup>64</sup>     | 2021        |
| Carlos Arapa <sup>65</sup>                 | 2020        |

Evidence of the detailed activities can be viewed in report folders:

Community support > 2020\_Community > Community Impacts > Training

Community support > 2021\_Community > Community Impacts > Training

The system implemented by the project proponent, where training was passed on to new workers in case of staff turnover, included the following actions:

- **Standardized training material:** manuals, video tutorials, and presentations that cover essential tasks, safety protocols, and project-specific knowledge is developed. These materials are regularly reviewed and updated as processes or technologies evolve.
- **Training program:** structured onboarding process for new workers is implemented. This will include training sessions with experienced staff and access to the standardized training materials.

<sup>56</sup> CONTRATO\_LUIS\_ÑAÑA

<sup>57</sup> CONTRATO\_CESAR\_CARCHERI

<sup>58</sup> CONTRATO\_MIRIAM\_CHUPAN

<sup>59</sup> CONTRATO\_JERSSON\_MENDOZA

<sup>60</sup> Contrato de la colaboradora Ayte Paz

<sup>61</sup> CONTRATO\_JEAN\_PAUL\_PANDURO

<sup>62</sup> CONTRATO\_GERALDINE\_SILVA

<sup>63</sup> Servicio de Capacitación de terceros - Renato Tealdo Meza

<sup>64</sup> CONTRATO\_FRANCO\_ÑUÑEZ

<sup>65</sup> Contrato del colaborador Arapa

- **Periodic Refresher Training:** refresher courses for all staff to ensure knowledge remains up-to-date and consistent across the team is organized.

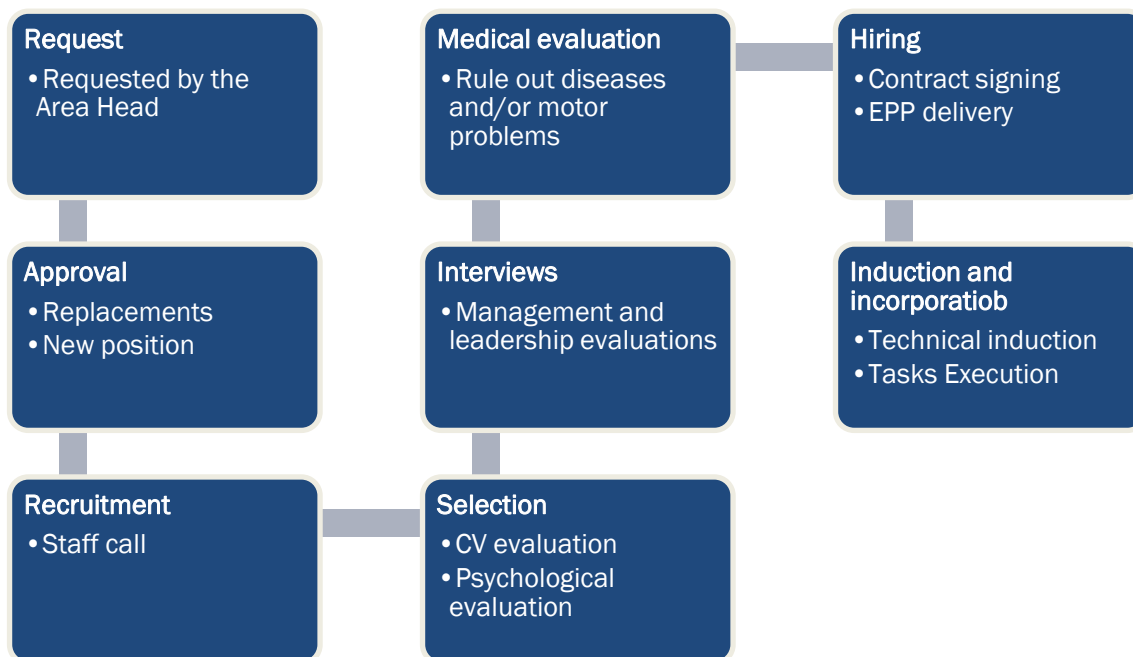
### 2.3.16 Community Employment Opportunities (VCS, 3.19.13; CCB, G3.10)

Tahuamanu Amazon REDD Project through MADERACRE SAC, thanks to the many activities carried out in the framework of sustainable management of the forest management unit for over 10 years, is an important source of employment in the province and prioritizes the selection and hiring of people from surrounding communities, for which it has a Recruitment Procedure. This procedure includes announcements on local radio stations in Iñapari (Agreements with radio stations), as well as being published in the Iñapari Municipality and Flyer actions and posters that are distributed to other neighboring communities, thus giving preference to local hiring. If the vacancies are not filled, the call is extended to regional or national level using other means or mechanisms of communication in force. All personnel without exception have access to training and professional development opportunities within MADERACRE SAC.

The specific actions taken in the community of Iñapari and within Madre de Dios are:

- Dissemination of the calls for proposals through local radio stations in Iñapari. MADERACRE SAC has agreements in force with: Radio Integración and Radio Bon Suceso. We also have broadcasts through Iberia's Radio Tahuamanu and Puerto Maldonado's radio station. (The Recruitment area prepares quarterly reports on the broadcasts and positions offered).
- Dissemination of calls for vacancies through publications in the mural of the Municipality of Iñapari.
- Flyering actions in the communities of Madre De Dios (Iñapari, Belgica Native Community, San Lorenzo, Iberia, Alegría, Alerta, Mavila and Puerto Maldonado).
- Dissemination through posters, stickers in the communities of Madre De Dios (Iñapari, San Lorenzo, Iberia, Alegría, Alerta, Mavila and Puerto Maldonado).
- Dissemination of vacancies and orientation talks on labor benefits according to current labor legislation. It is directed to the communities of Madre De Dios (Iñapari, Belgica Native Community, San Lorenzo, Iberia, Alegría, Alerta, Mavila and Puerto Maldonado).
- Dissemination through the Employment Center of Madre De Dios. 2. In case the vacancies are not covered, the call is extended to regional or national level using other means or mechanisms of communication in force (employment exchanges of the Ministry of Labor).

Prior to hiring, it is important to have the best trained personnel and, therefore, the project proponent applies a requirement, selection and incorporation of personnel flow that consists of the following steps:



**Figure 2.7. Requirements, selection and incorporation of personnel flow. Source: Own elaboration**

Within the technical induction, topics related to social benefits, quality standards - FSC, labor benefits, ILO Conventions No. 87 and 98, health care, SCTR, safety and health at work, among others; in order to generate knowledge of the benefits received from the company and the importance of being part of it, so, to be able to generate trust and reduce the level of turnover of collaborators, maintaining a solid work team to face the project activities.

The company has the "Policy and Procedures for Promotions and Transfers" and the "Labor Equality and Anti-Discrimination Policy" that allows the personnel working in the project to occupy a different job position than the current one, or the promotion of position, with a higher economic remuneration, promoting equal opportunities and the promotion of the employees labour development, generating the opportunity to carry out a career path for leadership and management positions, regardless of: race, color, religion, gender, sexual orientation, marital status, nationality, disability or any other situation.

The company is a source of employability as it contributes with job offers in the community, giving opportunities to occupy jobs, also giving the opportunity to women and vulnerable and/or marginalized people, so that they have a fair chance to occupy positions for which they can be trained. The list of workers<sup>66</sup> is summarized as follows:

<sup>66</sup> Trabajadores 2017-2021

**2020**

- Total workers: 88 (32 local)
- Total woman: 16 (5 local)

**2021**

- Total workers: 167 (46 local)
- Total woman: 23 (8 local)

**2.3.17 Occupational Safety Assessment (VCS, 3.19; CCB, G3.12)**

Tahuamanu Amazon REDD Project, through MADERACRE SAC, has developed an industrial safety regulation that is also applicable to third parties and has provided training to employees in identifying these risks and hazards, as well as informing them of the measures they must take to work safely. MADERACRE SAC equips all of its employees with personal protective equipment according to the type of tasks they perform and monitors its correct use and timely renewal. It also provides firefighting equipment for facilities and machinery in general.

In addition, basic first aid training is provided, as well as first aid kits and health professionals who are constantly present in the field operations camps. Tahuamanu REDD through MADERACRE SAC develops standardized methodologies for the daily evaluation of risks at work. This is done through the Hazard Identification, Risk Evaluation and Control Measures (IPER-C), which identifies the risks to which workers are exposed daily in the performance of their duties.

MADERACRE SAC has developed an evaluation for the Identification of Hazards, Risk Assessment and Control Measures (IPER-C) to which workers are exposed daily in the performance of their tasks, has developed an industrial safety regulation also applicable to third parties and has provided training to collaborators in the identification of these risks and dangers, in addition to informing about the measures they must take to carry out a safe work.

MADERACRE SAC equips all its collaborators with personal protective equipment depending on the type of tasks they perform, monitors their correct use and timely renewal. It also provides firefighting equipment for facilities and machinery in general.

We are concerned about the health of our collaborators, so we provide them with basic first aid training, they are provided with medicine cabinets and health professionals who are constantly present in the field operations camps.

MADERACRE SAC has an environmental impact study and procedures for the responsible management of solid and polluting waste that its operations may generate.

The IPER-C and the supporting documents related to the work safety of the collaborators are available to the auditors.

Evidence of the detailed activities can be viewed in report folders:

Community support > 2020\_Community > Community Impacts

Community support > 2021\_Community > Community Impacts

## 2.4 Management Capacity

### 2.4.1 Required Technical Skills (VCS, 3.19; CCB, G4.2)

The project team is successfully implementing another REDD+ project with similar characteristics since 2012. The project has been validated and verified by VCS and CCB Gold, which is a guarantee of proven abilities in terms of community and biodiversity. In addition, the project proponent is FSC certified. FSC certification is made up of a set of principles that include community participation and biodiversity assessment.

Regarding carbon measurement, MADERACRE SAC has contracted ECO DEVELOPMENT GROUP SAC<sup>67</sup>, which is a consulting company, made up of professionals who have participated in the design, implementation, monitoring, and verification of many of the REDD+ projects that are carried out in Peru: Castaña REDD project, Madre de Dios REDD project, Alto Mayo Redd Project, among others.

Project activities are aimed at reducing deforestation and degradation in the project area through the implementation of an effective system of custody and surveillance of the project area, the implementation of reduced impact techniques in forest management, and strengthening the development mechanisms of the surrounding communities by promoting productive initiatives that are more environmentally friendly, ecological restoration, as well as the valorization of the standing forest, contributing in this aspect with local producers' organizations, communities, and institutions linked to biodiversity conservation, management of protected natural areas and the territory of indigenous peoples in voluntary isolation. In this sense, it is essential that the technical team is maintained over time and that it strengthens its technical capacities as well as soft skills that allow them to lead, build and strengthen the implementation of project activities with a holistic and empathetic approach with the variety of actors present in the project's area of influence. In the table 2.29 we can see a list of the most important skills and abilities of the members of the technical team responsible for the implementation of activities, maintenance of community commitments, biodiversity assessment and monitoring of carbon metrics, deforestation, and degradation.

---

<sup>67</sup> Eco Development Group Sac (EDG): <https://www.edgperu.com/>

**Table 2.28 Skills and abilities of the members of the Project Managers**

| Job Title                                                                  | COMMERCIAL MANAGER                                                                                                                                                                                                                                         | REGIONAL MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Collaborator in charge                                                     | José Luis Canchaya                                                                                                                                                                                                                                         | Nelson Kroll                                                                                                                                                                                                                                                                                                                                                                             |
| Objective of the Position<br>(Main responsibility related to the position) | Plan and direct the sales plans of the company's products or services to achieve the objectives set. Responsible for coordinating, leading and supervising the commercial work of the commercial team                                                      | Ensure proper implementation of project activities. Develop annual plans and manage the necessary budgets to ensure compliance with the goals and objectives. Ensure the proper functioning of forestry operations with the objective of seeking environmental and financial efficiency. Ensure the proper relationship of the project with the communities and stakeholders in general. |
| General Functions<br>(Main project-related tasks)                          | 1.- Coordinate the sales of the company's goods and services.<br>2.- Supervise and coordinate relevant actions to publicize the quality of products and services of the company.<br>3.- Participate in workshops or spaces to present the company's offer. | 1.- Coordinate the proper implementation of forest management plans.<br>2.- Supervise activities of forest management, REDD, chain of custody and forest harvesting.<br>3. Supervise and coordinate the good progress of all the actions of the concessions and the maintenance of the FSC, VCS and CCB certifications of the company.                                                   |
| Experience                                                                 | More than 18 years of experience. Manager of the first FSC certification in Peru and the first CCB+VCS REDD certification in productive forests in the world.                                                                                              | More than 18 years of experience as a forest manager. Manager of the first FSC certification in Peru and the first CCB+VCS REDD certification in productive forests in the world.                                                                                                                                                                                                        |
| Profession                                                                 | MBA Tulane University Freeman Business School. Economist Pacifico University                                                                                                                                                                               | Forestry Engineer of Agrarian National University La Molina                                                                                                                                                                                                                                                                                                                              |
| Languages                                                                  | Spanish and English (Advanced) and German and French (intermediate)                                                                                                                                                                                        | Spanish and English (intermediate)                                                                                                                                                                                                                                                                                                                                                       |

**Table 2.29 Skills and abilities of the members of the technical team**

| Job Title                                                               | HEAD OF FOREST MANAGEMENT                                                                                                                                                                                                                                                                    | HEAD OF EVALUATION AND MONITORING                                                                                                                                                                                                                         | EVALUATION AND MONITORING COORDINATOR                                                                                                                                                                                                                          | SOCIAL RESPONSIBILITY COORDINATOR                                                                                                                                                                                                                 | SOCIAL RESPONSIBILITY ASSISTANT                                                                                                                                                                                             |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Collaborator in charge                                                  | Luis Ñaña Socualaya                                                                                                                                                                                                                                                                          | César Carcheri Rosas                                                                                                                                                                                                                                      | Jean Pierre Del Río Torres-Málaga                                                                                                                                                                                                                              | Miriam Chupán Minaya                                                                                                                                                                                                                              | Leslie Monteagudo Ccencho                                                                                                                                                                                                   |
| Objective of the Position (Main responsibility related to the position) | Responsible for ensuring the proper implementation and execution of forest management plans (PGMF and PO), ensuring the supply of roundwood to the industry, as well as maintaining the FSC certificates of MF-CoC and the environmental component of the Madre de Dios amazon redd project. | Design, development and implementation of projects related to ecosystem services (Carbon, Biodiversity, Recreation, etc.) and lead the correct implementation of forest evaluation and monitoring instructions.                                           | Lead the execution of forest evaluation and monitoring tasks and activities, as well as ensure the correct implementation of the custody and surveillance plans of the company's UMF.                                                                          | Coordinate activities to contribute to the development of the communities in the area of influence and maintain a transparent, timely and respectful dialogue with stakeholders.                                                                  | Assist in the activities programmed by the social responsibility area aimed at contributing to the development of the communities in the area of influence.                                                                 |
| General Functions (Main project-related tasks)                          | 1.- Implementation of forest management plans. Planning, coordinating, executing, supervising and monitoring forest management, silviculture, chain of custody and forest harvesting activities.<br>3. Maintain the FSC Forest Management Certification.<br>Maintain the                     | 1. Plan, coordinate, direct and execute the REDD+ projects developed by the company.<br>2. Collaborate in the development of new projects based on ecosystem services.<br>3. Elaborate, implement, revise and update the forest evaluation and monitoring | 1. Coordinate, supervise and execute field work for the evaluation and monitoring of the forest, as well as the quality of execution.<br>2. Provide support in the implementation and execution of REDD+ projects and other projects developed by the company. | 1. Execute social responsibility policies and area plans.<br>2. Coordinate and implement programs, agreements, projects and plans aimed at contributing to the development of the communities.<br>3. Coordinate and implement the Environmentally | 1. Support in the execution of projects, programs, plans and agreements in the area of SR.<br>2. Support in the execution of environmentally friendly productive projects.<br>3. Receive and manage inquiries, requests and |

| Job Title                                                                               | HEAD OF FOREST<br>MANAGEMENT                                                                                                                                                                                                                                                            | HEAD OF<br>EVALUATION AND<br>MONITORING                                                                                                                                                                                                                                                                        | EVALUATION AND<br>MONITORING<br>COORDINATOR                                                                                                                                                                                             | SOCIAL<br>RESPONSIBILITY<br>COORDINATOR                                                                                                                                                                                                                                                                       | SOCIAL<br>RESPONSIBILITY<br>ASSISTANT                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                         | certification for the Madre de Dios Project.                                                                                                                                                                                                                                            | instructions. 4. Plan, coordinate, direct and execute field work for forest assessment and monitoring. 5. Plan, coordinate, direct and execute field work for monitoring the quality of forestry operations. 6. Update and design the annual integrated plan of custody and surveillance of the company's UMF. | 3. Coordinate, supervise and execute the annual integrated plan of custody and monitoring of the forest.                                                                                                                                | Friendly Productive Projects.<br>4. Receive and manage inquiries, requests, complaints and/or support to stakeholders that require it.<br>5. Ensure the Social component of FSC certification.<br>6. Oversee the social component of REDD+ projects.<br>7. Audit processes FSC, CCB and VCS social component. | complaints from stakeholders.<br>4. Support in the execution of activities of the social component of climate projects and other ecosystem services developed and implemented by the company.<br>5. Support in the fulfillment of the social component of the certifications held by the company.<br>6. Support in the collection and processing of information for social monitoring. |
| Specific Functions (What to do and day-to-day responsibilities related to the position) | 1. Systematically and periodically monitor compliance with the Regulations and Operations Manual, both with its own operations as well as those of third parties.<br>2. Be responsible to the different neighbors of the concession to address social, territorial and forestry issues. | 1. Lead the design, development and implementation of REDD+ projects in compliance with standards for climate projects (VCS, CCB, others).<br>2. Provide GIS and methodological support for the development and implementation of                                                                              | 1. Coordinate and execute the forest census.<br>2. Execute the monitoring of the forest dynamics (PPM).<br>Execute the monitoring of the growth of the species of interest (AP). 4. Execute the evaluation of the natural regeneration. | 1. Execute the Anthropological Contingency Plan to address risk situations in the face of evidence or encounters with Indigenous Populations in Isolation or Initial Contact. Conduct personnel training and the                                                                                              | 1. Conduct training on the PIACI Anthropological Contingency Plan, Code of Conduct and REDD Component.<br>2. Support the organization and development of the Consultative Committee and Citizen Participation Workshop at the                                                                                                                                                          |

| Job Title | HEAD OF FOREST<br>MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HEAD OF<br>EVALUATION AND<br>MONITORING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EVALUATION AND<br>MONITORING<br>COORDINATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SOCIAL<br>RESPONSIBILITY<br>COORDINATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SOCIAL<br>RESPONSIBILITY<br>ASSISTANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | 3. Supervise the databases of production records in the forest and supervise the codification of the logs for their transportation.<br>4. Administer the Forest Transport Guides.<br>5. Supervise the daily forest production report.<br>6. Develop and implement a training plan for the personnel in charge of the company.<br>7. Coordinate the activities of the Evaluation & Monitoring area.<br>8. Coordinate and execute the Forest Harvesting operations guaranteeing the supply of the industry.<br>9. Coordinate, monitor and give conformity to the services of third parties.<br>10. Implement the functions of the Forest Regent. | projects based on ecosystem services.<br>3. Lead forest census activities, as well as monitoring of the activity for compliance with the Census Manual for direct management.<br>4. Plan and monitor activities related to biodiversity studies defined by the Monitoring of forest dynamics through the establishment of PPMs, Monitoring of diametric growth of species by PA, Evaluation of natural regeneration pre and post logging and Evaluation of wildlife post logging.<br>5. Plan and monitor the monitoring activities of forest operations and quality in all processes in the area.<br>6. Others as directed by the regional management. | 5. Execute the evaluation of wildlife. Execute and coordinate the monitoring of forestry operations activities.<br>7.<br>7. Execute the monitoring of the quality of cultural work.<br>8. Support activities related to REDD+ projects developed by the company.<br>9. Collaborate in the implementation of field work of projects based on ecosystem services.<br>10. Execute the integral plan of custody and surveillance.<br>11. GIS support.<br>12. Others determined by the regional management. | corresponding monitoring.<br>2. Train company personnel in the company's social policies and social standards of the certifications held by the company, including the Code of Conduct towards Local Populations and Native Communities.<br>3. Conduct the Social Diagnosis of the company's area of influence.<br>4. Conduct social monitoring and social monitoring of social agents.<br>5. Organize and participate in the Consultative Committee.<br>6. Organize and develop the Citizen Participation Workshop at the beginning and end of the harvest.<br>7. Manage and provide timely response to requests | beginning and end of the harvest.<br>3. Respond to requests and complaints from stakeholders and other social actors.<br>4. Support in the fulfillment of social programs, projects, among others.<br>5. Induct new employees on Social Responsibility Policies.<br>6. Support in the fulfillment of the Social component of the certifications that the company holds.<br>7. Support in the fulfillment of the Social component of REDD projects and others.<br>8. Support the management of local productive initiatives within the framework of REDD Projects.<br>9. Execution of activities of the Productive initiatives of REDD Projects, planning, training, |

| Job Title | HEAD OF FOREST<br>MANAGEMENT                               | HEAD OF<br>EVALUATION AND<br>MONITORING | EVALUATION AND<br>MONITORING<br>COORDINATOR | SOCIAL<br>RESPONSIBILITY<br>COORDINATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SOCIAL<br>RESPONSIBILITY<br>ASSISTANT                                                                                                                  |
|-----------|------------------------------------------------------------|-----------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | 11. Submit weekly production information to the cost area. |                                         |                                             | <p>and complaints from citizens and other social actors.</p> <p>8. Represent the company in the municipal instances of concentration, territorial strategic planning, participatory budget and before other public and non-governmental institutions. Manage agreements.</p> <p>9. Execute the company's social programs in the surrounding communities and in the corresponding areas.</p> <p>10. Induct new employees on Social Responsibility Policies.</p> <p>11. Execute the social responsibility policies and area plans. Review and update the SR management tools.</p> <p>12. Ensure the Social component of the FSC certification.</p> | <p>execution, among others.</p> <p>10. Collect and process sufficient and quality information for the calculation of social monitoring indicators.</p> |

| Job Title           | HEAD OF FOREST<br>MANAGEMENT                                                          | HEAD OF<br>EVALUATION AND<br>MONITORING                                                         | EVALUATION AND<br>MONITORING<br>COORDINATOR                                           | SOCIAL<br>RESPONSIBILITY<br>COORDINATOR                                                                                                                                                                                                                                                                                                             | SOCIAL<br>RESPONSIBILITY<br>ASSISTANT                                                |
|---------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                     |                                                                                       |                                                                                                 |                                                                                       | 13. Oversee the social component of REDD+ projects.<br>14. Manage local productive initiatives within the framework of REDD+ Projects.<br>15. Elaboration of diagnosis on degradation potential within the framework of REDD+ Projects.<br>16. Execute the Social Monitoring based on the identified indicators. Prepare the corresponding reports. |                                                                                      |
| Minimum requirement | Bachelor's degree in forestry engineering, renewable resources and/or related fields. | Forestry engineer, renewable resources and/or related fields                                    | Bachelor's degree in forestry engineering, renewable resources and/or related fields. | Bachelor's degree in agricultural sciences, sociology and/or related subjects                                                                                                                                                                                                                                                                       | Bachelor's degree in human sciences, sociology, anthropology and/or related subjects |
| Maximum requirement | Forestry engineer, renewable resources and/or related.                                | Master's Degree in Forest Management, renewable resources and/or related fields.                | Forestry engineer, renewable resources and/or related.                                | Degree in agricultural sciences, sociology and/or related fields.                                                                                                                                                                                                                                                                                   | Bachelor's degree in human sciences, sociology, anthropology and/or related subjects |
| Specialization      | Natural forest management, forest regency and certification                           | Natural forest management, forest carbon, ecosystem services and forest certification standards | Natural forest management.                                                            | Community relations, design, development and monitoring of social projects.                                                                                                                                                                                                                                                                         | Amazon Rural Anthropology                                                            |

| Job Title            | HEAD OF FOREST<br>MANAGEMENT                                                                                                                                                    | HEAD OF<br>EVALUATION AND<br>MONITORING                                                                                                                                | EVALUATION AND<br>MONITORING<br>COORDINATOR                            | SOCIAL<br>RESPONSIBILITY<br>COORDINATOR                                                                                                | SOCIAL<br>RESPONSIBILITY<br>ASSISTANT                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                      |                                                                                                                                                                                 | (FSC, CCB, VCS, others).                                                                                                                                               |                                                                        |                                                                                                                                        |                                                                                               |
| Languages            | Spanish.                                                                                                                                                                        | Spanish and English (intermediate).                                                                                                                                    | Spanish and English (advanced).                                        | Basic English                                                                                                                          | Basic English                                                                                 |
| Others               | Office,Arcgis,Gps intermediate.                                                                                                                                                 | Office, SIG (ArcGis, Qgis, Erdas, Global Mapper), GPS                                                                                                                  | Office,Arcgis,Gps                                                      |                                                                                                                                        |                                                                                               |
| General              | Forest work.                                                                                                                                                                    | Forest and city work                                                                                                                                                   | Forest work.                                                           | Community relations, conflict resolution, management and work in certified companies, REDD+ projects and work with native communities. | Community relations, work with communities                                                    |
| Specific Experience  | Elaboration of management plans (PGMF, PO). Planning, execution and coordination of management, silviculture and forest harvesting activities. Work in FSC certified companies. | Planning and execution of forest censuses, inventories and monitoring activities. Implementation of carbon, climate and biodiversity methodologies. FSC certification. | Forest census, inventories and monitoring activities. Carbon projects. | Intermediate use of Microsoft, basic SAP, design platforms, basic Arc gis.                                                             | Methodologies of citizen participation, social diagnosis. Intermediate Microsoft application. |
| Work Area            | Office,Field.                                                                                                                                                                   | Office,Field.                                                                                                                                                          | Office,Field.                                                          | Office,Field.                                                                                                                          | Office,Field.                                                                                 |
| Tools of the trade   | Computer, cell phone.                                                                                                                                                           | Computer, cell phone, GPS                                                                                                                                              | Computer, cell phone, GPS                                              | Computer, cell phone                                                                                                                   | Computer, cell phone                                                                          |
| Uniform              | EPP (helmet, industrial shoes, gloves, boots and glasses)                                                                                                                       | EPP (helmet, industrial shoes, gloves, boots and glasses)                                                                                                              | EPP (helmet, industrial shoes, gloves, boots and glasses)              | Boots (field activities)                                                                                                               | Boots, field clothes (when working in the field)                                              |
| General Competencies | Vocation of service, Interpersonal relations,                                                                                                                                   | Vocation of service, Interpersonal                                                                                                                                     | Vocation of service, Interpersonal                                     | Vocation of service, Interpersonal                                                                                                     | Vocation of service, Interpersonal                                                            |

| Job Title                                               | HEAD OF FOREST<br>MANAGEMENT                                                   | HEAD OF<br>EVALUATION AND<br>MONITORING                                        | EVALUATION AND<br>MONITORING<br>COORDINATOR                                    | SOCIAL<br>RESPONSIBILITY<br>COORDINATOR                                     | SOCIAL<br>RESPONSIBILITY<br>ASSISTANT                                       |
|---------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                         | Innovation,<br>Productivity                                                    | relations, Innovation,<br>Productivity                                         | relations, Innovation,<br>Productivity                                         | relations, Innovation,<br>Productivity                                      | relations, Innovation,<br>Productivity                                      |
| Specific<br>Competencies<br>(Maximum 3<br>competencies) | Personnel<br>management,<br>Teamwork, Pressure<br>management and<br>tolerance. | Personnel<br>management,<br>Teamwork, Pressure<br>management and<br>tolerance. | Personnel<br>management,<br>Teamwork, Pressure<br>management and<br>tolerance. | empathy with<br>different social<br>groups,<br>responsibility, team<br>work | Empathy with<br>different social<br>groups,<br>responsibility, team<br>work |
| Time                                                    | 03 years                                                                       | 03 years                                                                       | 02 years                                                                       | 01 year                                                                     | 01 year                                                                     |
| Specialty                                               | Forestry Engineer.                                                             | Forestry Engineer.                                                             | Forestry Engineer.                                                             | Agricultural sciences,<br>sociology and/or<br>related                       | Human sciences,<br>sociology,<br>anthropology and/or<br>related sciences    |

#### 2.4.2 Management Team Experience (VCS, 3.19; CCB, G4.2)

The project team is implementing another REDD+ project of similar characteristics since 2012 successfully. The project is VCS and CCB Gold validated and verified, which is a guarantee of proved skills in terms of community and biodiversity. In addition, the project proponent is FSC certified. FSC certification is composed by a set of principles that includes community engagement and biodiversity assessment.

#### 2.4.3 Project Management Partnerships/Team Development (VCS, 3.19; CCB, G4.2)

Regarding carbon measurement and general REDD advisory, MADERACRE SAC has hired ECODEVELOPMENT GROUP SAC<sup>68</sup>, who is a consultant company, composed by professionals who have been involved in the design, implementation, monitoring, validation, and verification of many of the REDD+ projects taking place in Peru: Brazil nut REDD project, Madre de Dios REDD project, Alto Mayo REDD project, among others.

Also, MADERACRE SAC is working with PASKAY SAC<sup>69</sup>, the consulting company that helped with the PD elaboration and validations and verification processes. Paskay provides advice on the implementation of comprehensive sustainable development programs and projects with a climate and territorial management approach, contributing to the sustainable development of the environment and the population through the analysis of technical, legal, social, political, and economic, design, execution and promotion of activities, projects, programs, and research with various actors.

#### 2.4.4 Financial Health of Implementing Organization(s) (CCB, G4.3)

MADERACRE has developed and implements an Ethics and Anti-Corruption Policy aimed at directors, managers, collaborators, suppliers and / or clients so that they apply ethical principles in their efforts and activities inside and outside the company.

Being the main economic activity of MADERACRE SAC the forest management to obtain products derived from wood, we have signed the National Pact for Legal Wood, a commitment that involves and links state entities, NGOs and private companies, both producers and users of the wood.

#### 2.4.5 Avoidance of Corruption and Other Unethical Behavior (VCS, 3.19; CCB, G4.3)

MADERACRE SAC has developed and implements an Ethics and Anti-Corruption Policy aimed at directors, managers, collaborators, suppliers and / or clients so that they apply ethical principles in their efforts and activities inside and outside the company.

---

<sup>68</sup> <https://www.edgperu.com/nosotros-eco-development-group/>

<sup>69</sup> <https://paskay.pe/>

Being the main economic activity of MADERACRE SAC the forest management to obtain products derived from wood, we have signed the National Pact for Legal Wood, a commitment that involves and links state entities, NGOs and private companies, both producers and users of the wood.

#### 2.4.6 Commercially Sensitive Information (VCS, 3.5.2-3.5.4; CCB Program Rules, 3.5.13 – 3.5.14)

**Table 2.30 Commercially sensitive information excluded from the public version of the MR.**

| Section   | Information                                                                                                                                                                                                       | Justification                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cash flow | It contains information on the income generated by the sales of wood and carbon credits, the expenses of executing activities linked to the project and executing operations, as well as administrative expenses. | It reveals the financial health of the company and its ability to generate income, which directly affects its value in the market and can influence the investment decisions of investors and other interested parties. |
| Contracts | It contains significant legal, financial and competitive implications for the parties involved.                                                                                                                   | Protect the confidentiality and security of the parties.                                                                                                                                                                |

## 2.5 Legal Status and Property Rights

### 2.5.1 National and Local Laws (VCS, 3.1, 3.6, 3.7, 3.14, 3.18, 3.19; CCB, G5.6)

MADERACRE SAC sustainably manages a forest management unit under the protection of the forest concession contracts that it signed with the Peruvian State and through which it undertook to comply with the legislation on the matter, as well as, to protect the forest heritage of the Nation. Thus, MADERACRE SAC complies with the provisions of the Forestry Law No. 29763 and its regulations approved by Supreme Decree No. 018-2015-MINAGRI. The same ones that regulate the categorization of forests, access to forest resources, forestry and forest management, infractions in forestry matters, control, etc.

Access to forest resources is legally recognized as of the approval of the forest management plans<sup>70</sup>, at the same time periodically the Wildlife Oversight Organization (OSINFOR) executes audits of our operations and annually the operation of MADERACRE SAC is audited by independent certification<sup>71</sup> body under the FSC MF and CoC Standards, a standard that contemplates in principle one compliance with national and international legislation on forest management.

<sup>70</sup> Biodiversity support > 2020 > Conservacion > PGMF CMRA Feb 2019\_uv\_spr.pdf

<sup>71</sup> Biodiversity support > 2021 > Paisaje > MADERACRE FSC FM reassessment 22 SPA.pdf

The concession contracts, the resolutions that approve the management plans and the results of the OSINFOR inspections and the FSC certificates that validate compliance with the forest legislation are available to the audit team.

**Table 2.31 Relevant Legal Framework**

| Laws                                    | Term               | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Constitution                        | October 31st 1993  | It has a chapter that establishes the State's policy with respect to the environment and natural resources. Thus, it provides in article 66 that natural resources, both renewable and non-renewable, are the heritage of the Nation, and that an organic law establishes the conditions for their use and their granting to individuals. The concession grants its holder a right in rem, subject to that legal rule. With respect to environmental policy, article 67 of the Constitution recognizes the role of promoting the use of natural resources, affirming the State's commitment to developing possible mechanisms for the conservation and sustainable use of its biological diversity. Likewise, article 69 emphasizes the role of the State in promoting the sustainable development of the Amazon.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Law No. 28611 "General Environment Law" | October 15th, 2005 | <p>In Article VI of this Law, it stipulates that environmental management has as priority objectives to prevent, watch and avoid environmental degradation, and that when it is not possible to eliminate the causes that generate it, the corresponding measures of mitigation, recovery, restoration or eventual compensation are adopted. Likewise, article XI mentions that the design and application of environmental public policies are governed by the principle of environmental governance, which leads to the harmonization of policies, institutions, regulations, procedures, tools and information in such a way that it is possible for the effective and integrated participation of public and private actors in decision making, conflict management and consensus building, based on clearly defined responsibilities, legal security and transparency. On the other hand, Article 150 of the Law stipulates that those measures or processes that, on the initiative of the owner of the activity, are implemented and executed with the purpose of reducing and/or preventing environmental pollution and the degradation of natural resources, constitute conducts that can be rewarded with incentives.</p> <p>Article 92 of the law states that the State promotes the sustainable use of forest and wildlife resources, as well as the conservation of natural forests, emphasizing the principles of management and zoning of the national forest area, the management of forest resources, legal security in the granting of rights and the fight against illegal logging and hunting. It also promotes and supports the sustainable management of wild fauna and flora, prioritizing the protection of endemic and endangered species and varieties,</p> |

| Laws                                                                  | Term           | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                       |                | <p>based on technical, scientific and economic information and traditional knowledge.</p> <p>Article 94 of this Act states that environmental services include the protection of water resources, the protection of biodiversity, the mitigation of greenhouse gas emissions and scenic beauty, among others. In addition, while they generate benefits that are used without retribution or compensation, it establishes the need for the State to establish mechanisms to value, compensate and maintain the provision of these environmental services, seeking to achieve the conservation of ecosystems, biological diversity and other natural resources. This article ends by mentioning that the National Environmental Authority (Ministry of the Environment) promotes the creation of financing, payment and supervision mechanisms for environmental services.</p>                                                                                                                                                                                                                                                                                                                                                                    |
| DL No. 1013 "Law for the Creation of the Ministry of the Environment" | May 15th, 2008 | <p>Through this standard, the Ministry of Environment is created, its scope of sectorial competence is established and its organic structure and its functions are regulated. The Ministry of Environment is the governing body of the executive branch of the environmental sector, which develops, directs, supervises and executes the National Environment Policy. The environmental sector includes the National Environmental Management System as a functional system, which integrates the National Environmental Impact Assessment System, the National Environmental Information System and the National System of Natural Areas Protected by the State. Among its functions is to develop and coordinate the national strategy against climate change and adaptation and mitigation measures, as well as supervise its implementation. It is also up to it to establish policies on environmental services, prepare the inventory and establish mechanisms to value, reward and maintain the provision of environmental services, as well as to promote financing, payment and supervision thereof. Finally, it is up to him to promote the creation of financing, payment and supervision mechanisms for environmental services.</p> |
| DS No. 12-2009-MINAM "National Environment Policy"                    | May 23rd, 2009 | <p>The elaboration of the National Environmental Policy is a mandate that comes mainly from the Political Constitution of Peru and the General Environmental Law, constituting a set of guidelines, objectives, strategies and instruments of a public nature that have the purpose of defining and orienting the actions of the entities of the National, Regional and Local Government, the private sector and the civil society, in environmental matters.</p> <p>The National Environmental Policy is divided into 5 objectives, 4 policy axes and specific objectives and guidelines for each policy. One objective of the National Environmental Policy relevant to the Project is to achieve the conservation and sustainable use of the country's natural heritage, with efficiency, equity and social welfare, prioritizing the integrated management of natural resources. The</p>                                                                                                                                                                                                                                                                                                                                                     |

| Laws                                                                                                                                                              | Term                 | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   |                      | environmental services are identified within the National Policy of the Environment in diverse points, indicating the necessity to foment its economic valuation through economic and financial instruments, emphasizing the importance of implementing systems of conservation of forests and protection of such as far as the degradation and deforestation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DS No. 006-2009-MINAM "Accurate denomination and proper functioning of the National Commission for Climate Change in accordance with Legislative Decree No. 1013" | March 29th, 2009     | The general function of the National Commission on Climate Change is to monitor the various public and private sectors involved in the issue, through the implementation of the United Nations Framework Convention on Climate Change, as well as the design and promotion of the National Climate Change Strategy, whose content should guide and inform national, sectoral and regional development strategies, plans and projects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RM 104-2009-MINAM "Approves procedure for the assessment and authorization of Greenhouse Gas (GHG) emissions and carbon sequestration projects"                   | May 24th, 2009       | With the approval of this procedure, the Ministry of the Environment proposes to promote the conservation of the environment, guaranteeing the sustainable use of natural resources in the framework of projects developed under the Clean Development Mechanism provided for in the Kyoto Protocol, forestry projects, projects to reduce emissions from deforestation and degradation (REDD) and programmatic CDM. The General Directorate of Climate Change, Desertification and Water Resources of the Ministry of the Environment is responsible for responding to project conformity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| DS No. 014-2011-MINAM "National Plan of Environmental Action" PLANAA - PERU 2011-2021                                                                             | July 9th, 2011       | It is an instrument of long term national environmental planning, which is formulated from a situational environmental diagnosis and from the management of natural resources, as well as from the potentialities of the country for the use and sustainable use of such resources; in the same way, it is based on the legal and institutional framework of the National System of Environmental Management. The fulfillment of the priority goals will contribute with the conservation and the sustainable use of the natural resources, the improvement in the environmental quality; and therefore, to improve the quality of life of our population. Goals are presented in the areas of water, solid waste, air, forest and climate change, biological diversity, mining and energy, and environmental governance. The goal in the area of Forests and Climate Change is that by 2021 the rate of deforestation in 54 million hectares of primary forests under various categories of land management will be reduced to zero, contributing, together with other initiatives, to reducing 47.5% of GHG emissions in the country, generated by changes in land use; as well as reducing vulnerability to climate change. |
| DS No. 011-2015-MINAM "National                                                                                                                                   | September 23rd, 2015 | It is based on adaptation to the adverse effects and takes advantage of the opportunities imposed by climate change,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Laws                                                                              | Term             | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategy on Climate Change” update of DS No 086-2003-PCM                          |                  | laying the foundations for low-carbon sustainable development. The main objectives are for the population, economic agents and the state to increase awareness and adaptive capacity for action against the adverse effects and opportunities of climate change and; for the population, economic agents and the state to conserve carbon reserves and contribute to the reduction of GHG emissions. The means necessary for implementation are based on institutional and governance, public awareness and capacity building, scientific knowledge and technology, and financing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Law 26839 “Law on the Conservation and Sustainable Use of Biological Diversity”   | July 17th, 1997  | It regulates the general framework for the conservation of biological diversity and the sustainable use of its components. It includes provisions for planning, inventory and monitoring, conservation mechanisms, rural and indigenous communities, and scientific and technological research. The Act establishes that the principles and definitions of the Convention on Biological Diversity govern its implementation and contains a title on protected natural areas, which is consistent with the provisions of Act No. 26834.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Law 26821 “Organic Law for the Sustainable Use of Natural Resources”              | June 27th, 1997  | It regulates the general framework for the sustainable use of natural resources, as they are part of the Nation's heritage. This law establishes that the natural resources maintained at their source, whether they are renewable or nonrenewable, are part of the Nation's heritage. The fruits and products of the natural resources, obtained in the manner established in this Act, are the property of the holders of the rights granted over them. The rights over natural resources are granted to individuals through concessions, permits, and authorizations in accordance with the conditions established by the special rules for each resource. The special rules include the mechanisms for financial compensation to the State for the granting thereof, the maintenance of the right in force, the conditions for registration in the appropriate registry, and the possibility of assignment between individuals. This means that ownership, i.e. the ownership of the fruits and products obtained in accordance with this organic law, belongs to the holders of the rights granted over the areas where the natural resources providing them are located. The regulation for the grant of rights to private individuals for the use of natural resources, renewable and non-renewable, varies according to the nature of such resources. |
| DL No. 997 “Law on the Organization and Functions of the Ministry of Agriculture” | March 13th, 2008 | The Ministry of Agriculture is the governing body of the agricultural sector and establishes the National Agricultural Policy, which is mandatory at all levels. Likewise, the Agrarian Sector includes the lands of agricultural use, of shepherding, the forest lands, the deserted lands with agrarian aptitude, the forest resources and their use; the flora and fauna; the hydric resources; the agrarian infrastructure; the activities of production, transformation and commercialization of crops and of breeding; and the services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Laws                                                                                                                                                                   | Term                 | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                        |                      | and activities linked to the agrarian activity such as the health, the investigation, the training, the extension and the transference of agrarian technology.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DL No. 1085 Establishes the Forest and Wildlife Resources Monitoring Agency"                                                                                           | June 28th, 2008      | It created OSINFOR, which is responsible for supervising and overseeing the sustainable use and conservation of forest and wildlife resources, as well as the environmental services provided by the State through the various forms of use recognized in the Forestry and Wildlife Law and its regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DS No. 030-2005-AG "Approve regulations for the Implementation of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) in Peru" | July 10th, 2005      | This standard is intended to regulate CITES provisions and establish the conditions and requirements for trade, trafficking and possession of species included in them CITES Appendices I, II and III. Its provisions are intended to ensure compliance with all the precepts of the Convention, with the purpose and to protect the species of wild fauna and flora threatened due to their intense trade. It was modified and updated by Supreme Decree No. 001-2008-MINAM where the Ministry of Agriculture (through SERFOR) and the Ministry of Production are designated as CITES Administrative Authorities Peru, to the Ministry of Environment as CITES Peru Scientific Authority.                                                                                                                                                                                                                                                                                                                                   |
| DS No. 009-2013-MINAGRI "National Forest and Wildlife Policy"                                                                                                          | August 14th, 2013    | The National Forest and Wildlife Policy is a state policy that involves all levels of government and public and private actors, being mandatory for regional governments. The purpose is to contribute to the sustainable development of the country, through an adequate management of the National Forest and Wildlife Heritage, which ensures its sustainable use, conservation, protection and increase, for the provision of ecosystem goods and services, forestry, other ecosystems of wild vegetation and wildlife, in harmony with the social, cultural, economic and environmental interest of the Nation through five political axes: institutionalism and governance; sustainability; competitiveness; social inclusion and intercultural and; knowledge, science and technology.                                                                                                                                                                                                                                |
| Law No. 29763 "Forestry and Wildlife Law" and its four Regulations                                                                                                     | September 30th, 2015 | Aims to promote the conservation, protection, increase and sustainable use of forest and wildlife heritage within the national territory, integrating its management with the maintenance and improvement of forest and other wild vegetation ecosystem services, in harmony with the social, economic and environmental interest of the Nation; as well as to promote forest development, improve its competitiveness, generate and increase forest and wildlife resources and their value to society. The purpose of this Law is to establish the legal framework to regulate, promote and supervise forestry and wildlife activities in order to achieve their purpose. Article 13 creates the Forestry and Wildlife Service (SERFOR) as a specialized technical public body, being the National Forestry and Wildlife Authority. Likewise, the SERFOR is the governing body of the National System of Forestry and Wildlife Management (SINAFOR) and is constituted as its technical-normative authority at the national |

| Laws | Term | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |      | <p>level, in charge of dictating the rules and establishing the procedures related to its scope. It coordinates its technical operation and is responsible for its proper functioning. With regard to its functions, Article 14 highlights paragraph e) To monitor compliance with the obligations of the rights granted under its jurisdiction and to sanction violations arising from its failure to comply, respecting the powers of the Forestry and Wildlife Oversight Organization (OSINFOR), the Environmental Assessment and Monitoring Agency (OEFA), regional and local governments and other public bodies; paragraph g) Exercise the function of Authority of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) in Peru for the specimens of the species of wild flora and fauna that reproduce on land, including all kinds of amphibians and emerging aquatic flora. Article 18 of the Forestry and Wildlife Oversight Organization (OSINFOR) is responsible for supervising and monitoring the sustainable use and conservation of forest and wildlife resources and the services provided by forest and other wild vegetation ecosystems, granted by the State through enabling titles regulated by this Act. The SERFOR and the regional and local governments, through their corresponding officials, compulsorily inform OSINFOR about the forest and wildlife management, the scope and status of the enabling titles granted, under administrative responsibility and without prejudice to civil and criminal liabilities. OSINFOR reaches in a timely manner all information that may be useful for the administration and control of forest and wildlife resources to the corresponding entity. In article 19, the regional government is the regional forestry and wildlife authority (ARFFS).</p> <p>Article 23. Forest and wildlife manager is the natural person with training and professional experience in the area that requires being managed and registered in the National Registry of Forest and Wildlife Regents, who formulates and subscribes to forest management or wildlife. He is responsible for directing the activities in application of the approved management plan, to guarantee the sustainability of the forest resource. It is jointly and severally responsible with the holder or holder of the enabling title of the veracity of the content of the management plan and its implementation, as well as the correct issuance of the forest transport guides.</p> <p>Article 29. Permanent production forests are established by ministerial resolution of the Ministry of the Environment, at the proposal of SERFOR, in category I and II forests, for the purpose of permanent production of wood and other forest products other than wood, as well as wildlife and the provision of ecosystem services. The State promotes the integrated management of these forests. To this end, the regional forestry and wildlife authority prepares, directly or</p> |

| Laws                                                                                                                       | Term                 | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                            |                      | through third parties, and approves the Master Management Plan containing, at a minimum, the identification of sites requiring special treatment to ensure the sustainability of harvesting, access routes, common roads and control points. Prior to its establishment, the State carries out the environmental impact assessment and consults the population that may be affected by its establishment.                                                                                                                                                                                                                                                               |
| DL No. 1085 "Law that creates the agency for the Supervision of Forest and Wildlife Resources"                             | June 28th, 2008      | OSINFOR is attached to the Presidency of the Council of Ministers and constitutes a budgetary statement. It is the entity in charge, at the national level, of supervising and monitoring the use and conservation of forest and wildlife resources, as well as environmental services from the forest, for their sustainability, in accordance with the national policy and strategy for integrated management of natural resources and the policies on environmental services established by the Ministry of the Environment, within the scope of its competence. OSINFOR's competencies do not involve Natural Protected Areas, which are governed by their own Law. |
| DS No. 007-2013-MINAGRI<br>"Regulation of Organization and Functions of the National Forest and Wildlife Service - SERFOR" | July 18th, 2013      | It is the national forestry and wildlife authority, which exercises its powers and functions at the national, regional and local levels, is subject to the regulatory framework on the subject and acts in accordance with national policies, plans and objectives, constituting the governing body of the National System of Forestry and Wildlife Management, hereinafter SINAFOR, and its technical-normative authority, responsible for issuing regulations and establishing procedures related to the area of its competence.                                                                                                                                      |
| DS No. 018-2015-MINAGRI<br>"Regulation for Forest Management"                                                              | September 30th, 2015 | The regulation aims to promote the conservation, protection, enhancement and sustainable use of the forest heritage, integrating its management with the maintenance and improvement of forest and other wild vegetation ecosystem services. This applies to the different natural or legal persons, of public or private law, linked to the management of forests and wildlife, to the sustainable use of forest resources, to the services of the ecosystems of wild vegetation and to the forest and other forestry and related activities, throughout the national territory.                                                                                       |
| Law No. 29263<br>"Law on Ecological Crimes"                                                                                | October 2nd, 2008    | Law that modifies the penal types of ecological and environmental crimes and typifies their aggravated figures, such as illegal trafficking of protected wild flora and fauna species, illegal trafficking of aquatic species of protected wild flora and fauna, illegal extraction of aquatic species, depredation of protected flora and fauna, illegal trafficking of genetic resources, crimes against forests and forest formations, among other related crimes.                                                                                                                                                                                                   |
| Resolución de Dirección Ejecutiva N° D000040-2023-MIDAGRI-SERFOR-DE                                                        | February 20th, 2023  | Approve the 'Action Plan for the proper implementation of the inclusion of Shihuahuaco (genus <i>Dipterix</i> ) and Tahuari (genus <i>Handroanthus</i> ) in Appendix II of CITES, years 2023 and 2024' which is an integral part of this Resolution.                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 2.5.2 Relevant Laws and Regulations Related to Worker's Rights (VCS, 3.18, 3.19; CCB, G3.11)

**Table 2.32 Worker's Rights Legal Framework**

| Norm                                                                                       | Effective Date       | Relevant articles demonstrating compatibility with the layout/implementation of the Project                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEGISLATIVE DECREE 728 (TUO SUPREME DECREE 003-97-TR) PRODUCTIVITY AND COMPETITIVENESS LAW | March 28th, 1997     | This law promotes the massive access to employment through special programs and stimulates productive private sector investment. Furthermore, it improves levels of appropriateness in the country so substances, as well as combating unemployment and underemployment. Finally, ensures job security and incomes of workers, while respecting the constitutional rules of job security. |
| SUPREME DECREE 001-96-TR PRODUCTIVITY AND COMPETITIVENESS REGULATION                       | January 26th, 1996   | This regulation develops and specifies the objectives and tenets of Legislative Decree 728.                                                                                                                                                                                                                                                                                               |
| LAW 29245 THIRD-PARTY SERVICES PROVIDER LAW                                                | June 26th, 2008      | This law regulates private third-party services. Also it regulates the cases from outsourcing, the requirements, rights and obligations, and penalties for companies that distort the use of this method for corporate engagement.                                                                                                                                                        |
| SUPREME DECREE 006-2008-TR THIRD-PARTY SERVICES PROVIDER REGULATIONS                       | September 12th, 2008 | This regulation develops and specifies the objectives and tenets of Law 29245.                                                                                                                                                                                                                                                                                                            |
| TUO SUPREME DECREE 001-97-TR SENIORITY BENEFITS LAW                                        | March 1st, 1997      | This law regulates compensation for length of service that has the quality of social benefit provision of contingencies that causes the cessation of work and promotion of workers and their families.                                                                                                                                                                                    |
| SUPREME DECREE 004-97-TR SENIORITY BENEFITS REGULATION                                     | April 15th, 1997     | This regulation develops and specifies the objectives and tenets of Supreme Decree 001-97-TR                                                                                                                                                                                                                                                                                              |
| LEGISLATIVE DECREE 713 VACATION LAW                                                        | November 8th, 1991   | This law regulates the consolidation of the benefits provided by the existing labor laws.                                                                                                                                                                                                                                                                                                 |
| SUPREME DECREE 012-92-TR VACATION REGULATION                                               | December 3rd, 1992   | This regulation develops and specifies the objectives and tenets of Legislative Decree 713.                                                                                                                                                                                                                                                                                               |
| LAW 27735 HALF/END-OF-YEAR HOLIDAY BONUSSES LAW                                            | May 8th, 2002        | This law establishes the right of workers subject to the labor of the private sector to receive two bonuses in the year, among others.                                                                                                                                                                                                                                                    |
| SUPREME DECREE 005-2002-TR HALF/END-OF-YEAR HOLIDAY BONUSSES REGULATION                    | July 4th, 2002       | This regulation develops and specifies the objectives and tenets of Law 27735.                                                                                                                                                                                                                                                                                                            |
| LEGISLATIVE DECREE 892 PROFIT SHARING LAW                                                  | November 8th, 1996   | This standard regulates the right of workers to participate in the profits of companies that develop income-generating activities.                                                                                                                                                                                                                                                        |
| SUPREME DECREE 009-98-TR PROFIT SHARING REGULATION                                         | November 6th, 1998   | This regulation develops and specifies the objectives and tenets of Supreme Decree 009-98-TR.                                                                                                                                                                                                                                                                                             |

| Norm                                                                                        | Effective Date      | Relevant articles demonstrating compatibility with the layout/implementation of the Project                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEGISLATIVE DECREE 688 SOCIAL BENEFITS CONSOLIDATION LAW                                    | 5th, 1991           | This law regulates social benefits for workers.                                                                                                                                                                                                                                                                         |
| SUPREME DECREE 024-2001-TR SOCIAL BENEFITS CONSOLIDATION REGULATION                         | July 22nd, 2001     | This regulation develops and specifies the objectives and tenets of Legislative Decree 688.                                                                                                                                                                                                                             |
| SUPREME DECREE 007-2002-TR LAW ON DAYS OF WORK, HOURS AND OVERTIME                          | July 4th, 2002      | This law regulates days of work, hours and overtime in benefit of workers and proceedings for Peruvian labor authority and registries in order to organize quality and quantity of work hours. Finally, it sets the maximum days and hours of work, including for night work, and regulate overtime.                    |
| SUPREME DECREE 008-2002-TR REGULATION ON DAYS OF WORK HOURS AND OVERTIME                    | July 4th, 2002      | This regulation develops and specifies the objectives and tenets of Supreme Decree 008-2002-TR.                                                                                                                                                                                                                         |
| LEGISLATIVE DECREE 25593 (TUO SUPREME DECREE 010-2003-TR) LAW ON COLLECTIVE LABOR RELATIONS | October 5th, 2003   | This law regulates union's freedom, i.e., all those relations through which workers can bargain collectively for better working conditions or otherwise.                                                                                                                                                                |
| SUPREME DECREE 011-92-TR REGULATION ON COLLECTIVE LABOR RELATIONS                           | October 14th, 1992  | This regulation develops and specifies the objectives and tenets of Law on Collective Labor Relations.                                                                                                                                                                                                                  |
| LAW 28806 LABOR INSPECTION LAW                                                              | July 22nd, 2006     | This law aims to regulate the labor inspection system, its composition, organization structure, powers and duties in accordance with Convention 81 of the International Labor Organization.                                                                                                                             |
| SUPREME DECREE 019-2006-TR REGULATION OF LABOR INSPECTION SYSTEM                            | September 1st, 2007 | This regulation develops and specifies the objectives and tenets of Law 28806.                                                                                                                                                                                                                                          |
| LAW 26636 PROCEDURAL LABOR LAW                                                              | June 21st, 1996     | This law regulates all the judicial procedures that workers and employers need to do in order to access justice.                                                                                                                                                                                                        |
| SUPREME DECREE 039-91-TR INTERNAL REGULATION                                                | December 30th, 1991 | Every employer who employs more than 100 workers is required to have internal work regulations. The regulation must contain the main provisions of the labor regulations in force and will be approved by the administrative labor authority upon presentation. Workers who consider that the regulation violates legal |

| Norm | Effective Date | Relevant articles demonstrating compatibility with the layout/implementation of the Project |
|------|----------------|---------------------------------------------------------------------------------------------|
|      |                | or conventional provisions in force at the workplace may take legal action.                 |

**BENEFICIOS LABORALES:**

- SUELDO BASICO:** S/. 930
- GRATIFICACIONES O AGUINALDOS:** 2 Sueldos al año
- CTS:** 1 Sueldo al año
- VACACIONES:** 30 días libres pagados después de 1 año
- ASIGNACIÓN FAMILIAR:** S/. 93 Por hijos menores de edad
- LICENCIAS PAGADAS:** Paternidad, Maternidad, Participación de ganancias, Feriado
- PAGO DE SOBRETIEPOS:** Pago de Horas extras

**SEGUROS DE SALUD:**

- SCTR:** Salud y Pensión cubre los accidentes en el trabajo
- ESSALUD:** (Puedes atender en línea y/o Puerto haciendo tu propio diagnóstico)
- SEGURO VIDALEY:** Desde el 1er día de trabajo.
- Acceso a pago por licencias:** S/. 820

**TODOS SOMOS PARTE DE MADERACRE, SOMOS UNA GRAN FAMILIA**

**OFRECEMOS LINEA DE CARRERA (DESARROLLO PERSONAL Y PROFESIONAL)**

Nuestros colaboradores son promovidos a posiciones de mayor responsabilidad y con ello se les brinda incremento salarial porque valoramos su esfuerzo y compromiso. Cada 6 meses los líderes de área evaluarán tu desempeño.

Con Maderacre, creces tú y tu familia.

**BENEFICIOS QUE OTORGA LA EMPRESA**

En Maderacre y Matim brindamos todos los beneficios laborales y adicionalmente beneficios corporativos

**UBICAMOS EN**

CAR. INTEROCEANICA SUR KM 227, INAPAR

**AREA DE PERSONAL**

**CEL. 995381308**

Figure 2.8 Company brochure about labor benefits

### 2.5.3 Human Rights (VCS, 3.19)

The Project recognizes the rights of indigenous peoples and native communities through various actions in its Forestry Management Plan and Social Development Plan that allow the Project's activities to be proposed taking into account the social and cultural characteristics of these population groups. In the social sphere of the Project, the Belgica Native Community has been living peacefully with the Project and benefiting from the main actions of the Project, with which agreements are being developed to strengthen their local culture, customs, crafts, health and intercultural education. On the other hand, given the proximity of some sectors of the Project concession to areas of occupation of indigenous people in voluntary isolation, the Project proposes actions for the preservation of these sectors. The actions that contribute to these aspects are:

- Health agreement with the Native Community of Belgium, which refers to providing health professionals and supplies for their work in the community.
- Education agreement with the Native Community of Belgium, which contributes to access to intercultural education.
- Agreement with Alto Purús National Park (2020 - 2021).
- Personal training for forest and third parties (2020 - 2021).
- PIACI Contingency Plan - Protocol (2020 - 2021)
- Training to the surveillance posts (2020 - 2021)
- Dissemination of protocol to the community (2020 - 2021)
- Taricayas Project Agreements (2020)
- Patrolling Activity Agreements (2020)
- Vaccination Campaigns (2021)
- Taricaya Management Implementation (2021)

### 2.5.4 Indigenous Peoples and Cultural Heritage (VCS, 3.18, 3.19)

As mentioned above, the Project contributes to the preservation of the local culture through the good relations and benefits it provides to the local communities. Specifically, to the native Belgian community located in the Project's area of influence. In this sense, it contributes to the cultural heritage of the community and the population of Iñapari.

### 2.5.5 Recognition of Property Rights (VCS, 3.7, 3.18, 3.19; CCB, G5.1)

As described in the PD, the forest concession granted to MADERACRE SAC has not any type of conflicts neither with other legal rights nor with consuetudinary rights of ancient traditional communities. The project area has been used for timber extraction for many decades, so no other rights are disputed over this area. It must be remembered that the concession was granted in 2002 over previous forest areas, in most of the cases already managed by the same companies/persons previously

#### 2.5.6 Benefit Sharing Mechanism (VCS, 3.18, 3.19)

According to section 2.5.5, benefit sharing mechanism is not applicable to the project.

#### 2.5.7 Free, Prior, and Informed Consent (VCS, 3.18, 3.19; CCB, G5.2)

The communication processes towards the Native Community of Belgium about the occupation of the Project in the area has been carried out in the first years of implementation of the concession, therefore, the Native Community of Belgium forms the advisory committee with which the Project meets twice a year to learn about the contributions of the community to the Project and information on the actions carried out by the Project each year. During the verification period (2020 -2021) 04 consultative committees were held with the convocation and presence of the Belgian Native Community. As shown in item 2.3.4. Informational Meetings with Stakeholders (VCS, 3.18, 3.19; CCB, G3.1)

The Project does not establish occupation of indigenous peoples' territory. The extension of the Project area falls under the concession property; in this sense the FPIC does not apply.

#### 2.5.8 Property Right Protection (VCS, 3.18, 3.19; CCB, G5.3)

The Project has not resulted in the involuntary relocation of property right holders involving the relocation of their social activities or livelihoods. As mentioned, the Project is located within the Maderacre concession.

#### 2.5.9 Identification of Illegal Activity (VCS, 3.19, CCB, G5.4)

MADERACRE SAC is a company built on solid and transparent principles, where there is no room for illegal activities. MADERACRE SAC ensures that the financing of its activities, including the development and implementation of the Tahuamanu Amazon REDD Project, comes from the same productive activity of the business and the financing of banking institutions.

#### 2.5.10 Ongoing Disputes (VCS, 3.18, 3.19; CCB, G5.5)

No ongoing disputes are pending to be solved within the project area. To confirm that, the borders of the concession are clearly signaled with physical milestones, 39 at all, settled at approximate equivalent distances, that cover the 100% of the project boundaries.

## 3 CLIMATE

### 3.1 Monitoring GHG Emission Reductions and Removals

#### 3.1.1 Data and Parameters Available at Validation (VCS, 3.16)

|                                                                                                     |                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                                             | <i>CF</i>                                                                                                                                                                                                              |
| <b>Data unit</b>                                                                                    | Mg C (Mg DM) <sup>-1</sup>                                                                                                                                                                                             |
| <b>Description</b>                                                                                  | Carbon fraction of dry matter in wood                                                                                                                                                                                  |
| <b>Source of data</b>                                                                               | Default value of 0.5 (VM0006)                                                                                                                                                                                          |
| <b>Value applied</b>                                                                                | 0.50 (Tropical region; wood, tree d ≥ 10 cm)                                                                                                                                                                           |
| <b>Justification of choice of data or description of measurement methods and procedures applied</b> | According to the IPCC, the default value for tropical region is 0.49 Mg C (Mg DM) <sup>-1</sup> is applicable for wood, tree with d ≥ 10 cm all three tiers when remaining forest land, forest land or biomass carbon. |
| <b>Purpose of data</b>                                                                              | Calculation of baseline emissions, Calculation of project emissions; Determination of baseline scenario, Calculation of leakage                                                                                        |
| <b>Comments</b>                                                                                     | 1 Mg C (Mg DM) <sup>-1</sup> <> 1 t C (t DM) <sup>-1</sup>                                                                                                                                                             |

|                         |                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b> | <i>SC<sub>1</sub></i>                                                                                                      |
| <b>Data unit</b>        | -                                                                                                                          |
| <b>Description</b>      | First shape factor for the forest scarcity equation; steepness of the decrease in deforestation rate (greater is steeper). |
| <b>Source of data</b>   | See Appendix 2. Estimation of Scarcity Factor.                                                                             |
| <b>Value applied</b>    | -15.06                                                                                                                     |

|                                                                                                     |                                                |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Justification of choice of data or description of measurement methods and procedures applied</b> | See Appendix 2. Estimation of Scarcity Factor. |
| <b>Purpose of data</b>                                                                              | Calculation of baseline emissions              |
| <b>Comments</b>                                                                                     | -                                              |

|                                                                                                     |                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                                             | SC <sub>2</sub>                                                                                                                                               |
| <b>Data unit</b>                                                                                    | -                                                                                                                                                             |
| <b>Description</b>                                                                                  | Second shape factor for the forest scarcity equation; relative deforested area at which the deforestation rate will be 50% of the initial deforestation rate. |
| <b>Source of data</b>                                                                               | See Appendix 2. Estimation of Scarcity Factor.                                                                                                                |
| <b>Value applied</b>                                                                                | 0.6683                                                                                                                                                        |
| <b>Justification of choice of data or description of measurement methods and procedures applied</b> | See Appendix 2. Estimation of Scarcity Factor.                                                                                                                |
| <b>Purpose of data</b>                                                                              | Calculation of baseline emissions                                                                                                                             |
| <b>Comments</b>                                                                                     | -                                                                                                                                                             |

|                         |                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b> | wwf(ty)                                                                                                                                                                                                                                                                       |
| <b>Data unit</b>        | -                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Fraction of carbon in harvested wood products that are emitted immediately because of mill inefficiency for wood class <i>ssee</i> . This can be estimated by multiplying the applicable fraction to the total amount of carbon in different harvested wood product category. |

|                                                                                                     |                                                                                                                          |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Source of data</b>                                                                               | The default applicable fraction is 24% and 19% respectively for developing and developed countries (Winjum et al. 1998). |
| <b>Value applied</b>                                                                                | 24% for being a developing country.                                                                                      |
| <b>Justification of choice of data or description of measurement methods and procedures applied</b> | Winjum et al. 1998 states that the default fraction is 24% for developing countries.                                     |
| <b>Purpose of data</b>                                                                              | Calculation of project emissions.                                                                                        |
| <b>Comments</b>                                                                                     | Any new updates from locally generated results can be used instead of the default values.                                |

|                                                                                                     |                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                                             | <i>slp(ty)</i>                                                                                                                                                                                                      |
| <b>Data unit</b>                                                                                    | -                                                                                                                                                                                                                   |
| <b>Description</b>                                                                                  | Proportion of short-lived products                                                                                                                                                                                  |
| <b>Source of data</b>                                                                               | Default values are 0.2, 0.1, 0.4 and 0.3 respectively for wood class <i>ssee</i> , i.e., sawn wood, wood-based panel, paper and paper boards and other industrial round woods as described in Winjum et al. (1998). |
| <b>Value applied</b>                                                                                | 0.2 for being sawn wood                                                                                                                                                                                             |
| <b>Justification of choice of data or description of measurement methods and procedures applied</b> | Winjum et al. (1998) provides the above values for sawn wood, wood-based panel, paper/paper boards and industrial roundwood                                                                                         |
| <b>Purpose of data</b>                                                                              | Calculation of project emissions                                                                                                                                                                                    |
| <b>Comments</b>                                                                                     | Any new updates from locally generated results can be used instead of the default values. The methodology assumes that all other classes of wood products are emitted within 5 years.                               |

|                                                                                                     |                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                                             | $f_o(ty)$                                                                                                                                                                       |
| <b>Data unit</b>                                                                                    | -                                                                                                                                                                               |
| <b>Description</b>                                                                                  | Fraction of carbon that will be emitted to the atmosphere between 5 and 100 years of harvest for wood class <i>ssee</i> .                                                       |
| <b>Source of data</b>                                                                               | See Table 19 Methodology VM006 V2.2 pág 102 (Winjum et al. 1998)                                                                                                                |
| <b>Value applied</b>                                                                                | 0.85 for being Sawnwood from a tropical forest region                                                                                                                           |
| <b>Justification of choice of data or description of measurement methods and procedures applied</b> | Winjum et al. (1998) provides these values for the fraction of carbon that will be emitted into the atmosphere between 5 and 100 years after harvest for tropical wood classes. |
| <b>Purpose of data</b>                                                                              | Calculation of project emissions                                                                                                                                                |
| <b>Comments</b>                                                                                     | Any new updates from locally generated results can be used instead of the default values                                                                                        |

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|-----------------------|------|---------------------|------|-----------------------|------|--------------------|------|--------------------|------|-------------------|-----|-------------------|------|
| <b>Data / Parameter</b> | $\rho_{wood,j}$                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| <b>Data unit</b>        | Mg DM m <sup>-3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| <b>Description</b>      | Average basic wood density of species or species group <i>RR</i>                                                                                                                                                                                                                                                                                                                                                                                               |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| <b>Source of data</b>   | GPG-LULUCF Table 3A.1.9 and Woods of Peru from the Research Institute of the Peruvian Amazon (IIAP)<br><a href="http://www.iiap.org.pe/Upload/Publicacion/CDinvestigacion/inia/inia-p4/inia-p4-02.htm">http://www.iiap.org.pe/Upload/Publicacion/CDinvestigacion/inia/inia-p4/inia-p4-02.htm</a>                                                                                                                                                               |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| <b>Value applied</b>    | <table border="1"> <tbody> <tr><td>Apuleia leiocarpa</td><td>0.7</td></tr> <tr><td>Hymenaea oblongifolia</td><td>0.62</td></tr> <tr><td>Cariniana domestica</td><td>0.59</td></tr> <tr><td>Swietenia macrophylla</td><td>0.43</td></tr> <tr><td>Myroxylon balsamum</td><td>0.78</td></tr> <tr><td>Amburana cearensis</td><td>0.43</td></tr> <tr><td>Mezilaurus itauba</td><td>0.7</td></tr> <tr><td>Clarisia racemosa</td><td>0.59</td></tr> </tbody> </table> | Apuleia leiocarpa | 0.7 | Hymenaea oblongifolia | 0.62 | Cariniana domestica | 0.59 | Swietenia macrophylla | 0.43 | Myroxylon balsamum | 0.78 | Amburana cearensis | 0.43 | Mezilaurus itauba | 0.7 | Clarisia racemosa | 0.59 |
| Apuleia leiocarpa       | 0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| Hymenaea oblongifolia   | 0.62                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| Cariniana domestica     | 0.59                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| Swietenia macrophylla   | 0.43                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| Myroxylon balsamum      | 0.78                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| Amburana cearensis      | 0.43                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| Mezilaurus itauba       | 0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |
| Clarisia racemosa       | 0.59                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |     |                       |      |                     |      |                       |      |                    |      |                    |      |                   |     |                   |      |

|                                                                                                     |                                                                                                                                                                     |                            |      |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------|--|
|                                                                                                     |                                                                                                                                                                     | Crepidospermum goudotianum | 0.83 |  |
|                                                                                                     |                                                                                                                                                                     | Manilkara bidentata        | 0.87 |  |
|                                                                                                     |                                                                                                                                                                     | Aspidosperma excelsum      | 0.67 |  |
|                                                                                                     |                                                                                                                                                                     | Dipteryx odorata           | 0.93 |  |
|                                                                                                     |                                                                                                                                                                     | Tabebuia serratifolia      | 0.92 |  |
| <b>Justification of choice of data or description of measurement methods and procedures applied</b> | IPCC table 3A. 1.9-2 provides average basic wood densities for multiple species in Tropical America. In the same way that Research Institute of the Peruvian Amazon |                            |      |  |
| <b>Purpose of data</b>                                                                              | Calculation of project emissions                                                                                                                                    |                            |      |  |
| <b>Comments</b>                                                                                     | When no species-specific or species-group specific densities are available, an average representative density may be used for all species or species groups.        |                            |      |  |

### 3.1.2 Data and Parameters Monitored (VCS, 3.16)

|                                                                        |                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | <i>Size<sub>projectArea</sub>, Size<sub>leakageArea</sub>, Size<sub>ReferenceRegion</sub>, Size<sub>ReferenceForest</sub>.</i>                                                                                                                                                                                             |
| <b>Data unit</b>                                                       | ha                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>                                                     | Size of project area, leakage area, reference region, reference forest region                                                                                                                                                                                                                                              |
| <b>Source of data</b>                                                  | Geospatial information: Verra Search Page<br>Excel Monitoring report - VCU's Tahuamanu                                                                                                                                                                                                                                     |
| <b>Description of measurement methods and procedures to be applied</b> | Coverage and demarcations will be monitored and created using satellite imagery.                                                                                                                                                                                                                                           |
| <b>Frequency of monitoring/recording</b>                               | Size <sub>projectArea</sub> and Size <sub>leakageArea</sub> may be adjusted during crediting period per the rules for grouped projects and updated at verification, but only for the additional instances that were added after the project start date.<br><br>Permanent verification of the area of the project surfaces. |

| Value monitored                | Size <sub>projectArea</sub>                                                                                                               | Size <sub>leakageArea</sub> | Size <sub>ReferenceRegion</sub> | Size <sub>ReferenceForest</sub> |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|---------------------------------|
|                                | 169,956.81                                                                                                                                | 100,554.47                  | 523,510.20                      | 466,168.32                      |
| Monitoring equipment           | Satellite imagery and GeoBosques Satellite Information                                                                                    |                             |                                 |                                 |
| QA/QC procedures to be applied | Raster files were converted to vectors. Area was calculated for each vector and compared to calculations based on raster file.            |                             |                                 |                                 |
| Purpose of the data            | Calculation of baseline emissions, Calculation of project emissions; Determination of baseline scenario, Calculation of leakage emissions |                             |                                 |                                 |
| Calculation method             | It works with the vector file                                                                                                             |                             |                                 |                                 |
| Comments                       | No comment                                                                                                                                |                             |                                 |                                 |

|                                                                 |                                                                                                                                                                                |                       |                                                      |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------|
| Data / Parameter                                                | $\Delta area_{projectAreaEAH,projectScenario}(t, i)$                                                                                                                           |                       |                                                      |
| Data unit                                                       | ha yr <sup>1</sup>                                                                                                                                                             |                       |                                                      |
| Description                                                     | Hectares undergoing transition <i>ii</i> within the project area, excluding ANR and harvest areas, under the project scenario during year <i>ss</i> . [ha yr-1]. Section 8.2.3 |                       |                                                      |
| Source of data                                                  | Remote sensing analysis - Excel Monitoring report                                                                                                                              |                       |                                                      |
| Description of measurement methods and procedures to be applied | For the monitoring period within the project area, there is no deforestation, so there are no areas in transition.                                                             |                       |                                                      |
| Frequency of monitoring/recording                               | At least once before verification                                                                                                                                              |                       |                                                      |
| Value monitored                                                 | ((Project area – Area of felling plots) / Project area * $D_{projectAreaprojectScenario.DF(t)}$ )<br>$D_{projectAreaprojectScenario.DF^{(t)}}$ is equal to “0” for each year.  |                       |                                                      |
|                                                                 | Year                                                                                                                                                                           | Area of felling plots | $\Delta area_{projectAreaEAH,projectScenario}(t, i)$ |
|                                                                 | 2020                                                                                                                                                                           | 4,186.19              | 0.00                                                 |
|                                                                 | 2021                                                                                                                                                                           | 10,820.34             | 0.00                                                 |

|                                       |                                                                                                                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Monitoring equipment</b>           | Software GIS, images Landsat,                                                                                                                                         |
| <b>QA/QC procedures to be applied</b> | Field work or high-resolution images will be used to assess accuracy of results initially obtained. The application will be based on statistically robust parameters. |
| <b>Purpose of the data</b>            | Calculation of project emissions                                                                                                                                      |
| <b>Calculation method</b>             | It works with the vector file                                                                                                                                         |
| <b>Comments</b>                       | Data on the area of the felling plots can be found in the general forest management plan.                                                                             |

|                                                                 |                                                                                                                                                               |                       |                                                       |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------|
| Data / Parameter                                                | $\Delta area_{projectAreaEAH,BaselineScenario}(t, i)$                                                                                                         |                       |                                                       |
| Data unit                                                       | ha yr <sup>-1</sup>                                                                                                                                           |                       |                                                       |
| Description                                                     | Hectares undergoing transition <i>ii</i> within the project area, excluding the ANR area, and harvest areas, under the baseline scenario for year <i>ss</i> . |                       |                                                       |
| Source of data                                                  | Land-use change for Geobosques (MINAM) - Excel Monitoring report                                                                                              |                       |                                                       |
| Description of measurement methods and procedures to be applied | Follow the procedures described in Section 3.2.1                                                                                                              |                       |                                                       |
| Frequency of monitoring/recording                               | At least once before every baseline. For added instances, may be recalculated at verification.                                                                |                       |                                                       |
| Value monitored                                                 | ((Project area – Area of felling plots) / Project area * $D_{projectAreabaselineScenario.DF^{(t)}}$ )                                                         |                       |                                                       |
|                                                                 | $D_{projectAreabaselineScenario.DF^{(t)}}$ is equal to “0” for each year.                                                                                     |                       |                                                       |
|                                                                 | Year                                                                                                                                                          | Area of felling plots | $\Delta area_{projectAreaEAH,BaselineScenario}(t, i)$ |
|                                                                 | 2020                                                                                                                                                          | 4,186.19              | 887.05                                                |
|                                                                 | 2021                                                                                                                                                          | 10,820.34             | 920.99                                                |
| Monitoring equipment                                            | Software GIS, Landsat images                                                                                                                                  |                       |                                                       |
| QA/QC procedures to be applied                                  | Baseline scenario is defined once at validation. As this is not a grouped project, no new instances may be added.                                             |                       |                                                       |

|                            |                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------|
| <b>Purpose of the data</b> | Calculation of baseline emissions; Determination of baseline scenario                            |
| <b>Calculation method</b>  | Calculation of the area of the shapefile in vector format and Determination of baseline scenario |
| <b>Comments</b>            | Data on the area of the felling plots can be found in the general forest management plan.        |

|                                                                        |                                                                                                    |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $\Delta area_{projectAreaWithANR,baselineScenario}(t, i)$                                          |
| <b>Data unit</b>                                                       | ha yr <sup>-1</sup>                                                                                |
| <b>Description</b>                                                     | Hectares undergoing transition $i$ within the leakage area under the project scenario for year $t$ |
| <b>Source of data</b>                                                  | -                                                                                                  |
| <b>Description of measurement methods and procedures to be applied</b> | Not applicable.                                                                                    |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                  |
| <b>Value monitored</b>                                                 | -                                                                                                  |
| <b>Monitoring equipment</b>                                            | -                                                                                                  |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                  |
| <b>Purpose of the data</b>                                             | -                                                                                                  |
| <b>Calculation method</b>                                              | -                                                                                                  |
| <b>Comments</b>                                                        | Not applicable because ANR is not included as a project activity.                                  |

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| <b>Data / Parameter</b> | $\Delta area_{leakageArea,projectScenario}(t, i)$ |
| <b>Data unit</b>        | ha yr <sup>-1</sup>                               |

|                                                                 |                                                                                                                                                                                                                  |  |  |      |                                                    |  |      |        |  |      |        |  |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------|----------------------------------------------------|--|------|--------|--|------|--------|--|
| Description                                                     | Hectares undergoing transition <i>ii</i> within the leakage area under the project scenario for year <i>ss</i>                                                                                                   |  |  |      |                                                    |  |      |        |  |      |        |  |
| Source of data                                                  | Geobosques Data - Excel Monitoring report.                                                                                                                                                                       |  |  |      |                                                    |  |      |        |  |      |        |  |
| Description of measurement methods and procedures to be applied | Coverage and demarcations will be monitored and created using satellite imagery.                                                                                                                                 |  |  |      |                                                    |  |      |        |  |      |        |  |
| Frequency of monitoring/recording                               | At least once before verification                                                                                                                                                                                |  |  |      |                                                    |  |      |        |  |      |        |  |
| Value monitored                                                 | <table><tr><td>Year</td><td><math>\Delta area_{leakageArea, projectScenario}(t, i)</math></td><td></td></tr><tr><td>2020</td><td>574.01</td><td></td></tr><tr><td>2021</td><td>760.68</td><td></td></tr></table> |  |  | Year | $\Delta area_{leakageArea, projectScenario}(t, i)$ |  | 2020 | 574.01 |  | 2021 | 760.68 |  |
| Year                                                            | $\Delta area_{leakageArea, projectScenario}(t, i)$                                                                                                                                                               |  |  |      |                                                    |  |      |        |  |      |        |  |
| 2020                                                            | 574.01                                                                                                                                                                                                           |  |  |      |                                                    |  |      |        |  |      |        |  |
| 2021                                                            | 760.68                                                                                                                                                                                                           |  |  |      |                                                    |  |      |        |  |      |        |  |
| Monitoring equipment                                            | Software GIS, images Landsat                                                                                                                                                                                     |  |  |      |                                                    |  |      |        |  |      |        |  |
| QA/QC procedures to be applied                                  | high-resolution images will be used to assess accuracy of results initially obtained. The application will be based on statistically robust parameters.                                                          |  |  |      |                                                    |  |      |        |  |      |        |  |
| Purpose of the data                                             | Calculation of project emissions                                                                                                                                                                                 |  |  |      |                                                    |  |      |        |  |      |        |  |
| Calculation method                                              | Calculation of the area of the shapefile in vector format and Determination of baseline scenario                                                                                                                 |  |  |      |                                                    |  |      |        |  |      |        |  |
| Comments                                                        | Monitoring excel Sheet 2.                                                                                                                                                                                        |  |  |      |                                                    |  |      |        |  |      |        |  |

|                         |                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b> | $\Delta area_{leakageArea, baselineScenario}(t, i)$                                                                |
| <b>Data unit</b>        | ha yr <sup>-1</sup>                                                                                                |
| <b>Description</b>      | Hectares undergoing transition <i>ii</i> within the leakage area under the baseline scenario during year <i>ss</i> |
| <b>Source of data</b>   | Baseline - Excel Monitoring report                                                                                 |

| <b>Description of measurement methods and procedures to be applied</b> | Coverage and demarcations will be monitored and created using satellite imagery.                                                                                                                                                                             |      |                                                                   |      |          |      |          |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------|------|----------|------|----------|
| <b>Frequency of monitoring/recording</b>                               | Once every baseline update. May also be updated at the time of instance inclusion that requires new leakage area.                                                                                                                                            |      |                                                                   |      |          |      |          |
| <b>Value monitored</b>                                                 | <table border="1"> <thead> <tr> <th>Year</th><th><math>\Delta \text{area}_{\text{leakageArea, baselineScenario}}(t, i)</math></th></tr> </thead> <tbody> <tr> <td>2020</td><td>1,198.71</td></tr> <tr> <td>2021</td><td>1,494.72</td></tr> </tbody> </table> | Year | $\Delta \text{area}_{\text{leakageArea, baselineScenario}}(t, i)$ | 2020 | 1,198.71 | 2021 | 1,494.72 |
| Year                                                                   | $\Delta \text{area}_{\text{leakageArea, baselineScenario}}(t, i)$                                                                                                                                                                                            |      |                                                                   |      |          |      |          |
| 2020                                                                   | 1,198.71                                                                                                                                                                                                                                                     |      |                                                                   |      |          |      |          |
| 2021                                                                   | 1,494.72                                                                                                                                                                                                                                                     |      |                                                                   |      |          |      |          |
| <b>Monitoring equipment</b>                                            | Software GIS, Landsat images                                                                                                                                                                                                                                 |      |                                                                   |      |          |      |          |
| <b>QA/QC procedures to be applied</b>                                  | Baseline scenario is defined once at validation. As this is not a grouped project, no new instances may be added                                                                                                                                             |      |                                                                   |      |          |      |          |
| <b>Purpose of the data</b>                                             | Calculation of Baseline scenario                                                                                                                                                                                                                             |      |                                                                   |      |          |      |          |
| <b>Calculation method</b>                                              | Calculation of the area of the shapefile in vector format and Determination of baseline scenario                                                                                                                                                             |      |                                                                   |      |          |      |          |
| <b>Comments</b>                                                        | Monitoring Excel Sheet 2                                                                                                                                                                                                                                     |      |                                                                   |      |          |      |          |

|                                                                        |                                                                                                                      |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $\Delta \text{area}_{\text{historical}} (\text{CS1} \rightarrow \text{CS2}, t_1 \rightarrow t_2)$                    |
| <b>Data unit</b>                                                       | ha yr <sup>-1</sup>                                                                                                  |
| <b>Description</b>                                                     | Area of transition from LULC class or forest stratum 1 to 2 from time 1 to 2 during the historical reference period. |
| <b>Source of data</b>                                                  | Geobosques (MINAM) - Excel Monitoring report.                                                                        |
| <b>Description of measurement methods and procedures to be applied</b> | Calculate based on the remote sensing-based classification and stratification procedures detailed in Section 3.2.2.  |
| <b>Frequency of monitoring/recording</b>                               | At least once before every baseline update.                                                                          |

|                                |                                                                                                                                                                                                                                                                                                                                                                            |        |      |      |              |      |      |              |        |        |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|------|--------------|------|------|--------------|--------|--------|
| Value monitored                | <p>In this case, as indicated by the methodological deviation, all deforestation is considered to be caused by the pasture driver. Only one representative class and only one stratum.</p> <table><tr><td></td><td>2020</td><td>2021</td></tr><tr><td>Project area</td><td>0.00</td><td>0.00</td></tr><tr><td>Leakage belt</td><td>574.01</td><td>760.68</td></tr></table> |        | 2020 | 2021 | Project area | 0.00 | 0.00 | Leakage belt | 574.01 | 760.68 |
|                                | 2020                                                                                                                                                                                                                                                                                                                                                                       | 2021   |      |      |              |      |      |              |        |        |
| Project area                   | 0.00                                                                                                                                                                                                                                                                                                                                                                       | 0.00   |      |      |              |      |      |              |        |        |
| Leakage belt                   | 574.01                                                                                                                                                                                                                                                                                                                                                                     | 760.68 |      |      |              |      |      |              |        |        |
| Monitoring equipment           | Software GIS, Landsat images                                                                                                                                                                                                                                                                                                                                               |        |      |      |              |      |      |              |        |        |
| QA/QC procedures to be applied | -                                                                                                                                                                                                                                                                                                                                                                          |        |      |      |              |      |      |              |        |        |
| Purpose of the data            | Calculation of project emissions                                                                                                                                                                                                                                                                                                                                           |        |      |      |              |      |      |              |        |        |
| Calculation method             | Deviation                                                                                                                                                                                                                                                                                                                                                                  |        |      |      |              |      |      |              |        |        |
| Comments                       | The only post-deforestation land use considered is pastures as it has the highest carbon stock, making the land-use change emission factor more conservative.                                                                                                                                                                                                              |        |      |      |              |      |      |              |        |        |

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                     |        |  |  |      |      |              |      |      |              |        |        |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|--|------|------|--------------|------|------|--------------|--------|--------|
| Data / Parameter                                                | area <sub>historical</sub> (CS1, t1)                                                                                                                                                                                                                                                                                                                                |        |  |  |      |      |              |      |      |              |        |        |
| Data unit                                                       | ha                                                                                                                                                                                                                                                                                                                                                                  |        |  |  |      |      |              |      |      |              |        |        |
| Description                                                     | Total area of LULC class or forest stratum 1 at time 1                                                                                                                                                                                                                                                                                                              |        |  |  |      |      |              |      |      |              |        |        |
| Source of data                                                  | Geobosques (MINAM) - Excel Monitoring report.                                                                                                                                                                                                                                                                                                                       |        |  |  |      |      |              |      |      |              |        |        |
| Description of measurement methods and procedures to be applied | Calculate based on the remote sensing-based classification and stratification procedures detailed in Section 3.2.2                                                                                                                                                                                                                                                  |        |  |  |      |      |              |      |      |              |        |        |
| Frequency of monitoring/recording                               | At least once before every baseline update                                                                                                                                                                                                                                                                                                                          |        |  |  |      |      |              |      |      |              |        |        |
| Value monitored                                                 | In this case, as indicated by the methodological deviation, all deforestation is considered to be caused by the pasture driver. Only one representative class and only one stratum. <table><tr><td></td><td>2020</td><td>2021</td></tr><tr><td>Project area</td><td>0.00</td><td>0.00</td></tr><tr><td>Leakage belt</td><td>574.01</td><td>760.68</td></tr></table> |        |  |  | 2020 | 2021 | Project area | 0.00 | 0.00 | Leakage belt | 574.01 | 760.68 |
|                                                                 | 2020                                                                                                                                                                                                                                                                                                                                                                | 2021   |  |  |      |      |              |      |      |              |        |        |
| Project area                                                    | 0.00                                                                                                                                                                                                                                                                                                                                                                | 0.00   |  |  |      |      |              |      |      |              |        |        |
| Leakage belt                                                    | 574.01                                                                                                                                                                                                                                                                                                                                                              | 760.68 |  |  |      |      |              |      |      |              |        |        |

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| <b>Monitoring equipment</b>           | Software GIS, Landsat images.     |
| <b>QA/QC procedures to be applied</b> | -                                 |
| <b>Purpose of the data</b>            | Calculation of project emissions. |
| <b>Calculation method</b>             | -                                 |
| <b>Comments</b>                       | -                                 |

|                                                                        |                                                                                                  |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | Area <sub>biomassloss(i)</sub>                                                                   |
| <b>Data unit</b>                                                       | ha yr <sup>-1</sup>                                                                              |
| <b>Description</b>                                                     | Total annual area of LULC class that was cleared for creating firebreaks.                        |
| <b>Source of data</b>                                                  | Records of implemented activities or management plan.                                            |
| <b>Description of measurement methods and procedures to be applied</b> | No firebreaks created.                                                                           |
| <b>Frequency of monitoring/recording</b>                               | At least once before verification.                                                               |
| <b>Value monitored</b>                                                 | -                                                                                                |
| <b>Monitoring equipment</b>                                            | -                                                                                                |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                |
| <b>Purpose of the data</b>                                             | -                                                                                                |
| <b>Calculation method</b>                                              | -                                                                                                |
| <b>Comments</b>                                                        | Not applicable because biomass loss for creating firebreaks is not included in project activity. |

|                                                                        |                                                                                                                        |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | Areafirebiomassloss(i)                                                                                                 |
| <b>Data unit</b>                                                       | ha yr <sup>-1</sup>                                                                                                    |
| <b>Description</b>                                                     | Annual area of forest stratum that was cleared by using prescribed burning.                                            |
| <b>Source of data</b>                                                  | Records of implemented activities or management plan.                                                                  |
| <b>Description of measurement methods and procedures to be applied</b> | No prescribed fires activities were implemented.                                                                       |
| <b>Frequency of monitoring/recording</b>                               | At least once before verification.                                                                                     |
| <b>Value monitored</b>                                                 | -                                                                                                                      |
| <b>Monitoring equipment</b>                                            | -                                                                                                                      |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                      |
| <b>Purpose of the data</b>                                             | -                                                                                                                      |
| <b>Calculation method</b>                                              | -                                                                                                                      |
| <b>Comments</b>                                                        | Not applicable because biomass loss for creating firebreaks was not included in project activity nor prescribed fires. |

|                         |                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------|
| <b>Data / Parameter</b> | $area_{fireBiomassLoss,ANR}(t, i)$                                                   |
| <b>Data unit</b>        | ha                                                                                   |
| <b>Description</b>      | Area of biomass removed by prescribed burning within ANR stratum $i$ during year $t$ |
| <b>Source of data</b>   | Records of implemented activities or management plan                                 |

|                                                                 |                                                               |
|-----------------------------------------------------------------|---------------------------------------------------------------|
| Description of measurement methods and procedures to be applied | Not applicable.                                               |
| Frequency of monitoring/recording                               | -                                                             |
| Value monitored                                                 | -                                                             |
| Monitoring equipment                                            | -                                                             |
| QA/QC procedures to be applied                                  | -                                                             |
| Purpose of the data                                             | -                                                             |
| Calculation method                                              | -                                                             |
| Comments                                                        | Not applicable because ARN is not part of project activities. |

|                                                                 |                                                                                                               |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Data / Parameter                                                | $area_{projectAreaWithANR,projectScenario}(t, i)$                                                             |
| Data unit                                                       | ha                                                                                                            |
| Description                                                     | Amount of land on which ANR activities are planned under the project scenario for year $t$ and in stratum $i$ |
| Source of data                                                  | Records of implemented activities or management plan                                                          |
| Description of measurement methods and procedures to be applied | Not applicable.                                                                                               |
| Frequency of monitoring/recording                               | -                                                                                                             |
| Value monitored                                                 | -                                                                                                             |
| Monitoring equipment                                            | -                                                                                                             |

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| <b>QA/QC procedures to be applied</b> | -                                                             |
| <b>Purpose of the data</b>            | -                                                             |
| <b>Calculation method</b>             | -                                                             |
| <b>Comments</b>                       | Not applicable because ANR is not part of project activities. |

| Data / Parameter                                                | Area <sub>harvest</sub> (t, i)                                                                                        |                                                                                                                                                             |      |                                |      |           |      |           |  |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------|------|-----------|------|-----------|--|
| Data unit                                                       | ha                                                                                                                    |                                                                                                                                                             |      |                                |      |           |      |           |  |
| Description                                                     | Area of forest in harvest stratum <i>ii</i> that is harvested at time <i>ss</i> .<br>- Excel Monitoring report -      |                                                                                                                                                             |      |                                |      |           |      |           |  |
| Source of data                                                  | Project Description or Forest/Harvest Management Plan                                                                 |                                                                                                                                                             |      |                                |      |           |      |           |  |
| Description of measurement methods and procedures to be applied | Forest analysis described in PGMF                                                                                     |                                                                                                                                                             |      |                                |      |           |      |           |  |
| Frequency of monitoring/recording                               | At least once before verification                                                                                     |                                                                                                                                                             |      |                                |      |           |      |           |  |
| Value monitored                                                 |                                                                                                                       | <table><tr><th>Year</th><th>Area <sub>harvest</sub>(t, i)</th></tr><tr><td>2020</td><td>4,186.193</td></tr><tr><td>2021</td><td>10,820.34</td></tr></table> | Year | Area <sub>harvest</sub> (t, i) | 2020 | 4,186.193 | 2021 | 10,820.34 |  |
| Year                                                            | Area <sub>harvest</sub> (t, i)                                                                                        |                                                                                                                                                             |      |                                |      |           |      |           |  |
| 2020                                                            | 4,186.193                                                                                                             |                                                                                                                                                             |      |                                |      |           |      |           |  |
| 2021                                                            | 10,820.34                                                                                                             |                                                                                                                                                             |      |                                |      |           |      |           |  |
| Monitoring equipment                                            | GPS                                                                                                                   |                                                                                                                                                             |      |                                |      |           |      |           |  |
| QA/QC procedures to be applied                                  | Direct Spectral Unmixing Method (DSU), in the MINAM PDF document "Protocolo_Metodologico_Detection_Perdida_de_Bosque. |                                                                                                                                                             |      |                                |      |           |      |           |  |
| Purpose of the data                                             | Calculation of baseline emissions; Calculation of project emissions; Determination of baseline scenario.              |                                                                                                                                                             |      |                                |      |           |      |           |  |
| Calculation method                                              | It works with the vector file.                                                                                        |                                                                                                                                                             |      |                                |      |           |      |           |  |
| Comments                                                        | -                                                                                                                     |                                                                                                                                                             |      |                                |      |           |      |           |  |

|                                                                        |                                                                                                                                                                     |  |  |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Data / Parameter</b>                                                | $Area_{projectAreawithHarvest,ProjectScenario}(t, i)$                                                                                                               |  |  |
| <b>Data unit</b>                                                       | ha yr <sup>-1</sup>                                                                                                                                                 |  |  |
| <b>Description</b>                                                     | Size of strata <i>ii</i> within the project area with harvest activities during year <i>ss</i> under the project scenario.                                          |  |  |
| <b>Source of data</b>                                                  | Forest/Harvest Management Plan - Excel Monitoring report - VCU's Tahuamanu                                                                                          |  |  |
| <b>Description of measurement methods and procedures to be applied</b> | Forest analysis described in Forestal Management Plan                                                                                                               |  |  |
| <b>Frequency of monitoring/recording</b>                               | At least once before verification                                                                                                                                   |  |  |
| <b>Value monitored</b>                                                 | Area <sub>harvest</sub> (t, i)                                                                                                                                      |  |  |
|                                                                        | 4,186.193                                                                                                                                                           |  |  |
|                                                                        | 10,820.34                                                                                                                                                           |  |  |
| <b>Monitoring equipment</b>                                            | GPS                                                                                                                                                                 |  |  |
| <b>QA/QC procedures to be applied</b>                                  | Direct Spectral Unmixing Method (DSU), in the MINAM PDF document "Protocolo_Metodologico_Detection_Perdida_de_Bosque" and the general forest management plan (PGMF) |  |  |
| <b>Purpose of the data</b>                                             | Calculation of project emissions.                                                                                                                                   |  |  |
| <b>Calculation method</b>                                              | It works with the vector file.                                                                                                                                      |  |  |
| <b>Comments</b>                                                        | -                                                                                                                                                                   |  |  |

|                         |                                                                                                                       |  |  |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Data / Parameter</b> | $Area_{projectAreawithHarvest,BaselineScenario}(t, i)$                                                                |  |  |
| <b>Data unit</b>        | ha yr <sup>-1</sup>                                                                                                   |  |  |
| <b>Description</b>      | Hectares undergoing transition <i>ii</i> within the harvest areas under the baseline scenario during year <i>ss</i> . |  |  |
| <b>Source of data</b>   | Forest Management Plan - Excel Monitoring report.                                                                     |  |  |

|                                                                 |                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description of measurement methods and procedures to be applied | Through an exploratory inventory.                                                                                                                                                                                                                                                  |
| Frequency of monitoring/recording                               | At least once before every baseline update.                                                                                                                                                                                                                                        |
| Value monitored                                                 | <div><div><div><div>(Area<sub>projectAreawithHarvest,projectScenario</sub>(t, i) / Project area) * D<sub>projectArea,baselineScenario,DF</sub>(t,i)</div><div>Area<sub>projectAreawithHarvest,BaselineScenario</sub>(t, i)</div><div>22.40</div><div>62.62</div></div></div></div> |
| Monitoring equipment                                            | GPS, software & hardware, laptop, compass                                                                                                                                                                                                                                          |
| QA/QC procedures to be applied                                  | Direct Spectral Unmixing Method (DSU), in the MINAM PDF document "Protocolo_Metodologico_Detection_Perdida_de_Bosque. And the general forest management plan (PGMF).                                                                                                               |
| Purpose of the data                                             | Calculation of baseline emissions; Determination of baseline scenario.                                                                                                                                                                                                             |
| Calculation method                                              | Sheet 10                                                                                                                                                                                                                                                                           |
| Comments                                                        | -                                                                                                                                                                                                                                                                                  |

|                                                                        |                                                                                                                                                       |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | BetaRegDF (t)                                                                                                                                         |
| <b>Data unit</b>                                                       | ha yr <sup>-1</sup>                                                                                                                                   |
| <b>Description</b>                                                     | Beta regression model describing the relationship between time and deforestation rate in the reference region during the historical reference period. |
| <b>Source of data</b>                                                  | Historic forest degradation and deforestation modeling - Excel Monitoring report - VCU's Tahuamanu                                                    |
| <b>Description of measurement methods and procedures to be applied</b> | Procedure described in Section 8.1.5.1 or similar approach from peer-reviewed scientific literature.                                                  |

|                                   |                                                                                                                        |      |                                      |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------|
| Frequency of monitoring/recording | At least once every baseline update                                                                                    |      |                                      |
| Value monitored                   |                                                                                                                        | Year | BetaReg <sub>DF</sub> <sup>(t)</sup> |
|                                   |                                                                                                                        | 2017 | 3,883.64                             |
|                                   |                                                                                                                        | 2018 | 4,416.28                             |
|                                   |                                                                                                                        | 2019 | 5,003.30                             |
|                                   |                                                                                                                        | 2020 | 5,648.68                             |
|                                   |                                                                                                                        | 2021 | 6,355.38                             |
|                                   |                                                                                                                        | 2022 | 7,125.28                             |
|                                   |                                                                                                                        | 2023 | 7,959.03                             |
|                                   |                                                                                                                        | 2024 | 8,855.79                             |
|                                   |                                                                                                                        | 2025 | 9,813.07                             |
|                                   |                                                                                                                        | 2026 | 10,826.52                            |
| Monitoring equipment              | Statistical Software R                                                                                                 |      |                                      |
| QA/QC procedures to be applied    | Development of the beta regression with its different types of links with the consecutive selection of the best model. |      |                                      |
| Purpose of the data               | Calculation of baseline emissions, Determination of baseline scenario                                                  |      |                                      |
| Calculation method                | Applying a Beta Regression to historical values                                                                        |      |                                      |
| Comments                          | Changes were derived from application of methodology VM0015 v.1.1.                                                     |      |                                      |

#### Locations, Descriptions, Qualitative and Social Data

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b> | Area under agricultural intensification                                                                  |
| <b>Data unit</b>        | ha                                                                                                       |
| <b>Description</b>      | Size of the area of agricultural intensification separated for each agricultural intensification measure |
| <b>Source of data</b>   | Participatory rural appraisals                                                                           |

|                                                                        |                                                                                                      |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Description of measurement methods and procedures to be applied</b> | Calculate based on areas of cropland in the leakage and project areas                                |
| <b>Frequency of monitoring/recording</b>                               | At least once before verification                                                                    |
| <b>Value monitored</b>                                                 | -                                                                                                    |
| <b>Monitoring equipment</b>                                            | -                                                                                                    |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                    |
| <b>Purpose of the data</b>                                             | -                                                                                                    |
| <b>Calculation method</b>                                              | -                                                                                                    |
| <b>Comments</b>                                                        | Not applicable because agricultural intensification activities are not included in project activity. |

|                                                                        |                                                                                                                                                               |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $DFW_{baseline}$                                                                                                                                              |
| <b>Data unit</b>                                                       | $m^3 yr^{-1}$                                                                                                                                                 |
| <b>Description</b>                                                     | Annual volume of fuelwood gathered for domestic and local energy in the baseline scenario                                                                     |
| <b>Source of data</b>                                                  | Participatory rural appraisals<br>Recent (<10 yr) literature in the reference region<br>Recent (<10 yr) literature in an area similar to the reference region |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                                             |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                                                                             |

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Value monitored</b>                | -               |
| <b>Monitoring equipment</b>           | -               |
| <b>QA/QC procedures to be applied</b> | -               |
| <b>Purpose of the data</b>            | -               |
| <b>Calculation method</b>             | -               |
| <b>Comments</b>                       | Not applicable. |

|                                                                        |                                                                                                                                                               |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $DFW_{project}$                                                                                                                                               |
| <b>Data unit</b>                                                       | $m^3\ yr^{-1}$                                                                                                                                                |
| <b>Description</b>                                                     | Biomass (dry matter) of fuelwood collected by project participants under the project scenario.                                                                |
| <b>Source of data</b>                                                  | Participatory rural appraisals<br>Recent (<10 yr) literature in the reference region<br>Recent (<10 yr) literature in an area similar to the reference region |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                                             |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                                                                             |
| <b>Value monitored</b>                                                 | -                                                                                                                                                             |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                                             |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                                             |
| <b>Purpose of the data</b>                                             | -                                                                                                                                                             |
| <b>Calculation method</b>                                              | -                                                                                                                                                             |

|                 |                                                                  |
|-----------------|------------------------------------------------------------------|
| <b>Comments</b> | Not applicable. There is no consumption of fuelwood in the area. |
|-----------------|------------------------------------------------------------------|

|                                                                        |                                                                                                                                                                             |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $DFW_{allowed}$                                                                                                                                                             |
| <b>Data unit</b>                                                       | $m^3\ yr^{-1}$                                                                                                                                                              |
| <b>Description</b>                                                     | Biomass (dry matter) of allowed fuelwood collection in the project area under the project scenario. This amount is typically fixed in a management plan. [ $m^3\ yr^{-1}$ ] |
| <b>Source of data</b>                                                  | Forest management plan                                                                                                                                                      |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                                                           |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                                                                                           |
| <b>Value monitored</b>                                                 | -                                                                                                                                                                           |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                                                           |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                                                           |
| <b>Purpose of the data</b>                                             | -                                                                                                                                                                           |
| <b>Calculation method</b>                                              | -                                                                                                                                                                           |
| <b>Comments</b>                                                        | Not applicable. There is no consumption of fuelwood in the area.                                                                                                            |

|                         |                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b> | $VG_{baseline}$                                                                                                                     |
| <b>Data unit</b>        | $m^3\ yr^{-1}$                                                                                                                      |
| <b>Description</b>      | Biomass (dry matter) of understory vegetation extraction by project participants under the baseline scenario. [ $Mg\ DM\ yr^{-1}$ ] |

|                                                                        |                                                                                                                                                               |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Source of data</b>                                                  | Participatory rural appraisals<br>Recent (<10 yr) literature in the reference region<br>Recent (<10 yr) literature in an area similar to the reference region |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                                             |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                                                                             |
| <b>Value monitored</b>                                                 | -                                                                                                                                                             |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                                             |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                                             |
| <b>Purpose of the data</b>                                             | -                                                                                                                                                             |
| <b>Calculation method</b>                                              | -                                                                                                                                                             |
| <b>Comments</b>                                                        | Not applicable. Does not occur within the project area.                                                                                                       |

|                                                                        |                                                                                                                                                               |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $VG_{project}$                                                                                                                                                |
| <b>Data unit</b>                                                       | Mg DM yr <sup>-1</sup>                                                                                                                                        |
| <b>Description</b>                                                     | Biomass (dry matter) of understory vegetation extraction by project participants under the project scenario.                                                  |
| <b>Source of data</b>                                                  | Participatory rural appraisals<br>Recent (<10 yr) literature in the reference region<br>Recent (<10 yr) literature in an area similar to the reference region |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                                             |

|                                          |                                                         |
|------------------------------------------|---------------------------------------------------------|
| <b>Frequency of monitoring/recording</b> | -                                                       |
| <b>Value monitored</b>                   | -                                                       |
| <b>Monitoring equipment</b>              | -                                                       |
| <b>QA/QC procedures to be applied</b>    | -                                                       |
| <b>Purpose of the data</b>               | -                                                       |
| <b>Calculation method</b>                | -                                                       |
| <b>Comments</b>                          | Not applicable. Does not occur within the project area. |

|                                                                        |                                                                                                                                           |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | <i>VG<sub>allowed</sub></i>                                                                                                               |
| <b>Data unit</b>                                                       | Mg DM yr <sup>-1</sup>                                                                                                                    |
| <b>Description</b>                                                     | Biomass (dry matter) of understory vegetation extraction under the project scenario. This amount is typically fixed in a management plan. |
| <b>Source of data</b>                                                  | Forest management plan                                                                                                                    |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                         |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                                                         |
| <b>Value monitored</b>                                                 | -                                                                                                                                         |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                         |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                         |
| <b>Purpose of the data</b>                                             | -                                                                                                                                         |
| <b>Calculation method</b>                                              | -                                                                                                                                         |

| Comments                                                        | Not applicable. Does not occur within the project area.                                                                                                                         |  |  |      |       |      |           |      |           |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------|-------|------|-----------|------|-----------|
| Data / Parameter                                                | $CT_{baseline}(h, j, ty, t)$                                                                                                                                                    |  |  |      |       |      |           |      |           |
| Data unit                                                       | $m^3\ yr^{-1}$                                                                                                                                                                  |  |  |      |       |      |           |      |           |
| Description                                                     | Annually extracted volume of harvested timber round-wood for commercial on-sale under the baseline scenario during harvest by species j and wood product class ty during year t |  |  |      |       |      |           |      |           |
| Source of data                                                  | Project design, surveys, statistical records.                                                                                                                                   |  |  |      |       |      |           |      |           |
| Description of measurement methods and procedures to be applied | Cabinet work based on census results and legal minimum allowed DBH.                                                                                                             |  |  |      |       |      |           |      |           |
| Frequency of monitoring/recording                               | At least once before verification                                                                                                                                               |  |  |      |       |      |           |      |           |
| Value monitored                                                 | <table><tr><th>Year</th><th><math>m^3</math></th></tr><tr><td>2020</td><td>16,779.96</td></tr><tr><td>2021</td><td>19,084.50</td></tr></table>                                  |  |  | Year | $m^3$ | 2020 | 16,779.96 | 2021 | 19,084.50 |
| Year                                                            | $m^3$                                                                                                                                                                           |  |  |      |       |      |           |      |           |
| 2020                                                            | 16,779.96                                                                                                                                                                       |  |  |      |       |      |           |      |           |
| 2021                                                            | 19,084.50                                                                                                                                                                       |  |  |      |       |      |           |      |           |
| Monitoring equipment                                            | Computers, software, diametric ribbon, hypsometer, others.                                                                                                                      |  |  |      |       |      |           |      |           |
| QA/QC procedures to be applied                                  | A field brigade re-measures a percentage of measured trees                                                                                                                      |  |  |      |       |      |           |      |           |
| Purpose of the data                                             | Calculation of baseline emissions, Determination of baseline scenario                                                                                                           |  |  |      |       |      |           |      |           |
| Calculation method                                              | $\Sigma ((\pi * DBH^2)/4) * h$ for commercial species with DBH > minimum allowed                                                                                                |  |  |      |       |      |           |      |           |
| Comments                                                        | Same value as $CT_{project}(h, j, ty, t)$ . In Sheet 7 of excel file.                                                                                                           |  |  |      |       |      |           |      |           |

|                         |                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b> | $CT_{project}(h, j, ty, t)$                                                                                               |
| <b>Data unit</b>        | $m^3 yr^{-1}$                                                                                                             |
| <b>Description</b>      | Annually extracted volume of harvested timber round-wood for commercial on-sale inside the project area under the project |

|                                                                 | scenario during harvest $h$ by species $j$ and wood product class $ty$ during year $t$ .                                                                                                        |      |                |      |           |      |           |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------|------|-----------|------|-----------|
| Source of data                                                  | Project design, surveys, statistical records.                                                                                                                                                   |      |                |      |           |      |           |
| Description of measurement methods and procedures to be applied | Cabinet work based on census results and legal minimum allowed DBH.                                                                                                                             |      |                |      |           |      |           |
| Frequency of monitoring/recording                               | At least once before verification                                                                                                                                                               |      |                |      |           |      |           |
| Value monitored                                                 | <table border="1"> <thead> <tr> <th>Year</th><th>m<sup>3</sup></th></tr> </thead> <tbody> <tr> <td>2020</td><td>16,779.96</td></tr> <tr> <td>2021</td><td>19,084.50</td></tr> </tbody> </table> | Year | m <sup>3</sup> | 2020 | 16,779.96 | 2021 | 19,084.50 |
| Year                                                            | m <sup>3</sup>                                                                                                                                                                                  |      |                |      |           |      |           |
| 2020                                                            | 16,779.96                                                                                                                                                                                       |      |                |      |           |      |           |
| 2021                                                            | 19,084.50                                                                                                                                                                                       |      |                |      |           |      |           |
| Monitoring equipment                                            | Computers, software, diametric ribbon, hypsometer, others.                                                                                                                                      |      |                |      |           |      |           |
| QA/QC procedures to be applied                                  | A field brigade re-measures a percentage of measured trees                                                                                                                                      |      |                |      |           |      |           |
| Purpose of the data                                             | Calculation of baseline emissions, Determination of baseline scenario                                                                                                                           |      |                |      |           |      |           |
| Calculation method                                              | $\Sigma ((\pi * DBH^2)/4) * h$ for commercial species with DBH > minimum allowed                                                                                                                |      |                |      |           |      |           |
| Comments                                                        | In Sheet 7 of excel file.                                                                                                                                                                       |      |                |      |           |      |           |

|                                                                 |                                                                                                 |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Data / Parameter                                                | $Contribution_{DF}(d)$ and $Contribution_{DG}(d)$                                               |
| Data unit                                                       | -                                                                                               |
| Description                                                     | Relative contribution of driver $i$ respectively to total deforestation and forest degradation. |
| Source of data                                                  | GEOBOSQUES combined with Beta Regression.                                                       |
| Description of measurement methods and procedures to be applied | Application of the methodology based on GEOBOSQUES Data.                                        |

|                                          |                                                                              |
|------------------------------------------|------------------------------------------------------------------------------|
| <b>Frequency of monitoring/recording</b> | At least once before baseline update.                                        |
| <b>Value monitored</b>                   | Excel file, sheets “contribution” and “Deforestation rate”.                  |
| <b>Monitoring equipment</b>              | Computer.                                                                    |
| <b>QA/QC procedures to be applied</b>    | Constant and complete revisions in each update of the spreadsheets.          |
| <b>Purpose of the data</b>               | Calculation of baseline emissions, Determination of baseline scenario        |
| <b>Calculation method</b>                | $contribution_{DF}(i) = \frac{proportion_{DF}(d) \cdot L(d)}{\Delta C_{DF}}$ |
| <b>Comments</b>                          | -                                                                            |

|                                                                        |                                                                                                                                                                      |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | <i>RelativeDriverImpact<sub>DF</sub>(t,d) and RelativeDriverImpact<sub>DG</sub>(t,d)</i>                                                                             |
| <b>Data unit</b>                                                       | -                                                                                                                                                                    |
| <b>Description</b>                                                     | Relative impact of the geographically unconstrained driver <i>cc</i> at time <i>ss</i> of the crediting period respectively on deforestation and forest degradation. |
| <b>Source of data</b>                                                  | -                                                                                                                                                                    |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                                                    |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                                                                                    |
| <b>Value monitored</b>                                                 | -                                                                                                                                                                    |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                                                    |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                                                    |
| <b>Purpose of the data</b>                                             | -                                                                                                                                                                    |

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| <b>Calculation method</b> | -                                                                                                    |
| <b>Comments</b>           | Not applicable. No geographically unconstrained driver has been identified in the baseline scenario. |

|                                                                        |                                                                                                             |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | <i>leakage<sub>unconstrained</sub>(d)</i>                                                                   |
| <b>Data unit</b>                                                       | -                                                                                                           |
| <b>Description</b>                                                     | Leakage cancellation rate for avoiding deforestation/degradation from geographically unconstrained drivers. |
| <b>Source of data</b>                                                  | -                                                                                                           |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                           |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                           |
| <b>Value monitored</b>                                                 | -                                                                                                           |
| <b>Monitoring equipment</b>                                            | -                                                                                                           |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                           |
| <b>Purpose of the data</b>                                             | -                                                                                                           |
| <b>Calculation method</b>                                              | -                                                                                                           |
| <b>Comments</b>                                                        | Not applicable. A default value of 100% was used as recommended by the methodology.                         |

|                         |                            |
|-------------------------|----------------------------|
| <b>Data / Parameter</b> | <i>effectiveness(a, d)</i> |
| <b>Data unit</b>        | -                          |

|                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                                                     | Effectiveness of every project activity $a$ in decreasing any driver of deforestation $d$ relative to that driver's contribution to deforestation and forest degradation,                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source of data</b>                                                  | Relevant academic literature or documented expert opinion. - Excel Monitoring report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description of measurement methods and procedures to be applied</b> | <ul style="list-style-type: none"> <li>In the table 10 of the methodology for the effectiveness of the legal recognition of the land tenure status, Effectiveness &lt; 5 % [EQ43]</li> <li>In the table 12 of the methodology for the effectiveness of the demarcation and forest protection, Effectiveness = 100 % [EQ54].</li> <li>In the table 17 of the methodology for the effectiveness of the alternative livelihoods, Effectiveness = <math>0.75 * \left( \frac{\sum \text{income through alternative livelihood}}{\sum \text{Total value of forest products}} \right)</math> [EQ63].</li> </ul> |
| <b>Frequency of monitoring/recording</b>                               | At least once before baseline update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Value monitored</b>                                                 | Legal recognition of the land tenure status: 0.040<br>Demarcation and forest protection: 1.000<br>Alternative livelihoods: 0.312                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Monitoring equipment</b>                                            | The $effectiveness(a,d)$ factor represents the maximal effectiveness during the crediting period.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>QA/QC procedures to be applied</b>                                  | Within the annual social evaluations, this effectiveness will be evaluated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purpose of the data</b>                                             | Calculation of baseline emissions, Calculation of project emissions; Determination of baseline scenario.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Calculation method</b>                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Comments</b>                                                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| <b>Data / Parameter</b> | $\Delta A_{rice}(tt)$                                                         |
| <b>Data unit</b>        | ha                                                                            |
| <b>Description</b>      | Annual increase in harvested area of rice due to leakage prevention measures. |
| <b>Source of data</b>   | -                                                                             |

|                                                                        |                                                                                              |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                            |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                            |
| <b>Value monitored</b>                                                 | -                                                                                            |
| <b>Monitoring equipment</b>                                            | -                                                                                            |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                            |
| <b>Purpose of the data</b>                                             | -                                                                                            |
| <b>Calculation method</b>                                              | -                                                                                            |
| <b>Comments</b>                                                        | Not applicable. No rice cultivation activity is implemented as a measure to prevent leakage. |

|                                                                        |                                            |
|------------------------------------------------------------------------|--------------------------------------------|
| <b>Data / Parameter</b>                                                | $t_{flooded,max}$                          |
| <b>Data unit</b>                                                       | Days yr <sup>-1</sup>                      |
| <b>Description</b>                                                     | Maximal period of time a field is flooded. |
| <b>Source of data</b>                                                  | -                                          |
| <b>Description of measurement methods and procedures to be applied</b> | -                                          |
| <b>Frequency of monitoring/recording</b>                               | -                                          |
| <b>Value monitored</b>                                                 | -                                          |
| <b>Monitoring equipment</b>                                            | -                                          |

|                                       |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| <b>QA/QC procedures to be applied</b> | -                                                                                            |
| <b>Purpose of the data</b>            | -                                                                                            |
| <b>Calculation method</b>             | -                                                                                            |
| <b>Comments</b>                       | Not applicable. No rice cultivation activity is implemented as a measure to prevent leakage. |

|                                                                        |                                                                             |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $GR_{baseline}$                                                             |
| <b>Data unit</b>                                                       | -                                                                           |
| <b>Description</b>                                                     | Number of grazing animals of type $g$ within the project boundary baseline. |
| <b>Source of data</b>                                                  | -                                                                           |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                           |
| <b>Frequency of monitoring/recording</b>                               | -                                                                           |
| <b>Value monitored</b>                                                 | -                                                                           |
| <b>Monitoring equipment</b>                                            | -                                                                           |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                           |
| <b>Purpose of the data</b>                                             | -                                                                           |
| <b>Calculation method</b>                                              | -                                                                           |
| <b>Comments</b>                                                        | Not applicable.                                                             |

|                         |                |
|-------------------------|----------------|
| <b>Data / Parameter</b> | $GR_{allowed}$ |
|-------------------------|----------------|

|                                                                        |                                                                                                                |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Data unit</b>                                                       | -                                                                                                              |
| <b>Description</b>                                                     | Number of grazing animals of type $g$ allowed for grazing within the project boundary in the project scenario. |
| <b>Source of data</b>                                                  | -                                                                                                              |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                              |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                              |
| <b>Value monitored</b>                                                 | -                                                                                                              |
| <b>Monitoring equipment</b>                                            | -                                                                                                              |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                              |
| <b>Purpose of the data</b>                                             | -                                                                                                              |
| <b>Calculation method</b>                                              | -                                                                                                              |
| <b>Comments</b>                                                        | Not applicable.                                                                                                |

|                                                                        |                                                                                                                                      |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $Fuelwood(t)$ ;<br>$Fuel(t)$                                                                                                         |
| <b>Data unit</b>                                                       | $m^3 \text{ yr}^{-1} \text{ HH}^{-1}$                                                                                                |
| <b>Description</b>                                                     | Average annual volume of biomass fuel consumed by households in the absence of the project activity in year $t$ for cooking purpose. |
| <b>Source of data</b>                                                  | -                                                                                                                                    |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                    |

|                                   |                 |
|-----------------------------------|-----------------|
| Frequency of monitoring/recording | -               |
| Value monitored                   | -               |
| Monitoring equipment              | -               |
| QA/QC procedures to be applied    | -               |
| Purpose of the data               | -               |
| Calculation method                | -               |
| Comments                          | Not applicable. |

|                                                                 |                                                                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Data / Parameter                                                | $HH_{non-CFE}(t)$                                                                                                              |
| Data unit                                                       | -                                                                                                                              |
| Description                                                     | Total number of household in the project area that collect biomass fuel from the project area and do not use CFE in year $t$ . |
| Source of data                                                  | Social assessments results or wood energy statistics applicable to the project.                                                |
| Description of measurement methods and procedures to be applied | Ex-post, this value must be obtained from socio-economic survey.                                                               |
| Frequency of monitoring/recording                               | At least once before verification.                                                                                             |
| Value monitored                                                 | -                                                                                                                              |
| Monitoring equipment                                            | -                                                                                                                              |
| QA/QC procedures to be applied                                  | -                                                                                                                              |
| Purpose of the data                                             | -                                                                                                                              |

|                           |                 |
|---------------------------|-----------------|
| <b>Calculation method</b> | -               |
| <b>Comments</b>           | Not applicable. |

|                                                                        |                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $\eta_{old}$                                                                                                                                                                                                                                              |
| <b>Data unit</b>                                                       | -                                                                                                                                                                                                                                                         |
| <b>Description</b>                                                     | Default value of 0.10 for three stone stove or conventional stove that lacks improved combustion air supply mechanism and flue gas ventilation systems i.e., without a grate as well as a chimney; for rest of the systems 0.2 default value may be used. |
| <b>Source of data</b>                                                  | -                                                                                                                                                                                                                                                         |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                                                                                                                                         |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                                                                                                                                                                         |
| <b>Value monitored</b>                                                 | -                                                                                                                                                                                                                                                         |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                                                                                                                                         |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                                                                                                                                         |
| <b>Purpose of the data</b>                                             | -                                                                                                                                                                                                                                                         |
| <b>Calculation method</b>                                              | -                                                                                                                                                                                                                                                         |
| <b>Comments</b>                                                        | Not applicable.                                                                                                                                                                                                                                           |

|                         |              |
|-------------------------|--------------|
| <b>Data / Parameter</b> | $\eta_{new}$ |
| <b>Data unit</b>        | -            |

|                                                                        |                                                      |
|------------------------------------------------------------------------|------------------------------------------------------|
| <b>Description</b>                                                     | Efficiency of the baseline cookstoves or appliances. |
| <b>Source of data</b>                                                  | -                                                    |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                    |
| <b>Frequency of monitoring/recording</b>                               | -                                                    |
| <b>Value monitored</b>                                                 | -                                                    |
| <b>Monitoring equipment</b>                                            | -                                                    |
| <b>QA/QC procedures to be applied</b>                                  | -                                                    |
| <b>Purpose of the data</b>                                             | -                                                    |
| <b>Calculation method</b>                                              | -                                                    |
| <b>Comments</b>                                                        | Not applicable.                                      |

|                                                                        |                                                                                   |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $U_{CFE}(t)$                                                                      |
| <b>Data unit</b>                                                       | -                                                                                 |
| <b>Description</b>                                                     | Fraction of cumulative usage rate for technologies in project scenario in year t. |
| <b>Source of data</b>                                                  | -                                                                                 |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                 |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                 |
| <b>Value monitored</b>                                                 | -                                                                                 |

|                                |                 |
|--------------------------------|-----------------|
| Monitoring equipment           | -               |
| QA/QC procedures to be applied | -               |
| Purpose of the data            | -               |
| Calculation method             | -               |
| Comments                       | Not applicable. |

|                                                                 |                                                                                             |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Data / Parameter                                                | $DF_{LeakageCFE}(t)$                                                                        |
| Data unit                                                       | -                                                                                           |
| Description                                                     | Leakage discount factor applicable to GHG emissions reduction benefits from CFE activities. |
| Source of data                                                  | -                                                                                           |
| Description of measurement methods and procedures to be applied | -                                                                                           |
| Frequency of monitoring/recording                               | -                                                                                           |
| Value monitored                                                 | -                                                                                           |
| Monitoring equipment                                            | -                                                                                           |
| QA/QC procedures to be applied                                  | -                                                                                           |
| Purpose of the data                                             | -                                                                                           |
| Calculation method                                              | -                                                                                           |
| Comments                                                        | Not applicable.                                                                             |

|                  |                                        |
|------------------|----------------------------------------|
| Data / Parameter | $EF_{non-CSS2,ccuel}, EF_{CSS2,ccuel}$ |
|------------------|----------------------------------------|

|                                                                        |                                                                                                                                                                                        |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data unit</b>                                                       | t CO <sub>2</sub> TJ <sup>-1</sup>                                                                                                                                                     |
| <b>Description</b>                                                     | Respectively, non--CO <sub>2</sub> emission factor of the fuel that is reduced and CO <sub>2</sub> emission factor for the substitution of non-renewable biomass by similar consumers. |
| <b>Source of data</b>                                                  | -                                                                                                                                                                                      |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                                                                      |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                                                                                                      |
| <b>Value monitored</b>                                                 | -                                                                                                                                                                                      |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                                                                      |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                                                                      |
| <b>Purpose of the data</b>                                             | -                                                                                                                                                                                      |
| <b>Calculation method</b>                                              | -                                                                                                                                                                                      |
| <b>Comments</b>                                                        | Not applicable.                                                                                                                                                                        |

|                                                                        |                                     |
|------------------------------------------------------------------------|-------------------------------------|
| <b>Data / Parameter</b>                                                | $EF_{forest}$                       |
| <b>Data unit</b>                                                       | tCO <sub>2</sub> e                  |
| <b>Description</b>                                                     | Emission factor related to leakage. |
| <b>Source of data</b>                                                  | -                                   |
| <b>Description of measurement methods and procedures to be applied</b> | -                                   |

|                                   |                 |
|-----------------------------------|-----------------|
| Frequency of monitoring/recording | -               |
| Value monitored                   | -               |
| Monitoring equipment              | -               |
| QA/QC procedures to be applied    | -               |
| Purpose of the data               | -               |
| Calculation method                | -               |
| Comments                          | Not applicable. |

#### Data on Organic Matter and Carbon Densities

|                                                                 |                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data / Parameter                                                | $OM_o(i)$                                                                                                                                                                                                                                                                              |
| Data unit                                                       | Mg DM ha <sup>-1</sup>                                                                                                                                                                                                                                                                 |
| Description                                                     | Plant-derived organic matter of LULC class or forest stratum $i$ in pool $o$ .                                                                                                                                                                                                         |
| Source of data                                                  | Field measurements using sampling plots in forest strata or LULC classes.                                                                                                                                                                                                              |
| Description of measurement methods and procedures to be applied | The average biomass stock density in applicable organic matter pools: aboveground tree – $OM_{AGT}(i)$ , aboveground non-tree – $OM_{AGNT}(i)$ , lying dead wood – $OM_{LDW}(i)$ , standing dead wood $OM_{SDW}(i)$ , belowground $OM_{BG}(i)$ , and soil organic matter $OM_{SOM}(i)$ |
| Frequency of monitoring/recording                               | At least once before every baseline update                                                                                                                                                                                                                                             |
| Value monitored                                                 | Follow uncertainty deduction procedures described in methodology.                                                                                                                                                                                                                      |
| Monitoring equipment                                            | Re-measure plots by independent teams.                                                                                                                                                                                                                                                 |
| QA/QC procedures to be applied                                  | Summed across multiple pools and divided into $OM_{plant}(i)$ and $OM_{soil}(i)$                                                                                                                                                                                                       |

|                            |                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Purpose of the data</b> | Calculation of baseline emissions, Calculation of project emissions; Determination of baseline scenario |
| <b>Calculation method</b>  | -                                                                                                       |
| <b>Comments</b>            | -                                                                                                       |

| Data / Parameter                                                | Proportion <sub>DF</sub> (d) and Proportion <sub>DG</sub> (d)                                                                                                                                   |                              |  |        |                              |                              |                                          |      |    |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|--------|------------------------------|------------------------------|------------------------------------------|------|----|
| Data unit                                                       | -                                                                                                                                                                                               |                              |  |        |                              |                              |                                          |      |    |
| Description                                                     | Proportion of the gradual carbon loss that leads to deforestation or forest degradation, respectively, due to driver <i>d</i>                                                                   |                              |  |        |                              |                              |                                          |      |    |
| Source of data                                                  | Estimate using the procedure detailed in Table 9.                                                                                                                                               |                              |  |        |                              |                              |                                          |      |    |
| Description of measurement methods and procedures to be applied | -                                                                                                                                                                                               |                              |  |        |                              |                              |                                          |      |    |
| Frequency of monitoring/recording                               | At least once before every baseline update.                                                                                                                                                     |                              |  |        |                              |                              |                                          |      |    |
| Value monitored                                                 | <table><tr><th>Driver</th><th>proportion<sub>DF</sub>(i)</th><th>proportion<sub>DG</sub>(i)</th></tr><tr><td>1. Conversion of forest land to cropland</td><td>100%</td><td>0%</td></tr></table> |                              |  | Driver | proportion <sub>DF</sub> (i) | proportion <sub>DG</sub> (i) | 1. Conversion of forest land to cropland | 100% | 0% |
| Driver                                                          | proportion <sub>DF</sub> (i)                                                                                                                                                                    | proportion <sub>DG</sub> (i) |  |        |                              |                              |                                          |      |    |
| 1. Conversion of forest land to cropland                        | 100%                                                                                                                                                                                            | 0%                           |  |        |                              |                              |                                          |      |    |
| Monitoring equipment                                            | -                                                                                                                                                                                               |                              |  |        |                              |                              |                                          |      |    |
| QA/QC procedures to be applied                                  | -                                                                                                                                                                                               |                              |  |        |                              |                              |                                          |      |    |
| Purpose of the data                                             | Calculation of baseline emissions, Calculation of project emissions; Determination of baseline scenario                                                                                         |                              |  |        |                              |                              |                                          |      |    |
| Calculation method                                              | -                                                                                                                                                                                               |                              |  |        |                              |                              |                                          |      |    |
| Comments                                                        | -                                                                                                                                                                                               |                              |  |        |                              |                              |                                          |      |    |

|                         |           |
|-------------------------|-----------|
| <b>Data / Parameter</b> | $C(t, i)$ |
|-------------------------|-----------|

|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------|--------------|----------------------------|---------------------------------------|--|--|--|-----------------------------------------------|-----|--|-----------------------------|
| Data unit                                                                                                      | Mg C ha <sup>-1</sup> yr <sup>-1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Description                                                                                                    | Carbon stock density at time in stratum (AGL + BG)                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Source of data                                                                                                 | National Forest and Wildlife Inventory (SERFOR, 2019).                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Description of measurement methods and procedures to be applied                                                | <div>For the forest class:</div> <table><tr><td><math>\rho * \text{Exp}(-1.499 + 2.148 * \ln(\text{dbh}) + 0.207 * \ln(\text{dbh})^2 - 0.0281 * \ln(\text{dbh})^3)</math></td><td>Selva Baja</td><td>Moist forest</td><td>Chave <i>et al.</i>, 2005</td></tr><tr><td colspan="4">Below-ground biomass in trees (BGB.t)</td></tr><tr><td><math>\text{BGB.t} = 0.489 * \text{AGB.t}^{0.890}</math></td><td>All</td><td></td><td>Mokany <i>et al.</i>, 2006</td></tr></table> | $\rho * \text{Exp}(-1.499 + 2.148 * \ln(\text{dbh}) + 0.207 * \ln(\text{dbh})^2 - 0.0281 * \ln(\text{dbh})^3)$ | Selva Baja                  | Moist forest | Chave <i>et al.</i> , 2005 | Below-ground biomass in trees (BGB.t) |  |  |  | $\text{BGB.t} = 0.489 * \text{AGB.t}^{0.890}$ | All |  | Mokany <i>et al.</i> , 2006 |
| $\rho * \text{Exp}(-1.499 + 2.148 * \ln(\text{dbh}) + 0.207 * \ln(\text{dbh})^2 - 0.0281 * \ln(\text{dbh})^3)$ | Selva Baja                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Moist forest                                                                                                   | Chave <i>et al.</i> , 2005  |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Below-ground biomass in trees (BGB.t)                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| $\text{BGB.t} = 0.489 * \text{AGB.t}^{0.890}$                                                                  | All                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                | Mokany <i>et al.</i> , 2006 |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Frequency of monitoring/recording                                                                              | At least once before verification                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Value monitored                                                                                                | Forest: 372.68 Mg dm/ha * 0.5<br>Pasture: 66.47 Mg dm/ha * 0.5                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Monitoring equipment                                                                                           | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| QA/QC procedures to be applied                                                                                 | Use of the most updated reported values in literature.                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Purpose of the data                                                                                            | Calculation of baseline emissions, Calculation of project emissions; Determination of baseline scenario                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Calculation method                                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |
| Comments                                                                                                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |                             |              |                            |                                       |  |  |  |                                               |     |  |                             |

|                                                                        |                                                                                           |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $f_{allometric}(y)$                                                                       |
| <b>Data unit</b>                                                       | Equation                                                                                  |
| <b>Description</b>                                                     | Allometric relationship to convert a tree metric such as DBH or tree height into biomass. |
| <b>Source of data</b>                                                  | National Forest and Wildlife Inventory (SERFOR, 2019).                                    |
| <b>Description of measurement methods and procedures to be applied</b> |                                                                                           |

|                                          |                                                                                                                                                                                  |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frequency of monitoring/recording</b> | At least once before every baseline update.                                                                                                                                      |
| <b>Value monitored</b>                   | Allometric equations were used to calculate aboveground biomass by ecozone:<br>$AGB.t = \rho * \text{Exp}(-1.499 + 2.148 * \ln(dap) + 0.207 * \ln(dap)^2 - 0.0281 * \ln(dap)^3)$ |
| <b>Monitoring equipment</b>              | -                                                                                                                                                                                |
| <b>QA/QC procedures to be applied</b>    | Use of the official national information, for the respective forest stratum.                                                                                                     |
| <b>Purpose of the data</b>               | Calculation of baseline emissions, Calculation of project emissions; Determination of baseline scenario.                                                                         |
| <b>Calculation method</b>                | -                                                                                                                                                                                |
| <b>Comments</b>                          |                                                                                                                                                                                  |

|                                                                        |                                                                                                         |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $f_{belowground}(y)$                                                                                    |
| <b>Data unit</b>                                                       | Equation                                                                                                |
| <b>Description</b>                                                     | Relationship between aboveground and belowground biomass, such as a root-to-shoot ratio.                |
| <b>Source of data</b>                                                  | National Forest and Wildlife Inventory (SERFOR, 2019).                                                  |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                       |
| <b>Frequency of monitoring/recording</b>                               | At least once before every baseline update.                                                             |
| <b>Value monitored</b>                                                 | $BGB.t = 0.489 * AGB.t^{0.890}$                                                                         |
| <b>Monitoring equipment</b>                                            | -                                                                                                       |
| <b>QA/QC procedures to be applied</b>                                  | Use of the official national information, for the respective forest stratum.                            |
| <b>Purpose of the data</b>                                             | Calculation of baseline emissions, Calculation of project emissions; Determination of baseline scenario |

|                           |   |
|---------------------------|---|
| <b>Calculation method</b> | - |
| <b>Comments</b>           | - |

|                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $C_{\text{harvest}}(t,i)$                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Data unit</b>                                                       | Mg C ha <sup>-1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>                                                     | Biomass carbon stock density at time $t$ in stratum $i$ in harvested areas.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source of data</b>                                                  | Field inventory                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description of measurement methods and procedures to be applied</b> | Generic procedure is described in Section 8.1.4.4. Estimate must be made from plots located areas where harvesting takes place.                                                                                                                                                                                                                                                                                                                               |
| <b>Frequency of monitoring/recording</b>                               | At least once before verification                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Value monitored</b>                                                 | See Excel                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Monitoring equipment</b>                                            | Carbon stocks in harvested strata must come from sampling. It may be necessary to include additional plots in harvested strata for a precise estimation of carbon stocks. The exact measurement of aboveground and below tree carbon must follow international standards and follow IPCC GPG LULUCF 2003. These measurements are explained in detail in CDM approved methodology AR-AM0002 Restoration of degraded lands through afforestation/reforestation. |
| <b>QA/QC procedures to be applied</b>                                  | Every year when updating, the spreadsheets will be completely revised.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purpose of the data</b>                                             | Calculation of baseline emissions, Calculation of project emissions.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Calculation method</b>                                              | Carbon Stock – (carbon content in timber harvested / harvested area)                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Comments</b>                                                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                                                                        |                                                                                                                                   |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $CE_{inventory, harvest}(t, i)$                                                                                                   |
| <b>Data unit</b>                                                       | -                                                                                                                                 |
| <b>Description</b>                                                     | Combined error in estimate of average biomass stock density in harvest areas in stratum i at time t.                              |
| <b>Source of data</b>                                                  | Field inventory                                                                                                                   |
| <b>Description of measurement methods and procedures to be applied</b> | Generic procedure is described in Section 8.1.4.4. Estimate must be made from plot located in areas where harvesting takes place. |
| <b>Frequency of monitoring/recording</b>                               | At least once before verification                                                                                                 |
| <b>Value monitored</b>                                                 | 0.011                                                                                                                             |
| <b>Monitoring equipment</b>                                            | Uncertainty estimate in carbon stocks in harvested strata must come from sampling of plots in harvested areas.                    |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                 |
| <b>Purpose of the data</b>                                             | Calculation of baseline emissions, Calculation of project emissions; Determination of baseline scenario.                          |
| <b>Calculation method</b>                                              | 100% Census in harvest plot                                                                                                       |
| <b>Comments</b>                                                        | -                                                                                                                                 |

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b> | $CE_{inventory, ANR}(t, i)$                                                                     |
| <b>Data unit</b>        | -                                                                                               |
| <b>Description</b>      | Combined error in estimate of average biomass stock density in ANR areas in stratum I at time t |
| <b>Source of data</b>   | -                                                                                               |

|                                                                        |                 |
|------------------------------------------------------------------------|-----------------|
| <b>Description of measurement methods and procedures to be applied</b> | -               |
| <b>Frequency of monitoring/recording</b>                               | -               |
| <b>Value monitored</b>                                                 | -               |
| <b>Monitoring equipment</b>                                            | -               |
| <b>QA/QC procedures to be applied</b>                                  | -               |
| <b>Purpose of the data</b>                                             | -               |
| <b>Calculation method</b>                                              | -               |
| <b>Comments</b>                                                        | Not applicable. |

|                                                                        |                                                                                                                                                |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | <i>U<sub>classification</sub></i>                                                                                                              |
| <b>Data unit</b>                                                       | -                                                                                                                                              |
| <b>Description</b>                                                     | Discounting factor for NERs from avoided deforestation, based on the accuracy of classification, i.e. dividing land into broad land use types. |
| <b>Source of data</b>                                                  | "Methodological Protocol for the Detection of Forest Loss" (MINAM)                                                                             |
| <b>Description of measurement methods and procedures to be applied</b> | Section 8.1.2.7 of VM0006.                                                                                                                     |
| <b>Frequency of monitoring/recording</b>                               | At least once before verification                                                                                                              |
| <b>Value monitored</b>                                                 | 1.00                                                                                                                                           |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                              |

|                                       |                                                                     |
|---------------------------------------|---------------------------------------------------------------------|
| <b>QA/QC procedures to be applied</b> | -                                                                   |
| <b>Purpose of the data</b>            | Calculation of baseline emissions, Calculation of project emissions |
| <b>Calculation method</b>             | -                                                                   |
| <b>Comments</b>                       | -                                                                   |

|                                                                        |                                                                                                                                                                             |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data / Parameter</b>                                                | $u_{\text{stratification}}$                                                                                                                                                 |
| <b>Data unit</b>                                                       | -                                                                                                                                                                           |
| <b>Description</b>                                                     | Discounting factor for NERs from avoided degradation, based on the accuracy of stratification, i.e. dividing forest into individual forest biomass classes. Section 8.1.2.7 |
| <b>Source of data</b>                                                  | -                                                                                                                                                                           |
| <b>Description of measurement methods and procedures to be applied</b> | -                                                                                                                                                                           |
| <b>Frequency of monitoring/recording</b>                               | -                                                                                                                                                                           |
| <b>Value monitored</b>                                                 | -                                                                                                                                                                           |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                                                           |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                                                           |
| <b>Purpose of the data</b>                                             | -                                                                                                                                                                           |
| <b>Calculation method</b>                                              | -                                                                                                                                                                           |
| <b>Comments</b>                                                        | Not applicable. There is only one stratum in the project.                                                                                                                   |

|                         |                             |
|-------------------------|-----------------------------|
| <b>Data / Parameter</b> | $u_{\text{transition}} (i)$ |
|-------------------------|-----------------------------|

|                                                                        |                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data unit</b>                                                       | [-]                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>                                                     | Discounting factor for the emission factor for the transition from LULC class or forest stratum 1 to class 2 according to the uncertainty of the biomass inventory.                                                                                                                                                   |
| <b>Source of data</b>                                                  | Eder Ramos-Hernández & José Luis Martínez-Sánchez in “Almacenes de biomasa y carbono aéreo y radicular en pastizales de Urochloa decumbens y Paspalum notatum (Poaceae) en el sureste de México. Excel Monitoring report                                                                                              |
| <b>Description of measurement methods and procedures to be applied</b> | Section 8.1.2.4.3                                                                                                                                                                                                                                                                                                     |
| <b>Frequency of monitoring/recording</b>                               | At least once before verification                                                                                                                                                                                                                                                                                     |
| <b>Value monitored</b>                                                 | 1                                                                                                                                                                                                                                                                                                                     |
| <b>Monitoring equipment</b>                                            | -                                                                                                                                                                                                                                                                                                                     |
| <b>QA/QC procedures to be applied</b>                                  | -                                                                                                                                                                                                                                                                                                                     |
| <b>Purpose of the data</b>                                             | Calculation of baseline emissions, Calculation of project emissions;                                                                                                                                                                                                                                                  |
| <b>Calculation method</b>                                              | $u_{transition}(CS1 \rightarrow CS2) = \begin{cases} 1 & \text{if } CE_{transition}(CS1 \rightarrow CS2) \leq 0.15, \\ 1 - CE_{transition}(CS1 \rightarrow CS2) & \text{if } 0.15 < CE_{transition}(CS1 \rightarrow CS2) < 1, \\ 0 & \text{if } CE_{transition}(CS1 \rightarrow CS2) \geq 1 \end{cases} \quad [EQ34]$ |
| <b>Comments</b>                                                        | -                                                                                                                                                                                                                                                                                                                     |

### 3.1.3 Monitoring Plan (VCS, 3.16, 3.20)

The main objective of the Monitoring Plan is the collection of data that allow the verification of deforestation and degradation within the project area and its leakage belt over time, periodically updating the emission estimates as well as the generation of information. sufficient and timely to measure the results of the implementation of the activities defined to achieve the objectives of the Tahuamanu Amazon REDD Project and from there make the necessary adjustments in the strategies or activities as part of the adaptive management being implemented.

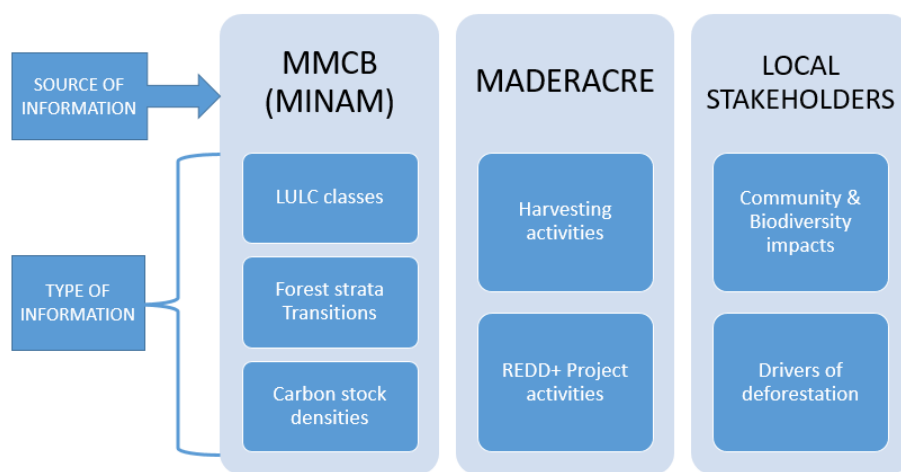


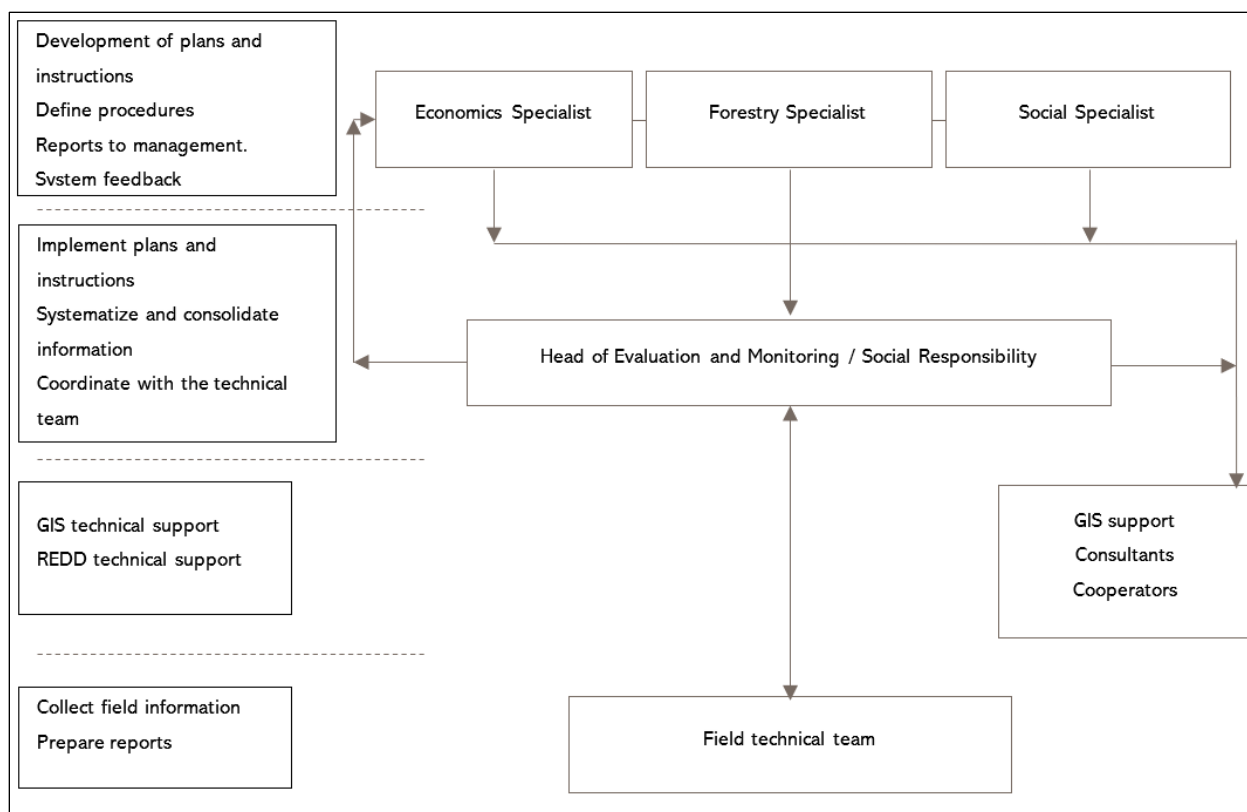
Figure 3.1 Sources of information by type

### ORGANIZATIONAL STRUCTURE

The Project is implemented by MADERACRE SAC, a company with almost two decades of experience in the sustainable management of natural tropical forests in order to obtain ecosystem benefits from the sustainable management of the landscape. MADERACRE SAC has a trained and experienced technical team for the implementation of the project, capacities that also extend to monitoring tasks.

The development of the Monitoring Plan is in charge of a multidisciplinary team, led by an economist, a forestry specialist, and a social specialist, allowing a comprehensive approach to the different components of the plan. Its implementation is in charge of the head of the Monitoring and Evaluation Area (M&E), who must articulate it with the technical field staff, the latter is the one who performs the measurements on the ground and corroborates the information in the office. It has specialized consultants with extensive experience who provide support in the calculations of emissions, as well as support in GIS for the analysis and interpretation of satellite images necessary for the calculation of deforestation.

The information flow of the monitoring system and the organizational structure of the project monitoring system are detailed below.



**Figure 3.2 Organizational Structure**

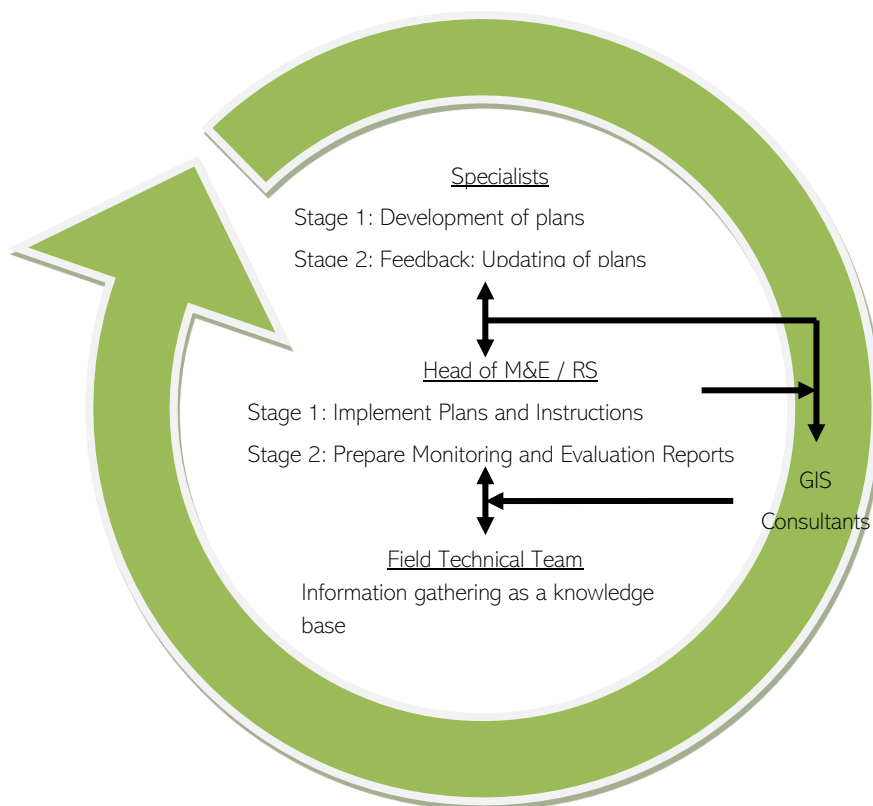
### **INFORMATION MANAGEMENT: COLLECTION, TREATMENT and REPORTS**

The project is based on the premise of "Adaptive Management", in this sense all intervention in the forest is based on previous information collected in the field. Based on this knowledge, the Management Plans, Operational Plans and other management instructions necessary for the implementation of the project, the interventions in the forest and the treatment of the social component are defined.

The permanent implementation of the Monitoring Plan allows to identify the trends of the different indicators, which are oriented to measure the fulfillment or impact of the project activities. The knowledge that is generated allows to validate or adapt the system, and if necessary, make changes in the management tools or in the project activities.

The information collected in the field by the technical staff is entered, reviewed and systematized by the Head of Monitoring and Evaluation for the environmental component and by the Social Responsibility Coordinator (SR) for the community component, both at the end of the period (annually) They present the corresponding monitoring reports to the forestry specialist and social specialist for their review and validation. The relevant information is incorporated in the process of reviewing the management tools and in the preparation of the new Operational Plan for the project.

The information flow in the framework of the adaptive management of the project is presented below.



**Figure 3.3 Adaptive Management**

Forms have been developed to collect field data for those variables to be monitored. The data collected is digitized, reviewed and incorporated into a database in Excel-type spreadsheets, also designed according to the information requirements. The calculations are made in said spreadsheets using the corresponding formulas and they are the ones that allow calculating the monitoring plan indicators that are then presented in the monitoring reports for the period.

All field monitoring processes must be documented, all sampling units or established plots must be georeferenced and systematized within the GIS.

The physical files are stored in the project's administrative office located in the town of Iñapari, while the digital files are stored in a file called "TAH REDD PROJECT" located on the MADERACRE SAC server, which is managed by the Specialist. Forest. These files will be kept throughout the useful life of the project and for at least two years after the end of their crediting period.

## ANALYSIS OF DEFORESTATION

For this monitoring component, information management comprises the following steps or processes.

### Step 1: Selecting and analyzing the source of land use change

1.1. For the monitoring period, the following actions will be taken:

- The data collected and analyzed should cover the entire project area and the leakage belt. The data must correspond to the year in which the verification occurs.
- The data collected is the Peruvian national environmental authority's data on forest and non-forest.

Geobosques determines forest, non-forest, hydrography and forest loss, and the latter is used as deforestation for the Project area and for calculations.

Considering that the country is in JNR, only the official data was used. For the classification of categories, only one classification has been determined, that of pastures, in order to be conservative until we have the official data from Geobosques.

1.2. For the 10-year monitoring period, a review of the baseline.

1.3. Peru in 2025 will be under JNR.

In that year, the project will be governed by the nationally determined rules for REDD projects. Therefore, the official data from the environmental authority is used.

### Step 2: Interpretation and analysis

2.1. Monitoring deforestation

- a) Deforested area within the Project Area (PA) by stratum.
- b) Deforested area within the leakage belt (LB) by stratum.

In both cases, it must be specified to which type of Land Use (LU) the deforested areas have been changed. Both must be established or indicated by Geobosques data to calculate the emission deforestation avoid in this monitoring period.

- c) Deforested area in risk area to the project with communities

To date, the change land use is not available from Geobosques. Risk areas have been determined due to their proximity to the project area and high deforestation. This is with the intention of establishing the zones and proximities where protection actions and project work with nearby communities or populations that cause deforestation are required.

Within the PRA, interviews will be conducted to determine agricultural productivity and requirements so that the area already deforested in the leakage and, mainly, the areas determined to be at risk, due to their proximity to the project area, which have already been converted to agriculture, do not continue to expand their agricultural frontier.

d) Carbon stocks in carbon pools:

The carbon stock is maintained in each stratum defined in the baseline. It will be re-evaluated for the baseline review (in 10 years).

e) Volume of wood harvested in the concession, by stratum (only one stratum was determinate) and by year.

f) Deforested area within the Reference Region (for baseline review).

## 2.2. Degradation monitoring in the project area

The Project has a Custody System in the process of implementation (checkpoints, defined boundaries, periodic patrolling, etc.). In this sense, it is expected that there will be no degradation due to wood extraction by illegal logging or the production of firewood or charcoal.

If this occurs within the concessions, this degradation will be discounted in the calculations.

A Participatory Rural Assessment (PRA) will be conducted to determine if degradation occurs. In this sense, the following steps will be followed:

a) Degradation due to illegal logging:

The PRA will take place every 2 years. If its results indicate that there is a potential for degradation, the following actions are taken:

- Determination of a “penetration distance” in the PRA (distance that degradation agents can enter from the closest access points).
- Identification of the most important access points to the risk area.
- From these points, the penetration distances are projected, and a Buffer Area is created with a width equal to the length.
- Transects will be established to assess the buffer zone. The evaluated area should not be less than 1% of the buffer area.
- If no stumps (harvested trees) are found. The evaluation is repeated every 2 years.
- If stumps are found, a systematic assessment is carried out. For this, the plots are systematically distributed, with the area to be evaluated being  $\geq 3\%$  of the buffer area.

- Consider the diameter of the stumps, which will be assumed as their DBH. If they are very large (for example, due to buttresses), then the stump species is identified and standing trees of the same species are located. Subsequently, its DBH and stump diameter are measured, and a DBH / stump diameter ratio is calculated. With this relationship, the DBH of the stump diameter of the cleared individuals found is estimated.
- With the DAP data, the carbon stock of the harvested trees is calculated.
- All stocks will be assumed to be lost to the atmosphere.

b) Degradation by fire:

- Fire observed with Data from Geobosques. If hot spots are located in the project area, the loss and other gases emitted are accounted for.
- Fire in leakage is visualized to take action with nearby populations and determine actions if there is danger to the project area.
- Burned areas should be measured in the field using GPS, in project area.

### 2.3 Monitoring of areas with higher carbon stocks

The increase in carbon stocks is assumed to be zero and therefore does not require monitoring.

## ANALYSIS AND INTERPRETATION OF SATELLITE IMAGES

Analysis of deforestation and source of land use change should be done with Geobosques. It has carried out image processing and determination of deforested areas throughout the country. The calculations have been made with official information in order to be under the guidelines of JNR. The determination of risk areas has been determined in the project to consider the treatment and proposed strategy of actions with the communities. The data on change of use by Geobosques has not yet been determined.

### • QA

Review processes will be carried out in order to ensure the quality of the project information, minimizing the risks of error, thus obtaining reliable data as the basis of a solid monitoring system. It includes the following steps:

#### 1. Training

Training will be provided to staff in general in the different roles that they must play in the framework of the project, activities, and the methodologies to be followed, as well as the care they must take in those critical points of information management in its different stages: collection of field data, fingering, processing.

## 2. On-site verification

It basically consists of the monitoring in the field that the Head of E&M must carry out on the work of the technical team, taking care at all times that the procedures established in the methodological guidelines of the guides and manuals are implemented and that have been disseminated to the staff in the process training.

An error in the implementation of the procedures must be corrected in the field during the execution of the samplings or evaluations.

## 3. Review of data collected before and after digitization

Field data collection: form header review, complete fields, data consistency (values within parameters).

Fingering: once 100% of the information contained in the form has been entered into the database, an indication of "fingering" must be entered in the corresponding form and once the consistency of the fingering has been checked, it must be entered an indicative of "revised".

Processing: is the responsibility of the Head of E&M and the Social Responsibility Coordinator. They should take into consideration the methodological guidelines defined in the monitoring guides or manuals developed by the project.

If any inconsistency of information is identified at the field form level, this information must be verified in the field. If the inconsistency is found in the digitized information, it must be corroborated in the field forms and if the inconsistency persists, it must be corroborated in the field.

## 4. Review of monitoring reports before publication.

The monitoring reports should be reviewed before publication to confirm that the calculations, analysis, and conclusions are correct and if they have been obtained following the corresponding guidelines. This work is in charge of the Forestry Specialist.

If there are non-conformities during the internal or external audit processes, the data should be reviewed, and the non-conformities addressed.

### 3.1.4 Dissemination of Monitoring Plan and Results (VCS, 3.18; CCB, CL4.2)

This period the Monitoring Report summary has been sent to the communities for their knowledge and posted on Maderacre's website.

## 3.2 Quantification of GHG Emission Reductions and Removals

### 3.2.1 Baseline Emissions (VCS, 3.15)

The emissions of the project's reference activities are found in the following table. These baseline emissions are derived from section 3.2 of the PD and the methodological deviations described in section 2.2.4 of this monitoring report.

**Table 3.1. Reference emissions in the project area**

| Year | L (1) Forest area converted from forest stratum "i" to pasture at the beginning of the crediting period [ha/year] | L (1): Annual carbon loss by conversion of forest lands in pastures [Mg.C/year] | L (1): Annual CO <sub>2</sub> loss by conversion of forest lands in pastures [Mg CO <sub>2</sub> /year] |
|------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 2017 | 129.51                                                                                                            | 19,828.31                                                                       | -69,221.28                                                                                              |
| 2018 | 491.22                                                                                                            | 75,207.03                                                                       | -262,550.20                                                                                             |
| 2019 | 621.27                                                                                                            | 95,118.02                                                                       | -332,060.10                                                                                             |
| 2020 | 909.45                                                                                                            | 139,239.11                                                                      | -486,088.26                                                                                             |
| 2021 | 983.61                                                                                                            | 150,593.20                                                                      | -525,725.74                                                                                             |
| 2022 | 1,129.95                                                                                                          | 172,998.23                                                                      | -603,942.42                                                                                             |
| 2023 | 1,238.67                                                                                                          | 189,643.54                                                                      | -662,051.73                                                                                             |
| 2024 | 1,470.96                                                                                                          | 225,207.73                                                                      | -786,207.48                                                                                             |
| 2025 | 1,644.12                                                                                                          | 251,718.96                                                                      | -878,759.07                                                                                             |
| 2026 | 1,907.64                                                                                                          | 292,064.55                                                                      | -1,019,606.81                                                                                           |

According to the second deviation of section 3.1.6 of the PD, conservatively there is only change of use of forest land to pasture. In the Excel of VCUs Tahuamanu, all calculations can be observed.

### 3.2.2 Project Emissions (VCS, 3.15)

Project ex-post emissions for this verification period were calculated using the most recent data on carbon stocks, together with the country's official tool GEOBOSQUES to spatially determine deforestation in this monitoring period.

According to the steps described in section 9.3.2 (Calculation of Ex-post GHG Emissions and Changes in Sinks Under the Project Scenario inside the Project Area) of VM0006 v.2.2 Methodology:

**a. Acquisition of remote sensing images between the last verification and the current date:**

GEOBOSQUES produces annualized data and is the main input dataset used in the quantification of deforestation in this project, as described in the PD and in all subsequent verification reports. Therefore, the data used included the annualized maps generated for the years 2020 and 2021.

GEOBOSQUES uses images from different Landsat sensors, that include Landsat-5 TM, Landsat-7 ETM+, Landsat-8 OLI, and also Sentinel-1 to improve coverage in cloud-affected areas. The images are calibrated to Top of Atmosphere (TOA) reflectance and reprojected to the UTM Zone 18S projection for the entire Peruvian territory. Decision tree models are applied to mask clouds, shadows, and water bodies, ensuring that the data used for classification is as accurate as possible. Radiometric corrections are applied to compensate for any changes in sensor performance, ensuring consistency in the brightness values across the entire dataset.

Landsat images can exhibit variations in reflectance due to factors such as differences in solar angles, terrain anisotropy, or atmospheric conditions. To correct these differences, a MODIS normalized mosaic is used as a reference for the Landsat data. This step involves creating consistent reflectance metrics by adjusting the reflectance values of each image to match a reference image, thereby minimizing the effect of time-of-year or atmospheric conditions on the data. Once the data has been normalized and cleaned of clouds, shadows, and other disturbances, a set of metrics is generated for each pixel based on its reflectance across different time periods. These metrics (First, MedFirst, Last, Minimum and Maximum, Mean and Percentiles) help summarize the reflectance behavior of each pixel and facilitate the detection of forest loss. In addition to reflectance-based metrics, indices like the Normalized Difference Vegetation Index (NDVI) and other spectral indices are also computed. These indices are particularly useful for identifying changes in vegetation health, and they are integral to detecting forest loss.

**b. Image classification and accuracy assessment:**

GEOBOSQUES final product includes the characterization of the land cover in 5 classes, which includes Forest, Water, Forest loss in the period 2001 -2021, the non-forest area that was defined at the end of year 2000, and unclassified land that could not being effectively classified. This product maintains consistency and applies the same classification model each year (onwards year 2017).

The classification of forest loss in GEOBOSQUES methodology is carried out using a supervised classification algorithm based on decision trees. This algorithm requires the creation of training samples, which are manually selected from the images. During the classification process, several iterations of the algorithm were run to improve the results based on expert judgment. In addition, starting the year 2017, methodology incorporates a more advanced technique called Direct Spectral Unmixing (DSU), based on Linear Spectral Mixture Model (LSMM). This model assumes that the reflectance recorded by the satellite sensor for each pixel is a linear combination of the reflectances of the individual components (or

materials) within that pixel. These components are called endmembers. In this classification methodology, two primary endmembers are used:

1. Forest (primary forest): The spectral signature of intact forest cover.
2. Forest loss (deforested areas): The spectral signature of areas that have experienced deforestation or degradation, typically including bare soil, dead vegetation, or forest residue.

This methodology used percentage thresholds to detect different degrees of forest loss within a pixel. The classification is designed to detect partial forest loss within a pixel, which is crucial in tropical regions where degradation (e.g., selective logging or forest thinning) may not result in complete deforestation but still represents a significant change in forest cover.

The output of this step is a binary map of forest loss, where each pixel is classified as either forest loss or no loss for each year. This map represents the annual forest loss and serves as a foundational layer for the post-classification phase. The post-classification stage involves correcting errors detected in the forest loss areas, such as false positives or undetected areas. The classification is intersected with a forest/non-forest layer from the year 2000, and the results are reviewed by experts who edit the results to add undetected forest loss areas and remove false positives.

According to the VM0006 methodology, the same Uclassification used for ex-ante calculations must be used ex-post until the next baseline update.

**c. Comparison of the changes between consecutive maps since last verification.**

Two LULC matrices indicating the total changes in the extended area (reference region plus leakage and project area) and a new updated benchmark map with the changes per year are presented below

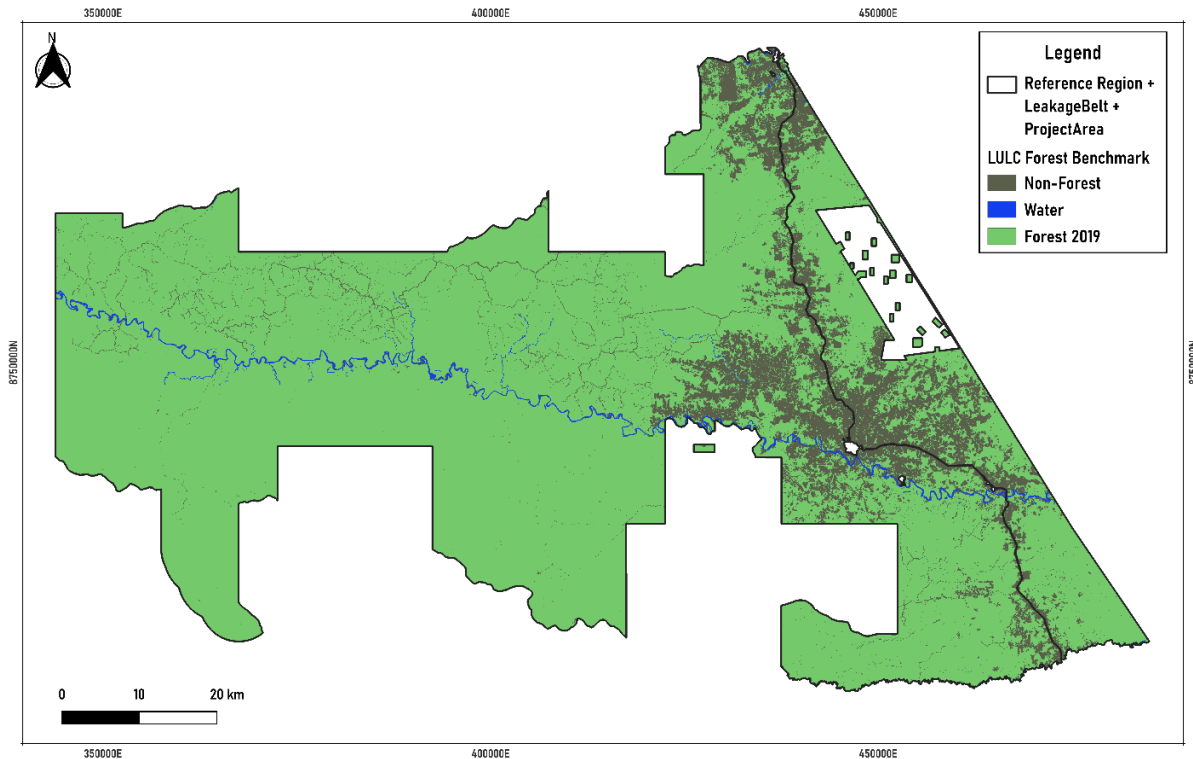


Figure 3.4. Forest benchmark at the end of last monitoring period (2019)

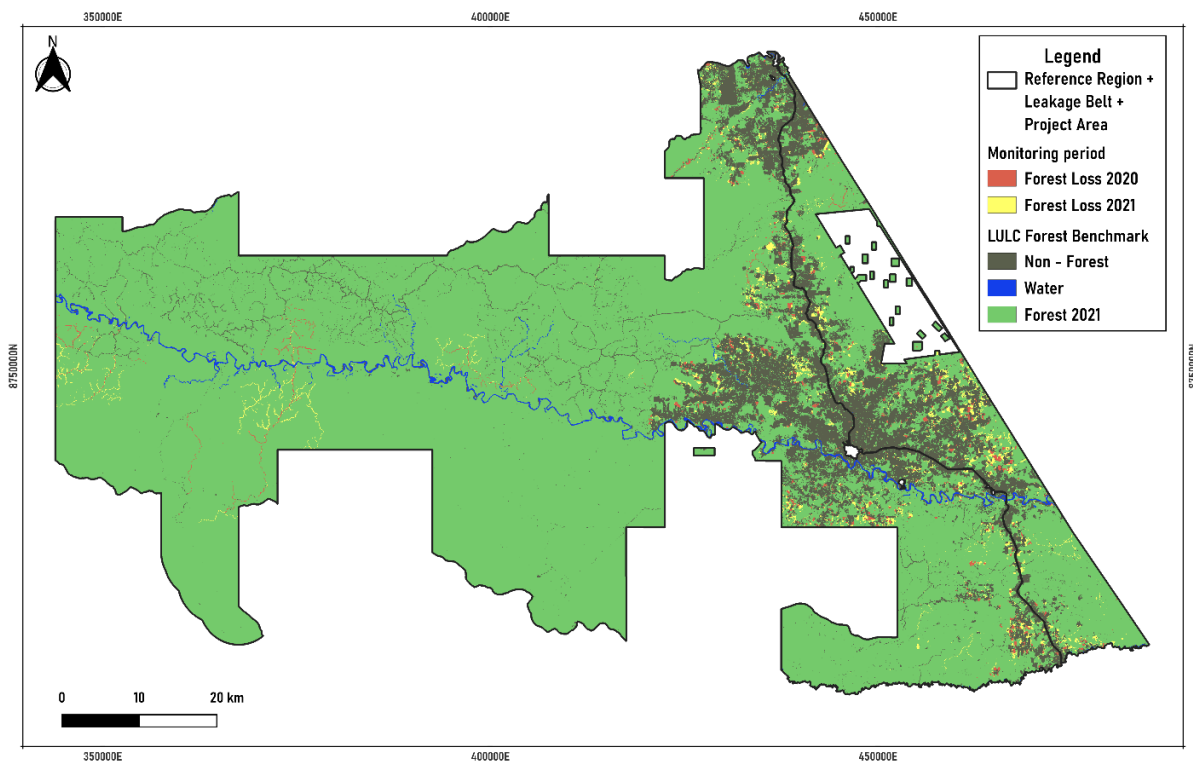


Figure 3.5. Forest benchmark map for LULC transitions in the reference region for the monitoring period (2020 – 2021)

**Table 3.2. LULC matrix for monitoring period (Change from Forest at the start of 2020 to the end of 2020) in the reference region (including leakage and project area)**

| Land Use          | Forest     | Water    | Non-Forest | Unclassified land | Total (ha) |
|-------------------|------------|----------|------------|-------------------|------------|
| Forest            | 445,348.08 | 0        | 4,254.84   | 0                 | 449,602.92 |
| Water             | 0          | 5,252.76 | 0          | 0                 | 5,252.76   |
| Non – Forest      | 0          | 0        | 68,612.40  | 0                 | 68,612.22  |
| Unclassified land | 0          | 0        | 0          | 42.12             | 42.12      |
| Total (ha)        | 445,348.08 | 5,252.76 | 72,867.24  | 42.12             | 523,510.20 |

**Table 3.3. LULC matrix for monitoring period (Change from Forest at the start of 2021 to the end of 2021) in the reference region (including leakage and project area)**

| Land Use          | Forest     | Water    | Non-Forest | Unclassified land | Total (ha) |
|-------------------|------------|----------|------------|-------------------|------------|
| Forest            | 438,125.13 | 0        | 7,222.95   | 0                 | 445,348.08 |
| Water             | 0          | 5,252.76 | 0          | 0                 | 5,252.76   |
| Non – Forest      | 0          | 0        | 72,867.24  | 0                 | 72,867.24  |
| Unclassified land | 0          | 0        | 0          | 42.12             | 42.12      |
| Total (ha)        | 438,125.13 | 5,252.76 | 80,090.19  | 42.12             | 523,510.20 |

**d. Annualize the land transition matrices in the project area**

Below are presented the transitions involving the project area, that excludes ANR activities and harvesting areas.

**Table 3.4. Annual transitions inside the project area that excludes harvesting and ANR activities**

| Year | Land Use transition  | $\Delta area_{projectAreaEAH,projectScenario(t,i)}$ |
|------|----------------------|-----------------------------------------------------|
| 2020 | Forest to Non-Forest | 0.00                                                |

|      |                      |      |
|------|----------------------|------|
| 2021 | Forest to Non-Forest | 0.00 |
|------|----------------------|------|

Monitoring of Changes from avoided deforestation excluding ANR and harvest areas-VCUs Tahuamanu- Hoja 1.

$$\begin{aligned}
 \mathbf{0} = & \sum_{i=1}^{nrFNFtransitions} \sum_{tt=1}^t u_{classification} \cdot u_{transition}(i) \\
 & \cdot \left( \frac{+\Delta area_{projectAreaEAH,projectScenario}(t,i)}{-\Delta area_{projectAreaEAH,baselineScenario}(t,i)} \right) \\
 & \cdot (EF_{AGL}(i) + EF_{AGD}(i, t - tt) + EF_{BG}(i, t - tt) + EF_{SOM}(i, t - tt))
 \end{aligned}
 \quad [EQ107]$$

**Table 3.5. Factors used for changes from forest to non-forest**

| $nrFNFtransitions$                                                            | $u_{classification}(i)$                                                                                                                                        | $u_{transition}(i)$                                                                                                 |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Number of forest/non-forest transitions between land classes or forest strata | Discounting factor for NERs from avoided deforestation, based on the accuracy of classification, i.e. dividing land into broad land use types. Section 8.1.2.7 | Discounting factor for all emission reductions, based on the uncertainty of biomass inventory related to transition |
| 1                                                                             | 1                                                                                                                                                              | 1                                                                                                                   |
| 1                                                                             | 1                                                                                                                                                              | 1                                                                                                                   |

**Table 3.6. Hectares in transition within the project area and baseline scenario**

| $\Delta area_{projectAreaEAH,projectScenario}^{(i)}$ | $\Delta area_{projectAreaEAH,baselineScenario}^{(i)}$ |
|------------------------------------------------------|-------------------------------------------------------|
| 0.00                                                 | 887.05                                                |
| 0.00                                                 | 920.99                                                |

**Table 3.7. Emission factors**

| Land                      | Media AGL | Media BG | Total          |
|---------------------------|-----------|----------|----------------|
| CS1 (forest land)         | 147.705   | 38.64    | 186.34         |
| CS2 (pasture)             | 2.75095   | 30.4865  | 33.24          |
| Emission Factor (tCO2/ha) | -531.50   | -2.99    | <b>-534.49</b> |

**Table 3.8. ΔGHG from avoided deforestation excluding ANR and harvest areas**

| Year | 1          |
|------|------------|
| 2020 | 474,115.47 |
| 2021 | 492,255.29 |

Monitoring of Changes in Long-Term wood products. VCUs Tahuamanu- Sheet 7 (Excel File).

$$7 = \frac{44}{12} \cdot (C_{LWP,project}(t) - C_{LWP,baseline}(t))$$

$$C_{LWP,project}(t) = \sum_{s,wp,ppb,oir}^{ty} C_{HWP,project}(ty, t) \cdot (1 - ww f(ty))(1 - slp(ty))(1 - fo(ty))$$

$$C_{LWP,baseline}(t) = \sum_{s,wp,ppb,oir}^{ty} C_{HWP,baseline}(ty, t) \cdot (1 - ww f(ty))(1 - slp(ty))(1 - fo(ty))$$

[EQ103]

where:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $C_{LWP,project}(t)$      | = Carbon stock of long-lived wood products at time $t$ in the project and baseline scenario, respectively. [Mg C]                                                                                                                                                                                                                                                                              |
| and                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| $C_{LWP,baseline}(t)$     |                                                                                                                                                                                                                                                                                                                                                                                                |
| $C_{HWP,project}(ty, t)$  | = Total biomass carbon harvested within the project boundary by wood class $ty$ during year $t$ in the project and baseline scenario, respectively [Mg C]                                                                                                                                                                                                                                      |
| and                       |                                                                                                                                                                                                                                                                                                                                                                                                |
| $C_{HWP,baseline}(ty, t)$ |                                                                                                                                                                                                                                                                                                                                                                                                |
| $ww f(ty)$                | Fraction of carbon in harvested wood products that is emitted immediately because of mill inefficiency for wood class $ty$ . This can be estimated by multiplying the applicable fraction to the total amount of carbon in different harvested wood product category. The default applicable fraction is 24% and 19% respectively for developing and developed countries (Winjum et al. 1998). |
| $slp(ty)$                 | = Proportion of short lived products. These fractions are 0.2, 0.1, 0.4 and 0.3 respectively for wood class $ty$ , i.e., sawnwood, wood-based panel, paper and paper boards and other industrial round woods as described in Winjum et al. (1998). The methodology assumes that all other classes of wood products are emitted within 5 years.                                                 |
| $fo(ty)$                  | = Fraction of carbon that will be emitted to the atmosphere between 5 and 100 years of harvest for wood class $ty$ . See Table 19. [-]                                                                                                                                                                                                                                                         |
| $t$                       | = 1, 2, 3..... $t$ years elapsed since the start of the project. [yr]                                                                                                                                                                                                                                                                                                                          |
| $ty$                      | = Wood product class – defined here as sawnwood (sw), wood-based panels (wp), other industrial round wood (oir),                                                                                                                                                                                                                                                                               |

**Table 3.9. Fraction of carbon and proportion of short-lived products**

| $ww f(ty)$                                                    | $slp(ty)$                          | $fo(ty)$                                                                                                           | $ty$      |
|---------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------|
| Applicable fraction (24%) total carbon for each product class | Proportion of short-lived products | Fraction of carbon that will be emitted into the atmosphere between 5 and 100 years of harvest for wood class $ty$ | $ww f$    |
| 0.24                                                          | 0.2                                | 0.85                                                                                                               | Sawn wood |

**Table 3.10. Carbon Stock in harvested wood products**

| Year | Species      | $C_{HWP,project}(ty, t)$                                                                                         | $C_{HWP,baseline}(ty, t)$                                                                                    |
|------|--------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|      |              | Total carbon stocks in harvested wood products within the project boundary, at harvest. [MgC]<br>(volumen*0.5*d) | Total carbon stocks in harvested wood products within the limits of the reference scenario, at harvest [MgC] |
| 2020 | ANA CASPI    | 317.43                                                                                                           | 6,695.81                                                                                                     |
|      | AZUCAR HUAYO | 448.84                                                                                                           |                                                                                                              |
|      | CACHIMBO     | 1.82                                                                                                             |                                                                                                              |
|      | CAOBA        | 22.81                                                                                                            |                                                                                                              |
|      | ESTORAQUE    | 635.81                                                                                                           |                                                                                                              |
|      | ISHPINGO     | 277.15                                                                                                           |                                                                                                              |
|      | ITAUBA       | 38.49                                                                                                            |                                                                                                              |
|      | MASHONASTE   | 456.19                                                                                                           |                                                                                                              |
|      | PALO BASTON  | 0.67                                                                                                             |                                                                                                              |
|      | QUINILLA     | 196.82                                                                                                           |                                                                                                              |
|      | REMO CASPI*  | 42.83                                                                                                            |                                                                                                              |
|      | SHIHUAHUACO  | 4,237.02                                                                                                         |                                                                                                              |
|      | TAHUARI      | 19.90                                                                                                            |                                                                                                              |
|      |              | <b>6,695.81</b>                                                                                                  |                                                                                                              |
| 2021 | ANA CASPI    | 351.05                                                                                                           | 7,964.82                                                                                                     |
|      | AZUCAR HUAYO | 406.53                                                                                                           |                                                                                                              |
|      | ESTORAQUE    | 1,567.89                                                                                                         |                                                                                                              |
|      | ISHPINGO     | 248.84                                                                                                           |                                                                                                              |
|      | SHIHUAHUACO  | 5,390.50                                                                                                         |                                                                                                              |
|      |              | <b>7,964.82</b>                                                                                                  |                                                                                                              |

**Table 3.11. Carbon in long-lived wood products by Species**

| Year | 2    | $C_{LWP,project}(t)$                                                                        | $C_{LWP,baseline}(t)$                                                                                                                | Species      |
|------|------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------|
|      |      | Net change in carbon stocks in long-lived wood products during year t [Mg CO <sub>2</sub> ] | carbon in long-lived wood products within the project [MgC]<br>carbon in long-lived wood products under the reference scenario [MgC] |              |
| 2020 | 0.00 | 28.95                                                                                       |                                                                                                                                      | ANA CASPI    |
|      | 0.00 | 40.93                                                                                       |                                                                                                                                      | AZUCAR HUAYO |
|      | 0.00 | 0.17                                                                                        |                                                                                                                                      | CACHIMBO     |
|      | 0.00 | 2.08                                                                                        |                                                                                                                                      | CAOBA        |
|      | 0.00 | 57.99                                                                                       |                                                                                                                                      | ESTORAQUE    |
|      | 0.00 | 25.28                                                                                       |                                                                                                                                      | ISHPINGO     |
|      | 0.00 | 3.51                                                                                        |                                                                                                                                      | ITAUBA       |

|             |      |          |          |              |
|-------------|------|----------|----------|--------------|
|             | 0.00 | 41.60    | 610.66   | MASHONASTE   |
|             | 0.00 | 0.06     |          | PALO BASTON  |
|             | 0.00 | 17.95    |          | QUINILLA     |
|             | 0.00 | 3.91     |          | REMO CASPI*  |
|             | 0.00 | 386.42   |          | SHIHUAHUACO  |
|             | 0.00 | 1.81     |          | TAHUARI      |
|             | 0.00 | 610.66   |          | <b>TOTAL</b> |
| <b>2021</b> | 0.00 | 32.02    | 1,792.31 | ANA CASPI    |
|             | 0.00 | 37.08    |          | AZUCAR HUAYO |
|             | 0.00 | 142.99   |          | ESTORAQUE    |
|             | 0.00 | 22.69    |          | ISHPINGO     |
|             | 0.00 | 491.61   |          | SHIHUAHUACO  |
|             | 0.00 | 1,792.31 |          | <b>TOTAL</b> |

Monitoring from avoided deforestation from areas under harvest - Sheet 10

$$\sum_i^t \Delta C_{\text{areaWithHarvest}}(i) \geq \sum_{i=1}^{nrStrata} \text{area}_{\text{projectAreaWithHarvest,projectScenario}}(t,i) \cdot LTAC_{\text{Harvest}}$$

$\emptyset = 0$

In case the inequality above does not hold, (10) must be:

$$\emptyset = \Delta C_{\text{areaWithHarvest}}(t) \quad [EQ117]$$

Determining Long-Term Average Carbon Stock:

$$LTAC_{\text{harvest}} = \frac{\sum_{t=0}^T \sum_{i=1}^{nrStrata} C_{\text{harvest}}(t,i) \cdot u_{\text{inventory,harvest}}(i)}{T} \quad [EQ79]$$

where:

- $LTAC_{\text{harvest}}$  = Long-term average Carbon stock density contained in harvested areas. [tCO<sub>2e</sub> ha<sup>-1</sup>]
- $nrStrata$  = Number of forest strata. [-]
- $C_{\text{harvest}}(t,i)$  = Biomass carbon stock density at time t in stratum i in harvested areas. [tCO<sub>2</sub> ha<sup>-1</sup>]
- $u_{\text{inventory,harvest}}(i)$  = Discounting factor for the uncertainty in biomass estimation in harvested areas in stratum i in harvest areas. The most recent  $u_{\text{inventory,harvest}}(t,i)$  value must be used for discounting the estimate for future years. [-]
- $T$  = Minimal time period for estimating long term average. [yr].

T: 40 yr

To estimate the  $u_{inventory,harvest}(i)$ , EQ (17 – 22) was developed: “See excel VCUSTahuamanu. Hoja EF”.

$$OM_o(i) = average \left( OM_{o,plot-wise}(i, p) \right) \quad [EQ17]$$

$$stdev(OM_o(i)) = stdev \left( OM_{o,plot-wise}(i, p) \right) \quad [EQ18]$$

$$stderr(OM_o(i)) = \frac{stdev(OM_o(i))}{\sqrt{n_i}} \quad [EQ19]$$

$$HCWI(OM_o(i)) = t_{0.95, n-1} \cdot stderr(OM_o(i)) \quad [EQ20]$$

$$CE_{inventory}(i) = \frac{\sqrt{\sum_o HCWI(OM_o(i))^2}}{\sum_o OM_o(i)} \quad [EQ21]$$

$$u_{inventory}(i) = \begin{cases} 1 & \text{if } CE(i) \leq 0.15, \\ 1 - CE(i) & \text{if } 0.15 < CE_{inventory}(i) < 1, \\ 0 & \text{if } CE(i) \geq 1 \end{cases} \quad [EQ22]$$

**Table 3.12. Discounting factors**

| CE transition | U transition | CE inventory | U inventory          |
|---------------|--------------|--------------|----------------------|
| 0.014         | 1            | 0.011096182  | 1                    |
| CE transition | U transition | CE inventory | U inventory, harvest |
| 0.014         | 1            | 0.011096182  | 1                    |

According to EQ21  $CE_{inventory}(i)$  is equal to 0.014, and according to EQ22,  $u_{inventory,harvest}(i)$  is equal to 1.00.

To find the  $Charvest(t,i)$ , we need to determine the following info:

The procedure to estimate  $Charvest(i)$  and  $u_{inventory,harvest}(i)$ , is as described in Section 8.1.4.4 but the estimates are based on only the plots located in harvest areas.

Average annual carbon density in harvested timber, equal to to 0.57 tCO<sub>2</sub>/ha to year 2020 and 0.26 to year 2021.

According to IPCC (2006), the net growth of aboveground biomass in tropical rainforest in South America for forests  $\geq 20$  years old is 3.1 t/ha/year, respectively. This growth, in tCO<sub>2</sub> is 5.68.

Calculations are more detailed in “Excel VCUsTahuamanu”, sheet “10”.

**Table 3.13. Long-term average carbon stock density contained in harvested areas**

| $LTAC_{harvest}$ : Long term average density in harvest zones<br>[tCO <sub>2</sub> e/ha] | Year | $C_{harvest}(t,i)$ : Carbon density in harvest zone by time and harvest area<br>[tCO <sub>2</sub> e/ha] |
|------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|
| 732.78                                                                                   | 2020 | 687.12                                                                                                  |
|                                                                                          | 2021 | 690.11                                                                                                  |

To calculate emissions or sinks on land on which harvesting activities are implemented:

$$\Delta C_{areaWithHarvest}(t) = \quad [EQ80]$$

$$\sum_{i=1}^{nrStrata} area_{projectAreaWithHarvest,projectScenario}(t,i) \cdot \left( \frac{C_{harvest}(t_2,i) - C_{harvest}(t_1,i)}{t_2 - t_1} \right) \cdot u_{inventory,harvest}(i)$$

$$- \sum_{i=1}^{nrFNFTtransitions} \sum_{tt=1}^t \left( \frac{u_{classification} \cdot u_{transition}(i)}{\cdot \Delta area_{projectAreaWithHarvest,baselineScenario}(t,i)} \cdot (EF_{AGL}(i) + EF_{AGD}(i, t - tt) + EF_{BG}(i, t - tt) + EF_{SOM}(i, t - tt)) \right)$$

$$- \sum_{i=1}^{nrStrataTransitions} \sum_{tt=1}^t \left( \frac{u_{stratification} \cdot u_{transition}(i)}{\cdot \Delta area_{projectAreaWithHarvest,baselineScenario}(t,i)} \cdot (EF_{AGL}(i) + EF_{AGD}(i, t - tt) + EF_{BG}(i, t - tt) + EF_{SOM}(i, t - tt)) \right),$$

**Table 3.14. Long-term average carbon stock density contained in harvested areas**

| Year | $\Delta C_{areaWithHarvest}$ : Density of carbon stocks in harvested areas in stratum ii in year t<br>[tCO <sub>2</sub> /ha] |
|------|------------------------------------------------------------------------------------------------------------------------------|
| 2020 | 24,465.69                                                                                                                    |
| 2021 | 55,460.73                                                                                                                    |

### 3.2.3 Leakage Emissions (VCS, 2.5, 3.2, 3.6, 3.15, 4.3)

Leakage was estimated from the baseline scenario using the results of the spatial modelling, described in the project description deviation, and using the VM0015 v.1.1 indications. The following Table describes the EX-ANTE calculations of a project scenario, under the considerations of VM0006 methodology v.2.2.

**Table 3.15. Deforestation rate in Leakage area in Baseline**

| Year | Carbon emissions from deforestation in leakage area during year t [tCO <sub>2</sub> e/year] | $D_{leakageArea,projectScenario,DF}^{(t)}$ : Deforestation rate in leakage area under the project scenario in time t of crediting period [ha/year] | $D_{leakageArea,baselineScenario,DF}^{(t)}$ : Reference deforestation rate in leakage area at time t of crediting period [ha/year] | $\Delta D_{LK,DF}$ : Induced increasing deforestation rates by leakage during year t of crediting period [ha/year] |
|------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 2020 | -790,228.52                                                                                 | 1,478.48                                                                                                                                           | 1,198.71                                                                                                                           | 279.77                                                                                                             |
| 2021 | -967,647.48                                                                                 | 1,810.43                                                                                                                                           | 1,494.72                                                                                                                           | 315.71                                                                                                             |

Leakage for this period:

For the period 2020-2021, the amount of deforestation was estimated using the GEOBOSQUES data of forest loss for the period mentioned, by overlapping the leakage area with the class that represents the deforested pixels and quantifying its total area in hectares. The monitored data is observed in the following table.

$$e = \sum_{i=1}^{nrFNFtransitions} \sum_{tt=1}^t u_{classification} \cdot u_{transition}(i) \cdot \left( \begin{array}{l} +\Delta area_{leakageArea,projectScenario}(t,i) \\ -\Delta area_{leakageArea,baselineScenario}(t,i) \end{array} \right) \cdot (EF_{AGL}(i) + EF_{AGD}(i, t - tt) + EF_{BG}(i, t - tt) + EF_{SOM}(i, t - tt))$$

**Table 3.16. Deforestation rate in Leakage area in Baseline**

| Year | $\Delta area_{leakageArea,projectScenario}^{(t)}$                                     | $\Delta area_{leakageArea,baselineScenario}^{(t)}$                                     |
|------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|      | Hectares in transition within the leakage area, in the project scenario during year t | Hectares in transition within the leakage area, in the baseline scenario during year t |
| 2020 | 574.01                                                                                | 1,198.71                                                                               |
| 2021 | 760.68                                                                                | 1,494.72                                                                               |

**Table 3.17. Emission Factor**

| Land                                   | Media AGL | Media BG | Total          |
|----------------------------------------|-----------|----------|----------------|
| CS1 (forest land)                      | 147.705   | 38.64    | 186.34         |
| CS2 (pasture)                          | 2.75095   | 30.4865  | 33.24          |
| Emission Factor (tCO <sub>2</sub> /ha) | -531.50   | -2.99    | <b>-534.49</b> |

As the project scenario (monitoring data) represents a lower deforestation scenario than the baseline estimations, the difference between them is positive. Given that Leakage cannot be positive, the avoided emissions in the leakage belt are rounded to zero.

**Table 3.18. Leakage belt**

| Year | 2          | If, is > 0, is = 0 |
|------|------------|--------------------|
| 2020 | 333,893.38 | 0                  |
| 2021 | 392,334.08 | 0                  |

### 3.2.4 GHG Emission Reductions and Carbon Dioxide Removals (VCS, 3.15, 4.1)

Net GHG emission reductions and removals are calculated using equation 105 of the VM006 methodology v.2.2.

**Table 3.19. Sources of emissions**

| [EQ105]: Net Emission Reductions(NERs)                          | =    |
|-----------------------------------------------------------------|------|
| ΔGHG from avoided deforestation excluding ANR and harvest areas | 01 + |
| + ΔGHG from deforestation due to leakage                        | 02 + |
| + ΔGHG from avoided degradation                                 | 03 + |
| + ΔGHG from degradation due to leakage                          | 04 + |
| +ΔGHG from leakage by unconstrained geographic drivers          | 05 + |
| + ΔGHG from assisted natural regeneration                       | 06 + |
| + ΔGHG from changes in long-lived wood products                 | 07 + |
| + ΔGHG from improved cook stoves                                | 08 + |
| + ΔGHG from other and secondary sources                         | 09 + |
| +ΔGHG from avoided deforestation from areas under harvest       | 10   |

ΔGHG from avoided deforestation:

$$\begin{aligned}
 \text{①} = & \sum_{i=1}^{nrFNFTtransitions} \sum_{tt=1}^t u_{classification} \cdot u_{transition}(i) \\
 & \cdot \left( \begin{array}{l} +\Delta area_{projectAreaEAH,projectScenario}(t,i) \\ -\Delta area_{projectAreaEAH,baselineScenario}(t,i) \end{array} \right) \\
 & \cdot (EF_{AGL}(i) + EF_{AGD}(i, t - tt) + EF_{BG}(i, t - tt) + EF_{SOM}(i, t - tt))
 \end{aligned}
 \quad [EQ107]$$

$$U_{classification} = 1$$

$$U_{transition} = 1$$

$\Delta area_{projectAreaEAH,projectScenario}(t,i) = (\text{Project Area} - \text{harvest area}) / \text{Project Area} \cdot \text{deforestation rate in Project area in baseline scenario}$

$\Delta area_{projectAreaEAH,projectScenario}(t,i) = (\text{Project Area} - \text{harvest area}) / \text{Project Area} \cdot \text{deforestation rate in Project area in baseline scenario}$

**Table 3.20. ΔGHG from avoided deforestation excluding ANR and harvest areas**

| Year | 1          |
|------|------------|
| 2020 | 474,115.47 |
| 2021 | 492,255.29 |

ΔGHG from deforestation due to leakage:

$$\textcircled{2} = \sum_{i=1}^{nrFNFtransitions} \sum_{tt=1}^t u_{classification} \cdot u_{transition}(i) \cdot \left( \begin{array}{l} +\Delta area_{leakageArea,projectScenario}(t,i) \\ -\Delta area_{leakageArea,baselineScenario}(t,i) \end{array} \right) \cdot (EF_{AGL}(i) + EF_{AGD}(i, t - tt) + EF_{BG}(i, t - tt) + EF_{SOM}(i, t - tt)) \quad [EQ108]$$

$U_{classification} = 1$

$U_{transition} = 1$

$\Delta area_{leakageArea,projectScenario,DF}(t) =$  Hectares undergoing transition  $ii$  within the leakage area under the project scenario during year  $tt$ , in ha yr-1.

$\Delta area_{leakageArea,baselineScenario,DF}(t) =$  Hectares undergoing transition  $ii$  within the leakage area under the baseline scenario during year  $tt$ , in ha yr-1.

In both cases, transition area is 100% of deforestation rate in the leakage area in both scenarios.

**Table 3.21. ΔGHG from deforestation due to leakage**

| Year | 2          | If, is > 0, is = 0 |
|------|------------|--------------------|
| 2020 | 333,893.38 | 0                  |
| 2021 | 392,334.08 | 0                  |

ΔGHG from avoided degradation:

$$\textcircled{3} = \sum_{i=1}^{nrStrataTransitions} \sum_{tt=1}^t u_{stratification} \cdot u_{transition}(i) \cdot \left( \begin{array}{l} +\Delta area_{projectAreaEAH,projectScenario}(t,i) \\ -\Delta area_{projectAreaEAH,baselineScenario}(t,i) \end{array} \right) \cdot (EF_{AGL}(i) + EF_{AGD}(i, t - tt) + EF_{BG}(i, t - tt) + EF_{SOM}(i, t - tt)) \quad [EQ109]$$

It is equivalent to 0.00.

$\Delta$ GHG from degradation due to leakage:

[EQ110]

$$\textcircled{4} = \sum_{i=1}^{nrStrataTransitions} \sum_{tt=1}^t u_{stratification} \cdot u_{transition}(i) \cdot \left( \begin{array}{c} +\Delta area_{leakageArea,projectScenario}(t,i) \\ -\Delta area_{leakageArea,baselineScenario}(t,i) \end{array} \right) \cdot (EF_{AGL}(i) + EF_{AGD}(i, t - tt) + EF_{BG}(i, t - tt) + EF_{SOM}(i, t - tt))$$

It is equivalent to 0.00.

$\Delta$ GHG from leakage by unconstrained geographic drivers:

$$\textcircled{5} = -GHG_{otherLeakageSources}(t) - GHG_{marketLeakage}(t) \quad [EQ111]$$

It is equivalent to 0.00.

$\Delta$ GHG from assisted natural regeneration:

$$\textcircled{6} = C_{ANR}(t) \quad [EQ112]$$

It is equivalent to 0.00.

$\Delta$ GHG from changes in long-lived wood products:

$$\textcircled{7} = \frac{44}{12} \cdot (C_{LWP,project}(t) - C_{LWP,baseline}(t)) \quad [EQ113]$$

$C_{LWP,project}(t)$  : Carbon stock in long-lived wood products under the baseline scenario during year t, in Mg C.

$C_{LWP,baseline}(t)$  : Carbon stock in long-lived wood products under the project scenario during year t, in Mg C.

$$C_{LWP,project}(t) = \sum_{s,wp,ppb,oir}^{ty} C_{HWP,project}(ty, t) \cdot (1 - ww f(ty))(1 - slp(ty))(1 - fo(ty))$$

$$C_{LWP,baseline}(t) = \sum_{s,wp,ppb,oir}^{ty} C_{HWP,baseline}(ty, t) \cdot (1 - ww f(ty))(1 - slp(ty))(1 - fo(ty)) \quad [EQ103]$$

$ww f(ty)$ : Fraction of carbon in harvested wood products that is emitted immediately because of mill inefficiency for wood class, 24%.

$slp(ty)$ : Proportion of short-lived products, 0.2.

$fo(ty)$ : Fraction of carbon that will be emitted to the atmosphere between 5 and 100 years of harvest for wood class, 0.85.

$$C_{HWP,project}(ty, t) = \sum_{h=1}^{HPS} \sum_{j=1}^{SPS} \left( (DT_{project}(h, j, ty, t) + CT_{project}(h, j, ty, t)) \cdot \rho_{wood,j} \cdot CF \right) \quad [EQ102]$$

$$C_{HWP,baseline}(ty, t) = \sum_{h=1}^{HPS} \sum_{j=1}^{SPS} \left( (DT_{baseline}(h, j, ty, t) + CT_{baseline}(h, j, ty, t)) \cdot \rho_{wood,j} \cdot CF \right)$$

where:

|                              |                                                                                                                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $C_{HWP,project}(ty, t)$     | = Total carbon stock in long-lived wood products within the project boundary for class $ty$ during time $t$ of wood product $ty$ in the project and baseline scenario, respectively [Mg C]                                                                          |
| and                          |                                                                                                                                                                                                                                                                     |
| $C_{HWP,baseline}(ty, t)$    |                                                                                                                                                                                                                                                                     |
| $DT_{project}(h, j, ty, t)$  | = The volume of timber extracted from within the project boundary during harvest $h$ by species $j$ and wood product class $ty$ during year $t$ in the project and baseline scenario, respectively. DT = domestic timber; CT = commercial timber [m <sup>3</sup> ]. |
| $DT_{baseline}(h, j, ty, t)$ |                                                                                                                                                                                                                                                                     |
| $CT_{project}(h, j, ty, t)$  |                                                                                                                                                                                                                                                                     |
| $CT_{baseline}(h, j, ty, t)$ |                                                                                                                                                                                                                                                                     |
| $\rho_{wood,j}$              | = Wood density of harvested species or species group $j$ [Mg DM m <sup>-3</sup> ]                                                                                                                                                                                   |
| $h$                          | = 1, 2, 3, ..., $HPS$ number of harvests [-]                                                                                                                                                                                                                        |
| $j$                          | = 1, 2, 3, ..., $SPS$ harvested tree species [-]                                                                                                                                                                                                                    |
| $ty$                         | = Wood product class – defined here as sawn wood (sw), wood-based panels (wp), other industrial round wood (oir), and paper and paper board (ppb).                                                                                                                  |
| $CF$                         | = Carbon fraction of wood [Mg C (Mg DM) <sup>-1</sup> ] (default value = 0.5)                                                                                                                                                                                       |

$DT_{project}$  and  $DT_{baseline}$  are equal to 0.00.

For  $CT_{baseline}$ , and  $CT_{project}$ , the values were provided by the consolidated MADERACRE SAC, according to the extractions that it has been carrying out from 2020 to 2021, obtaining the volume of wood extracted annually from each species harvested in m3/year.

Then both  $C_{HWPproject}$  and  $C_{HWPbaseline}$  were calculated by multiplying the basic density of each species by the harvested volume and the carbon factor, this for each year in the same way, likewise the carbon in long-lived wood products is found in the project scenario multiplying the  $C_{HWPproject}$  or  $C_{HWPbaseline}$  by the fraction of carbon that will be emitted into the atmosphere ( $f_o$ ), by the proportion of short-lived products ( $s/p$ ), and by the applicable fraction ( $wwf$ ) which is 24%. And finally, there is the net change in carbon stocks in long-lived wood products for each year, subtracting the carbon in long-life wood products from the project scenario minus the reference scenario.

All these calculations can be seen in the excel calculations of emissions and net removals, sheet 7.

**Table 3.22. Carbon content in harvested wood products within project area (2020 y 2021)**

| Year              | $C_{HWP,project}(ty,t)$<br>Total carbon<br>content in<br>harvested wood<br>products within<br>project<br>boundaries [Mg<br>C] | $CT_{Project}$ :<br>Volume of<br>annual<br>harvested<br>wood, round<br>wood for<br>commercial<br>sales [m <sup>3</sup> /year] | Common Name     | Basic density<br>per specie,<br>using Table<br>GPG-LULUCF<br>3A.1.9<br>[Mg.dm/m <sup>3</sup> ] |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------|
| 2020              | 317.43                                                                                                                        | 906.96                                                                                                                        | ANA CASPI       | 0.7                                                                                            |
|                   | 448.84                                                                                                                        | 1447.89                                                                                                                       | AZUCAR<br>HUAYO | 0.62                                                                                           |
|                   | 1.82                                                                                                                          | 6.17                                                                                                                          | CACHIMBO        | 0.59                                                                                           |
|                   | 22.81                                                                                                                         | 106.11                                                                                                                        | CAOBA           | 0.43                                                                                           |
|                   | 635.81                                                                                                                        | 1630.28                                                                                                                       | ESTORAQUE       | 0.78                                                                                           |
|                   | 277.15                                                                                                                        | 1289.09                                                                                                                       | ISHPINGO        | 0.43                                                                                           |
|                   | 38.49                                                                                                                         | 109.98                                                                                                                        | ITAUBA          | 0.7                                                                                            |
|                   | 456.19                                                                                                                        | 1546.42                                                                                                                       | MASHONASTE      | 0.59                                                                                           |
|                   | 0.67                                                                                                                          | 1.62                                                                                                                          | PALO BASTON     | 0.83                                                                                           |
|                   | 196.82                                                                                                                        | 452.46                                                                                                                        | QUINILLA        | 0.87                                                                                           |
|                   | 42.83                                                                                                                         | 127.86                                                                                                                        | REMO CASPI*     | 0.67                                                                                           |
|                   | 4,237.02                                                                                                                      | 9111.87                                                                                                                       | SHIHUAHUACO     | 0.93                                                                                           |
|                   | 19.90                                                                                                                         | 43.26                                                                                                                         | TAHUARI         | 0.92                                                                                           |
| <b>Total 2020</b> | 6,695.81                                                                                                                      |                                                                                                                               |                 |                                                                                                |
| 2021              | 351.05                                                                                                                        | 1003.01                                                                                                                       | ANA CASPI       | 0.7                                                                                            |
|                   | 406.53                                                                                                                        | 1311.37                                                                                                                       | AZUCAR<br>HUAYO | 0.62                                                                                           |
|                   | 1,567.89                                                                                                                      | 4020.24                                                                                                                       | ESTORAQUE       | 0.78                                                                                           |
|                   | 248.84                                                                                                                        | 1157.41                                                                                                                       | ISHPINGO        | 0.43                                                                                           |
|                   | 5,390.50                                                                                                                      | 11592.47                                                                                                                      | SHIHUAHUACO     | 0.93                                                                                           |
| <b>Total 2021</b> | 7,964.82                                                                                                                      |                                                                                                                               |                 |                                                                                                |

**Table 3.23. Net variation of existences in 2020 y 2021**

| Year | Net variations of carbon content in long-term wood products during year t [Mg CO <sub>2</sub> ] | Carbon in long-term wood products within project scenario [Mg C] |
|------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 2020 | 0.00                                                                                            | 610.66                                                           |
| 2021 | 0.00                                                                                            | 1,792.31                                                         |

The total net variation of the carbon content in wood products in the long term in 2020 is found in the following table, the average of this term was used for the following years 2022-2026.

**Table 3.24. ΔGHG from changes in long-lived wood products**

| Year | 7 (tCO <sub>2</sub> ) |
|------|-----------------------|
| 2020 | 0.00                  |
| 2021 | 0.00                  |

ΔGHG from GHG Emissions Reduction from Cookstove and Fuel Efficiency (CFE):

$$\textcircled{8} = ER_{CFE}(t) \quad [\text{EQ114}]$$

It is 0.00.

ΔGHG from other and secondary sources:

$$\textcircled{9} = -GHG_{fireBreaks}(t) - GHG_{sources,leakagePrevention}(t) - GHG_{sources,ANR}(t) \quad [\text{EQ115}]$$

It is 0.00.

ΔGHG from avoided deforestation and degradation from areas under harvest

In case:

$$\sum_i^t \Delta C_{areaWithHarvest}(i) \geq \sum_{i=1}^{nrStrata} area_{projectAreaWithHarvest,projectScenario}(t,i) \cdot LTAC_{Harvest}$$

$$\textcircled{10} = 0$$

$$LTAC_{harvest} = \frac{\sum_{t=0}^T \sum_{i=1}^{nrStrata} C_{harvest}(t,i) \cdot u_{inventory,harvest}(i)}{T} \quad [\text{EQ79}]$$

With Minimal time period for estimating long term average (T) of 40 years, the  $LTAC_{harvest}$  is 789.10 tCO<sub>2</sub>e/ha.

For this reason, according to EQ80, as  $area_{projectAreaWithHarvest,projectScenario}(t,i) * LTAC_{harvest}$ , is greater than  $\Delta C_{areaWithHarvest}(t)$ ,  $\Delta GHG$  from avoided deforestation from areas under harvest (10) is equal to  $\Delta C_{areaWithHarvest}(t)$ .

**Table 3.25. Density of carbon stocks in harvested areas in stratum ii in year t**

| Year | $\Delta C_{areaWithHarvest}$ : Density of carbon stocks in harvested areas in stratum ii in year t [tCO <sub>2</sub> /ha] |
|------|---------------------------------------------------------------------------------------------------------------------------|
| 2020 | 24,465.69                                                                                                                 |
| 2021 | 55,460.73                                                                                                                 |

The NERs generated during this monitoring period are the following:

**Table 3.26. Net GHG emissions reductions**

| Year         | Net Emission Reductions (NERs) [tCO <sub>2</sub> ] | 1          | 2 | 7 | 10        |
|--------------|----------------------------------------------------|------------|---|---|-----------|
| 2020         | 498,581                                            | 474,115.47 | 0 | 0 | 24,465.69 |
| 2021         | 547,716                                            | 492,255.29 | 0 | 0 | 55,460.73 |
| <b>TOTAL</b> | <b>1,046,297</b>                                   |            |   |   |           |

The following tables presents the summary results for the 2020-2021 monitoring period.

**Table 3.27. Summary Results**

|                                                                                                       |                                                                             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| State the non-permanence risk rating (%)                                                              | 10%                                                                         |
| Has the non-permanence risk report been attached as either an appendix or a separate document?        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No         |
| For ARR and IFM projects with harvesting, state, in tCO <sub>2</sub> e, the Long-term Average (LTA).  | N.A.                                                                        |
| Has the LTA been updated based on monitored data, if applicable?                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>N.A. |
| State, in tCO <sub>2</sub> e, the expected total GHG benefit to date.                                 | -                                                                           |
| If a loss occurred (including a loss event or reversal), state the amount of tCO <sub>2</sub> e lost: | -                                                                           |

**Table 3.28 Results/month/year**

| Vintage period             | Baseline emissions (tCO <sub>2</sub> e) | Project emissions (tCO <sub>2</sub> e) | Leakage emissions (tCO <sub>2</sub> e) | Buffer pool allocation (tCO <sub>2</sub> e) | Reductions VCU (tCO <sub>2</sub> e) | Removals VCU (tCO <sub>2</sub> e) |
|----------------------------|-----------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------------|-------------------------------------|-----------------------------------|
| 01-Jan-2020 to 31-Dec-2020 | 483,849.2                               | -14,732.0                              | 0.00                                   | 49,859                                      | 448,722                             | -                                 |
| 01-Jan-2021 to 31-Dec-2021 | 519,153.9                               | -28,562.1                              | 0.00                                   | 54,772                                      | 492,944                             | -                                 |
| Total                      | 1,003,003.1                             | -43,294.1                              | 0.00                                   | 104,631                                     | 941,666                             | -                                 |

**Table 3.29 Results vintage period**

| Vintage period             | Ex-ante estimated reductions/removals | Achieved reductions/removals | Percent difference | Explanation for the difference                                                                                                                                                                        |
|----------------------------|---------------------------------------|------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01-Jan-2020 to 31-Dec-2020 | 349,046                               | 498,581                      | 42.84%             | In the current monitoring period, there were no deductions for leakage because the monitored deforestation in the leakage area was less than the estimated amount in the project scenario of the PDD. |
| 01-Jan-2021 to 31-Dec-2021 | 378,975                               | 547,716                      | 44.53%             |                                                                                                                                                                                                       |
| Total                      | 728,021                               | 1,046,297                    |                    |                                                                                                                                                                                                       |

### 3.3 Optional Criterion: Climate Change Adaptation Benefits

This section is not applicable.

#### 3.3.1 Activities and/or processes implemented for Adaptation (CCB, GL1.3)

This section is not applicable.

## 4 COMMUNITY

### 4.1 Net Positive Community Impacts

#### 4.1.1 Community Impacts (CCB, CM2.1)

As indicated in the PD, the community groups identified have been: Iñapari, San Francisco Asis, Flor de Acre, Oceania, La Republica, Chilina Vieja, San Antonio de Abad, San Isidro de Chilina, Arca Pacahuara, Noaya, Villa Primavera, Nueva Esperanza and the Belgica Native Community.

Community impacts are as follows:

**Table 4.1. Crop productivity: No impacts were recorded for the period**

| Community Group           | Local families                                                                                                                                                                                                      |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Impact                    | Crops productivity                                                                                                                                                                                                  |
| Type of Benefit/Cost/Risk | <ul style="list-style-type: none"> <li>- Benefit</li> <li>- Prediction.</li> <li>- Direct impact, given the technical assistance of REDD project.</li> </ul> Classified as benefit: Increase in crops productivity. |
| Change in Well-being      | For the year 2020-2021 there are no changes recorded since the implementation of projects and actions for this impact will be executed after the carbon revenues (2023).                                            |

**Table 4.2. Stabilization of the agricultural frontier: No impacts were recorded for the period**

| Community Group           | Local families                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Impact                    | Agrarian frontier stabilization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Type of Benefit/Cost/Risk | <ul style="list-style-type: none"> <li>- Benefit</li> <li>- Prediction.</li> <li>- Indirect impact: The improvement of productive practices should imply a stabilization of agrarian frontier.</li> <li>- Classified as benefit: The expansion of agrarian frontier is a necessity because productivity decreases as a consequence of inappropriate production techniques and land use, but the new areas are further away implying more costs than previous ones. For this reason, if the project may help them to maintain their actual incomes without need to expand to new areas, this will be a net benefit for local families.</li> </ul> |
| Change in Well-being      | For the year 2020- 2021 there are no changes recorded since the implementation of projects and actions for this impact will be executed after the carbon revenues (2023).                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Table 4.3. Support for education, health and other resources (water): Impacts are recorded for the period**

| Community Group           | Neighboring settlements                                                                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Impact(s)                 | Support to education, health and other resources (as water access as a consequence of the protection of water natural sources) for rural and urban neighboring settlements. |
| Type of Benefit/Cost/Risk | Benefit<br>Prediction.<br>Direct support from activities.<br>Classified as benefit: improved access to public services and water quality and availability.                  |
| Change in Well-being      | Enhanced quality in education, health and water access                                                                                                                      |

The impacts are presented for each community or stakeholder group that has been impacted in the indicated period.

| Community Group           | <i>Belgica Native community</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Impact(s)                 | <b>Improved quality and access to health and education services.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Type of Benefit/Cost/Risk | <p>In view of the high gap existing in the Education and Health public services, the following actions were carried out for the period 2020 - 2021:</p> <p><b>2020</b></p> <p>Health Cooperation Agreement between MADERACRE SAC and the Belgica Native Community that allows to pay an additional bonus to the nursing technician who provides services in the community, a bonus equivalent to S/. 300.00 per month, as well as support with a supply of medicines valued at S/. 200.00. Donation of S/. 100 for health campaign.</p> <p>Cooperation Agreement in Education between MADERACRE SAC and Belgica Native Community that considers the delivery of bonuses to teachers of kindergarten and elementary school equivalent to S/. 200.00 monthly to each teacher.</p> <p><b>2021</b></p> <p>Cooperation Agreement in Health between MADERACRE SAC and Belgica Native Community that allows paying an additional bonus to the nursing technician who provides services in the community, a bonus equivalent to S/. 300.00 per month, as well as support with a supply of medicines valued at S/. 200.00.</p> <p>Education Cooperation Agreement between MADERACRE SAC and Belgica Native Community that considers the delivery of bonuses to teachers of kindergarten and elementary school equivalent to S/. 200.00 monthly to each teacher; that is, S/.400 monthly to complete the teaching hours and whatever the community needs in terms of education.</p> <p>CEBA Agreement (Alternative Basic Education Center) and MADERACRE SAC: For the support in the monitoring of student attendance, coordination for the enrollment of beneficiaries, amount of S/.50.00 for the purchase of gallons of fuel for income</p> |

|                             |                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | to the community; economic support with the tickets of the teacher from Puerto Maldonado to Iñapari (S/. 70.00); transfer of the director of Iberia (S/. 30.00), ticket for Iberia teachers (S/.30.00) and a bonus of S/. 300.00 for the mathematics teacher. The service was semi-distance with the support of CEBA Iberia, and 28 members of the community were supported in their studies. |
| <b>Change in Well-being</b> | Enhanced quality in education and health for 110 beneficiaries.                                                                                                                                                                                                                                                                                                                               |

| <b>Community Group</b>           | <i>Population of Iñapari</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Impact(s)</b>                 | <b>Improved quality and access to health and education services.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Type of Benefit/Cost/Risk</b> | <p>For the 2020 -2021 period, the following actions were carried out:</p> <p><b>2020</b></p> <p>Collection of useless materials that can be breeding grounds for mosquitoes that transmit diseases such as dengue fever, among others.</p> <p>Agreement between the Iñapari Secondary School and the MADERACRE SAC company for the development of training and workshops.</p> <p>Importance of forests</p> <p>MADERACRE SAC and its work in the forest.</p> <p>Prevention against COVID 19 (in this case it was only a lecture).</p> <p>Donation of 35 seedlings and 1825 pieces of wood for 125 beneficiaries de la I.E.B.R. Iñapari.</p> <p>Agreement for the operation of an Alternative Basic Education Center (CEBA): This action allows senior citizens who have not been able to complete their primary and secondary education to conclude their studies and thus have better opportunities for their personal and family development. The agreement was signed with CEBA Dos de Mayo, the Regional Education Directorate of Madre de Dios and MADERACRE SAC (15 beneficiaries). This year the agreement did not develop normally due to the Pandemic situation; however, 15 students from Iñapari were able to attend the CEBA of Iberia, who took their classes virtually.</p> <p><b>2021</b></p> <p>A piece of furniture was delivered to the Iñapari Health Post CLASS tres Fronteras, specifically to the Healthy Child Growth and Development (CRED) area.</p> <p>Maintenance work was performed in the Iñapari solid waste disposal area from 10:00 am to 4:00 pm, at the request of the Provincial Municipality of Tahuamanu. This, with a Caterpillar Caterpillar DGR - LG P III Series TXH 04119 inventory number p0324, including operator service and fuel.</p> <p>CEBA Iñapari and MADERACRE SAC Agreement, which supports the monitoring of students, providing the amount of S/. 50.00 for fuel for classroom classes, coordination for the enrollment of beneficiaries, transfer of the teacher from Iberia to Iñapari with the economic support of S/.20 per week and support</p> |

|                             |                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|
|                             | with printing for students. The classes were conducted virtually, benefiting 30 people from the town of Iñapari. |
| <b>Change in Well-being</b> | Enhanced quality in education and health beneficiaries                                                           |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Community Group</b>           | <i>Iberia</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Impact(s)</b>                 | <b>Improved quality and access to education services.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Type of Benefit/Cost/Risk</b> | <p>For the 2020-2021 period, the following actions were carried out:</p> <p>2020<br/>Specific agreement for academic training and training experiences in real work situations signed by the Instituto de Educación Superior Tecnológico Público Iberia Tahuamanu and the MADERACRE SAC company. This agreement allows MADERACRE SAC workers to pursue higher technical studies in order to obtain better alternatives for their professional development. Two employees benefited; however, one dropped out of the process.</p> <p>2021<br/>Specific agreement for academic training and training experiences in real work situations signed by the Instituto de Educación Superior Tecnológico Público Iberia Tahuamanu and the MADERACRE SAC company. This agreement allows MADERACRE SAC workers to pursue higher technical studies in order to obtain better alternatives for their professional development. 05 employees benefited and 01 collaborator in his second year of studies</p> |
| <b>Change in Well-being</b>      | Enhanced quality in education beneficiaries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Community Group</b>           | <i>Noaya</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Impact(s)</b>                 | <b>Improved quality and access to education services.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Type of Benefit/Cost/Risk</b> | <p>For the 2020-2021 period, the following actions were carried out:</p> <p>2020<br/>They were not registered.</p> <p>2021<br/>It is coordinated with the I.E. N° 52056 - Noaya the delivery of 44 pieces of wood of "manchinga" of different dimensions for the repairs of the entrance gate to the institution and manufacture of furniture for the realization of semi-presential classes that are planned, this donation was made with the aim of contributing to the educational quality of the population, to improve the learning spaces where the student develops.</p> <p>We coordinated with I.E. N° 52056 - Noaya the delivery of 13 pieces of wood from "shihuahuaco" and "azúcar huayo", continuing with actions that allow us to provide support to the education services.</p> |
| <b>Change in Well-being</b>      | Enhanced quality in education beneficiaries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Community Group</b>           | <b>Iñapari, Belgica Native Community, Nueva Esperanza, Villa Primavera, San Isidro de Chilina, Noaya, Iberia, Pacahuara Flor de Acre, Chilina Vieja, La República, San Antonio Abad, San Francisco de Asis and Oceania</b>                                                                                                                                                                                                         |
| <b>Impact(s)</b>                 | Contribution to sustaining environmental conditions for access to water.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Type of Benefit/Cost/Risk</b> | The following actions were carried out for the 2020-2021 period: The project area covers a large proportion of the upper and middle reaches of the watersheds that serve to supply water for downstream populations in the project's area of influence. The conservation of forest cover, low-impact management practices, and environmental safety contribute to maintaining the quantity and quality of surface and groundwater. |
| <b>Change in Well-being</b>      | Contribute to the conservation of water resources used by the communities in the project's area of influence to obtain drinking water.                                                                                                                                                                                                                                                                                             |

Evidence of the Evidence of the detailed activities can be viewed in report folders:

- Community support > 2020\_Community > Benefit Metric
- Community support > 2020\_Community > Community Impacts
- Community support > 2021\_Community > Benefit Metric
- Community support > 2021\_Community > Community Impacts

Improvement of the living conditions of indigenous groups

As mentioned above, the only indigenous group that interacts with the other communities surrounding the Project is the Belgica Native Community, the benefits and impacts on this community are shown in the following table.

**Table 4.4. Improvement of living conditions of indigenous groups**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Community Group</b>           | <b>Belgica Native community</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Impact(s)</b>                 | <b>Improved living conditions for indigenous groups.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Type of Benefit/Cost/Risk</b> | <p>The following benefits were realized for the period 2020 -2021:</p> <p>2020</p> <p>Health Cooperation Agreement between MADERACRE SAC and Belgica Native Community that allows to pay an additional bonus to the nursing technician who provides services in the Belgica Native Community, a bonus equivalent to S/. 300.00 per month, as well as support with a supply of medicines valued at S/. 200.00.</p> <p>Donation of S/. 100 for health campaign.</p> <p>Cooperation Agreement in Education between MADERACRE SAC and Belgica Native Community that considers the delivery of bonuses to teachers of kindergarten and elementary school equivalent to S/. 200.00 monthly to each teacher.</p> <p>2021</p> |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | <p>Cooperation Agreement in Health between MADERACRE SAC and Belgica Native Community that allows paying an additional bonus to the nursing technician who provides services in the Belgica Native Community, a bonus equivalent to S/. 300.00 per month, as well as support with a supply of medicines valued at S/. 200.00.</p> <p>Education Cooperation Agreement between MADERACRE SAC and Belgica Native Community that considers the delivery of bonuses to teachers of kindergarten and elementary school equivalent to S/. 200.00 monthly to each teacher; that is, S/.400 monthly to complete the teaching hours and whatever the community needs in terms of education.</p> <p>CEBA Agreement (Alternative Basic Education Center) and MADERACRE SAC: For the support in the monitoring of student attendance, coordination for the enrollment of beneficiaries, amount of S/.50.00 for the purchase of gallons of fuel for income to the community; economic support with the tickets of the teacher from Puerto Maldonado to Iñapari (S/. 70.00) ); transfer of the director of Iberia (S/. 30.00), ticket for Iberia teachers (S/.30.00) and a bonus of S/. 300.00 for the mathematics teacher. The service was semi-distance with the support of CEBA Iberia, and 28 members of the community were supported in their studies.</p> <p>MADERACRE SAC has been working in the area for more than 20 years, maintaining a close relationship with Belgians community during this time, which has made it possible to transmit through dialogue the benefits of sustainable forest management for the conservation of forests and the development of the natural community. Thus, Belgica Native Community has been conducting FSC-certified forestry operations in its own territory and has recently developed a REDD+ project. However, the project will also use income from the sale of carbon credits to develop programs with the community to help reduce deforestation and improve the quality of life of the community.</p> |
| <b>Change in Well-being</b> | Improved health conditions, education, and sustainable development of the community.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Evidence of the Evidence of the detailed activities can be viewed in report folders:

- Community support > 2020\_Community > Unic Metric
- Community support > 2020\_Community > Community Impacts
- Community support > 2021\_Community > Unic Metric
- Community support > 2021\_Community > Community Impacts

In addition, as part of the education and awareness activities for the PIACI communities, the interpretation center and auxiliary areas are being plan to contribute to the communities' knowledge of their values and the protection of indigenous peoples in voluntary isolation and their territory.

On the other hand, there is another indigenous group that, although not part of the surrounding communities, are present in the upper parts of the watersheds close to the project area and remain in voluntary isolation; in this sense, the project area plays a key role as a buffer zone that contributes

to safeguarding the territory and the indigenous populations in voluntary isolation and initial contact (PIACI). The impacts of the project's actions on the PIACI and their territory are described below.

**Table 4.5. Impacts of project actions on PIACIs and their territory**

| Community Group           | PIACI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Impact(s)                 | Improved living conditions for indigenous groups in isolation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Type of Benefit/Cost/Risk | <p>For the 2020 - 2021 period, the following actions were carried out:</p> <p>2020</p> <p>Tripartite inter-institutional cooperation agreement between the head of the Alto Purus National Park, MADERACRE SAC company and AVISA Frankfurt Zoological Society Peru, effective 2020.</p> <p>Virtual meeting with the Alto Purus National Park to propose alliances to improve control and surveillance of the Tahuamanu River, the main river access route to the Madre de Dios Territorial Reserve, territory of Indigenous or Native Peoples in Isolation or Initial Contact (PIACI).</p> <p>Elaboration of the anthropological contingency plan to face risk situations in case of evidence or encounters with indigenous population in isolation or initial contact (PIACI).</p> <p>Training for custodians on the Anthropological Contingency Plan for dealing with risk situations in the event of evidence or encounters with PIACI.</p> <p>Training to collaborators on the Anthropological Contingency Plan for dealing with risk situations in the event of evidence or encounters with PIACI.</p> <p>Dissemination to stakeholders of the Anthropological Contingency Plan for dealing with risk situations in the event of evidence or encounters with PIACI.</p> <p>Management of the taricaya populations (aquatic turtle) populations in the Tahuamanu River in order to contribute to the conservation of this species that is part of the diet of the PIACI and thus contribute to the food security of these highly vulnerable populations.</p> <p>2021</p> <p>Anthropological contingency plan for dealing with risk situations in the event of evidence or encounters with indigenous people in isolation or initial contact (PIACI).</p> <p>Training to custodians on the Anthropological Contingency Plan to face risk situations in case of evidence or encounters with PIACI.</p> <p>Training to collaborators on the Anthropological Contingency Plan for dealing with risk situations in the event of evidence or encounters with PIACI.</p> <p>Dissemination to stakeholders of the Anthropological Contingency Plan to face risk situations in case of evidence or encounters with PIACI.</p> |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | <p>Tripartite inter-institutional cooperation agreement between the head of the Alto Purus National Park, MADERACRE SAC company and AVISA Frankfurt Zoological Society Peru, effective 2021.</p> <p>Vaccinations to the Evaluation and Monitoring area in coordination with the Iñapari Health Post, activity with the objective of complying with the Anthropological Contingency Plan to face risk situations in case of evidence or encounters with Indigenous Population in Isolation or Initial Contact (PIACI).</p> |
| <b>Change in Well-being</b> | Improved protection conditions for PIACI peoples.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Evidence of the Evidence of the detailed activities can be viewed in report folders:

Community support > 2020\_Community > Unic Metric > PIACI

Community support > 2021\_Community > Unic Metric > PIACI

#### 4.1.2 Negative Community Impact Mitigation (VCS, 3.19; CCB, CM2.2)

Regarding the impact on the well-being of community groups related to the high HCV conservation values according to the PD, no possible risks are identified.

Although no latent risks have been identified, the project monitors possible risks such as:

- Advance of deforestation due to agricultural or other activities near areas that supply resources to meet the needs of local or indigenous communities and areas of virgin biodiversity.
- Degradation with cultural, natural, economic, or socio-cultural value in the area of influence of the project and surrounding communities.

In this regard, the main activities are as follows:

- PRA Studies: PRA qualitative study to assess the potential for degradation by anthropogenic action. The current assessment for the 2020 period summarizes that the degradation potential of the population, mainly located in Iñapari, is low or lacks potential. In the case of firewood, it was found that the first source of firewood is obtained by extraction within the property (60.6%), followed by purchase (25.4%). In the case of charcoal and wood, these are obtained firstly by purchase (82.1% and 64.5%, respectively) and secondly by extraction from their own property, especially in the case of wood (9.5% and 32.3%, respectively). Likewise, 8.4% of those who use charcoal stated that charcoal is a gift, since the respondent or a family member works for or owns a company that sells charcoal. It should be noted that those who obtain firewood by other means indicated that they use the remains of wood used for construction. In none of the cases in which the wood for firewood or as such is extracted outside their property or by other means, the wood corresponds to the area of the companies' concession or neighboring area. When asked about the land from which the timber is extracted, people were able to give references to the location, roads used, and distances; it was found that none of these zones corresponds to the project area. With respect to 2021, it was found that firewood, charcoal, and timber

are obtained mainly by extraction within the property (95.6%, 60% and 82.8%, respectively). In the case of firewood, two families can also obtain it outside their property (2.9%) and one family buys it in the local market (1.5%). Similarly, wood supply is obtained through purchase (15.5%) and one family also obtains it through extraction outside their property (1.7%). Charcoal is also obtained through purchase (40%). The PRA studies are conducted every two years; therefore, the validation period contemplates the results of the 2019 and 2021 studies with the aforementioned precisions<sup>72</sup>.

- Promotional actions for the protection of PIACI territory: The project is located in the buffer zone of the PIACI population; therefore, surveillance and custody activities, biodiversity protection and monitoring actions, PIACI training, the PIACI response protocol, the agreements signed, and the presence of the REDD Project generate protection measures for the possible risk of invasion or increase of agricultural areas in these sectors.
- Environmental awareness of the importance of forest resources and forests: Has been carried out through citizen participation workshops, advisory committee meetings, and the development and dissemination of information materials, among others. During 2020, despite the context of COVID 19, we continued to share information regarding sustainable forest management and the importance of forests through the following events:
  - 2020 and 2021 Participatory Workshops.
  - 2020 and 2021 Advisory Committees.
  - Informative material for 2020 and 2021.
  - Training for 2020 and 2021 Project collaborators.
  - Talks to educational institutions in Iñapari aimed at young people and children within the framework of the Education Agreement with the town of Iñapari.

The PRA 2019 and 2021 study, PIACI actions and environmental awareness activities are available to the audit team.

#### 4.1.3 Net Positive Community Well-Being (VCS 3.19; CCB, CM2.3, GL1.4)

As described in the PD, the project plans to invest 2% of revenues in the promotion of environmentally friendly initiatives that contribute to the reduction of deforestation and capacity building. The impact in terms of productivity, recovery of degraded areas and conservation will be part of the follow-up plan. These actions will be initiated from the revenues obtained from the sale of carbon credits. In addition, the project invests and will invest in reducing gaps in health and education and will contribute to the maintenance of water quality in the watersheds where the project area is located.

<sup>72</sup> Community support > Additional documents

The net impacts of the project with respect to the community indicators are presented below

**Table 4.6. Net impacts of the project on community indicators**

| Community Group       | Indicators                       |                                            |                                          |                                 | Net impact |
|-----------------------|----------------------------------|--------------------------------------------|------------------------------------------|---------------------------------|------------|
|                       | Crop productivity                | Stabilization of the agricultural frontier | Support for health, education and others | Improved indigenous livelihoods |            |
| Iñapari               | No activities during this period | No activities during this period           | Activities described in section 4.1.1.   | Not applicable                  | Positive   |
| San Francisco Asís    | No activities during this period | No activities during this period           | Activities described in section 4.1.1.   | Not applicable                  | Positive   |
| Flor de acre          | No activities during this period | No activities during this period           | Activities described in section 4.1.1.   | Not applicable                  | Positive   |
| Oceanía               | No activities during this period | No activities during this period           | No activities during this period.        | Not applicable                  | Zero       |
| La República          | No activities during this period | No activities during this period           | No activities during this period         | Not applicable                  | Zero       |
| Chilina Vieja         | No activities during this period | No activities during this period           | Activities described in section 4.1.1.   | Not applicable                  | Positive   |
| San Antonio de Abad   | No activities during this period | No activities during this period           | No activities during this period         | Not applicable                  | Zero       |
| San Isidro de Chilina | No activities during this period | No activities during this period           | Activities described in section 4.1.1.   | Not applicable                  | Positive   |
| Arca Pacahuara        | No activities during this period | No activities during this period           | No activities during this period         | Not applicable                  | Zero       |
| Noaya                 | No activities during this period | No activities during this period           | Activities described in section 4.1.1.   | Not applicable                  | Positive   |
| Villa Primavera       | No activities during this period | No activities during this period           | Activities described in section 4.1.1.   | Not applicable                  | Positive   |
| Nueva Esperanza       | No activities during this period | No activities during this period           | Activities described in section 4.1.1.   | Not applicable                  | Positive   |

| Community Group          | Indicators                       |                                            |                                             |                                             | Net impact |
|--------------------------|----------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|------------|
|                          | Crop productivity                | Stabilization of the agricultural frontier | Support for health, education and others    | Improved indigenous livelihoods             |            |
| Belgica Native Community | No activities during this period | No activities during this period           | Activities described in Sections 1.2; 4.1.1 | Activities described in Sections 1.2; 4.1.1 | Positive   |
| Accumulated              | Zero                             | Zero                                       | Positive                                    | Positive                                    | Positive   |

On balance, the net impact is positive due to activities associated with support for education, health, water maintenance and others.

#### 4.1.4 Protection of High Conservation Values (CCB, CM2.4)

The HCVs identified in the PD are presented below.

**Table 4.7. HCVs determined in the PD**

|                                |                                                                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>High Conservation Value</b> | Community needs. Areas and resources that are key to satisfy basic needs of local communities or indigenous people (subsistence, health, nutrition, water, etc.) |
| <b>Qualifying Attribute</b>    | Improved access to basic needs                                                                                                                                   |
| <b>Focal Area</b>              | Lands belonging to surrounding communities                                                                                                                       |

|                                |                                                                                                                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>High Conservation Value</b> | Cultural values. Areas, resources, habitats and landscapes cultural, archeological or historically significant, at the national or global scope and/or of key importance (economic, ecological, cultural or religiously for local communities or indigenous people) |
| <b>Qualifying Attribute</b>    | Effective protection of PIACI lands<br>Enhanced well-being of indigenous communities                                                                                                                                                                                |
| <b>Focal Area</b>              | PIACI territory                                                                                                                                                                                                                                                     |

Community groups are not affected in the 2020- 2021 period by project activities, due to the following conditions:

**Community needs:** As described in items 1, 2 and 4, the project is already providing support for the basic needs of the community in terms of education, health, training, among others. Specific activities have already been listed. The project does not develop activities on areas that are used by the surrounding communities to meet some of their needs, as evidenced by the PRA study where it is evident that the population obtains forest resources from their own land, through purchases or gifts (PRA Study 2019). Another indicator is that during the 2020-2021 period, the project has not registered any social conflicts due to project occupation, environmental or cultural impacts, or illegal use of community resources.

**Cultural values:** As described in items 1, 2 and 4, the measures and actions carried out promote the protection of indigenous peoples and thus their culture and cultural, environmental, and social diversity. Likewise, it has been indicated that the project implements protection actions (agreements, custody, staff training, among others) in favor of PIACI peoples as it constitutes an affective buffer zone for a large part of their territory (Madre de Dios Territorial Reserve). During the 2020-2021 period, there have been no findings or presence of PIACI in the project area.

## 4.2 Other Stakeholder Impacts

### 4.2.1 Mitigation of Negative Impacts on Other Stakeholders (VCS, 3.18, 3.19; CCB, CM3.2)

The project does not generate negative impacts on other stakeholders. Regarding the welfare of other stakeholders in relation to the actions of the project, neighboring concessions and forest authority would benefit indirectly from the activities of the project, which has already been observed in this period and is expected to become more relevant in subsequent periods with the activities to be implemented with money from the sale of carbon credits.

### 4.2.2 Net Impacts on Other Stakeholders (VCS, 3.18, 3.19; CCB, CM3.3)

No net negative impacts on the well-being of other stakeholders have been generated during the period.

## 4.3 Community Impact Monitoring

### 4.3.1 Community Monitoring Plan (CCB, CM4.1, CM4.2, GL1.4, GL2.2, GL2.3, GL2.5)

The monitoring plan was designed to measure the variables and targets that need to be monitored in the community component, the types of measurements and sampling methods, and the frequency of monitoring and reporting for each type and method. The monitoring activities and indicators are developed by strategic lines of the project (see Section 2.1.1).

**Table 4.8. Project Diffusion 2020- 2021**

| Indicator                                                               | Indicator type | Method                 | Data (2020) | Data (2021) | Who measures             | When   | Who is measured with?                           |
|-------------------------------------------------------------------------|----------------|------------------------|-------------|-------------|--------------------------|--------|-------------------------------------------------|
| <b>Project activities visible and with social license</b>               |                |                        |             |             |                          |        |                                                 |
| <b>Number of meetings and training sessions held with the community</b> | Result         | Workshops and Meetings | 4           | 4           | Proponent of the Project | Annual | With all communities in the area of the project |

|                                                                                                             |        |          |   |   |                          |        |                                                 |
|-------------------------------------------------------------------------------------------------------------|--------|----------|---|---|--------------------------|--------|-------------------------------------------------|
| Participate in dialogue and management of Protected Areas, including the Madre de Dios Territorial Reserve. | Result | Meetings | 7 | 6 | Proponent of the Project | Annual | With all communities in the area of the project |
|-------------------------------------------------------------------------------------------------------------|--------|----------|---|---|--------------------------|--------|-------------------------------------------------|

Support pilot sustainable productive initiatives in the surrounding communities, reducing the expansion of the agricultural frontier and improving living conditions with 2% of the project's income.

**Table 4.9. Number of sustainable productive initiatives of the surrounding communities**

| Indicator                                                                   | Indicator type | Method         | Data                                                        | Who measures             | Who is measured |                                                |
|-----------------------------------------------------------------------------|----------------|----------------|-------------------------------------------------------------|--------------------------|-----------------|------------------------------------------------|
|                                                                             |                |                |                                                             |                          | When?           | with?                                          |
| Reduction of local pressure over the Project area environment               |                |                |                                                             |                          |                 |                                                |
| Number of sustainable productive initiatives of the surrounding communities | Result         | Talks Meetings | 0 (By 2020 - 2021 the project still has no carbon revenues) | Proponent of the Project | Annual          | With all communities inthe area of the project |

Strengthen/develop skills and capacities in the members of the families that are part of the selected projects, including the company's local workers.

**Table 4.10. Number of meetings and training sessions held with the community**

| Indicator                                                                                                                                                | Indicator | Method         | Data                                                      | Who                      | When   | Who is measured                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|-----------------------------------------------------------|--------------------------|--------|------------------------------------------------|
|                                                                                                                                                          | type      |                |                                                           | Measures                 |        | with?                                          |
| Stakeholders are convinced and loyal with the Project and are allies to share the benefits of the project and the benefits to manage forests sustainably |           |                |                                                           |                          |        |                                                |
| Number of meetings and training sessions held with the community                                                                                         | Result    | Talks Meetings | 0 (By 2020-2021 the project still has no carbon revenues) | Proponent of the Project | Annual | With all communities inthe area of the project |

**Table 4.11. Subsistence economy**

| Indicator                     | Indicator type | Method         | Data                            | When measures | With?                                           |
|-------------------------------|----------------|----------------|---------------------------------|---------------|-------------------------------------------------|
| Level of firewood consumption | Result         | PRA 2021 Study | 87 % (outside the project area) | Bianual       | With all communities in the area of the project |

|                                                                |        |                |                                      |         |                                                 |
|----------------------------------------------------------------|--------|----------------|--------------------------------------|---------|-------------------------------------------------|
| <b>Charcoal consumption level</b>                              | Result | PRA 2021 Study | 54.5 %<br>(outside the project area) | Bianual | With all communities in the area of the project |
| <b>Level of timber consumption for non-commercial purposes</b> | Result | PRA 2021 Study | 67.5 %<br>(outside the project area) | Bianual | With all communities in the area of the project |

It is expected that monitoring will include productive activities supported by MADERACRE SAC. The variables that will be measured are:

**Table 4.12. Community indicators**

| Variable                                                                                  | Type of measurement             | Sampling Method                                                 | Frequen cy | Data | Who measures      | Notes    |
|-------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------|------------|------|-------------------|----------|
| <b>Productivity (ton/ha)</b>                                                              | Survey                          | 95% level of confidence                                         | Annual     | 0    | Proponent: Social | Per crop |
| <b>Unit Price (Compared with price of families who do not access to project benefits)</b> | Survey                          | 10% margin of error<br>Base: Total beneficiaries of the project | Annual     | 0    | Proponent: Social |          |
| <b>Number of trainings received</b>                                                       | List of attendants of workshops |                                                                 | Annual     | 0    | Proponent: Social |          |

**Table 4.13. PIACI and Other Stakeholders indicators**

| Indicator                                                                                                                                           | Indicator type                       | Method                                                          | Data                                                                   | Who measures      | When   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|-------------------|--------|
| <b>Deforestation in PIACI territory</b>                                                                                                             | % of land deforestation              | GIS analysis                                                    | No Deforestation un PIACI territory                                    |                   |        |
| <b>Deforested areas in Forest Concessions inside Reference Region</b>                                                                               | % of increment in deforestation rate | Analysis of mappingresults of GEOBOSQUES                        | Baseline 2020- 1,13%<br>2021- 1,95%                                    | Project proponent | Annual |
| <b>Income from Forest Exploitation Right (DAF) paid to the Regional Forest and Wildlife Administration by Forest Concessions located inside the</b> | % of increment of income             | Annual registry from the Regional Forest and Wildlife Authority | See file Community Support: "Respaldo Pago Derecho de Aprovechamiento" | Project proponent | Annual |

## Reference Region

### 4.3.2 Monitoring Plan Dissemination (CCB, CM4.3)

The results of the social monitoring, with management indicators until 2020, have been disseminated through a letter sent to each community group and interest group. This document is called "Public summary of social and environmental monitoring" and was developed in July 2020 for the 2019 monitoring and for the 2020 harvest in 2021.

## 4.4 Optional Criterion: Exceptional Community Benefits

The project does not plan to apply to Community Gold Level.

### 4.4.1 Short-term and Long-term Community Benefits (CCB, GL2.2)

The project does not plan to apply to Community Gold Level.

### 4.4.2 Marginalized and/or Vulnerable Community Groups (CCB, GL2.4)

The project does not plan to apply to Community Gold Level.

### 4.4.3 Net Impacts on Women (CCB, GL2.5)

The project does not plan to apply to Community Gold Level.

### 4.4.4 Benefit Sharing Mechanisms (CCB, GL2.6)

The project does not plan to apply to Community Gold Level.

### 4.4.5 Governance and Implementation Structures (CCB, GL2.8)

The project does not plan to apply to Community Gold Level.

### 4.4.6 Smallholders/Community Members Capacity Development (CCB, GL2.9)

The project does not plan to apply to Community Gold Level.

## 5 BIODIVERSITY

### 5.1 Net Positive Biodiversity Impacts

#### 5.1.1 Biodiversity Changes (VCS, 3.19; CCB, B2.1)

The project does not plan to apply to Community Gold Level.

**Table 5.1. Biodiversity Impacts**

| Change in Biodiversity  | Maintenance and increase of the umbrella species.<br>No deforestation in the area. (Biodiversity Protection).<br>(Responds to activities Biodiversity 1, 2 and 4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monitored Change        | <p>There is no deforestation in the project area.</p> <p>Maintenance of species of the Order Primate (<i>Aloutta seniculus</i>, <i>Ateles Chamek</i>), species of the family Felidae (<i>Panthera onca</i>, <i>Puma concolor</i>), Tapiridae (<i>Tapirus terrestris</i>) and Accipitridae (<i>Harpia Harpyja</i>), of the family Cracidae (<i>Pipile cumanensis</i>, <i>Penelope jacquacu</i> and <i>Mitu tuberosa</i>), of the family Psittacidae (<i>celus</i> sp.) and of the family Testudinidae (<i>Geochelone denticulata</i>).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Justification of Change | <p>Patrols and the establishment and maintenance of signage are important in forest management areas because they help ensure the protection of biodiversity and prevent deforestation for several reasons:</p> <ol style="list-style-type: none"> <li>1. Biodiversity protection: Regular patrolling of forest areas can help detect and stop any illegal or harmful activities that may affect the area's biodiversity, such as poaching, illegal logging, extraction of vulnerable species, among others.</li> <li>2. Prevention of deforestation: Clear and visible signage in forest areas can deter those responsible for illegal deforestation and can help to easily identify protected areas.</li> <li>3. Monitoring and control: Patrolling allows forest managers to highlight critical areas and take corrective measures to strengthen the Custody and Surveillance Plan, in order to better safeguard the integrity of biodiversity and the project area.</li> <li>4. Sensitization and awareness-raising: Signage and patrols can help disseminate the importance of biodiversity conservation and prevention of deforestation, sensitizing and raising awareness among the local community about their role in protecting the environment. They also have an informative function in restricting activities such as illegal logging and hunting within the project area.</li> </ol> |
| Description             | <ol style="list-style-type: none"> <li>a. According to the Technical Report of the Forestry Operations Monitoring in the Consolidated MADERACRE ZAFRA 2020-2021, the following was concluded regarding the environmental impact of MADERACRE SAC, within the framework of the management plan for the forests it manages in Tahuamanu, Madre de Dios. The evaluation includes the following activities: Census, Logging, Harvesting, Hauling, Roads, Stockpiling, Dispatch and Transportation, activities that generate negative impacts on the forest. The monitoring was performed at PC 17, PC 18 and PC 19 and the areas of greatest vulnerability to deforestation risks of the forest management unit.</li> <li>b. During the logging operations, there were no reports of dead animals, or any impact on sites of importance for fauna, HCV sites, or alteration or obstruction</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | <p>of watercourses; in other words, the company complied with the Forestry Operations Manual and the Forest Management Practices Regulations and other management instructions.</p> <ul style="list-style-type: none"> <li>c. In terms of the total area of the consolidated UMF (220844.56 ha), the degraded area in the PCs intervened in the 2020 and 2021 harvest represents 0.03% and 0.16% of the total area of the UMF, respectively, which is an extremely low level of impact.</li> <li>d. In 2020 harvest, a total of 22782 linear meters of secondary forest roads were built, affecting an area of 29.43 ha of forest in PC17. Also, 12300 linear meters of main road were built, affecting 28 ha of forest in PC18.</li> <li>e. In 2021 harvest, a total of 67860 linear meters of secondary forest roads were built, affecting an area of 89.99 ha of forest in PC18.</li> <li>f. There were no reports of watercourses being altered by road construction. The bridges where debris entered have been cleaned.</li> <li>g. No fuel or lubricant spills have been detected.</li> <li>h. The heavy machinery has been in good condition, except for some damage that required specialized personnel and equipment. There have been no fuel spills during maintenance or refueling.</li> </ul> <p>The number of patrols carried out in 2020 within and on the boundaries of the forest management unit has been 72 (44 rivers and 28 land), covering a total of 1505.63 km (1315.4 km by river and 190.23 km by land) with a total of 0 invasions reported. Five signs were erected in the Caldero sector to promote forest conservation and prohibit unauthorized entry.</p> <p>The number of patrols carried out in 2021 within and on the boundaries of the forest management unit has been 73 (52 rivers and 21 land), covering a total of 1072.72 km (843.38 km by river and 229.34 km by land) with a total of 1 invasion reported. 75 signs were erected in roads, camps, lookout posts, etc. to promote forest conservation and prohibit unauthorized entry.</p> <p>The monitoring seeks to infer the quality of MADERACRE SAC operations based on the level of forest degradation and deforestation impacts they cause. Degraded areas are generated by main and secondary roads, are areas where forest cover is lost and its recovery to the initial state will be slower compared to what happens in the clearings generated by the fall of a tree or by the dragging of shafts or logs where the impact is defined as degradation, which is defined as the focused disturbance of a specific area of forest. In both cases, these impacts are positive in terms of boosting forest regeneration, since they provide environments with more light and more free space in the basal area (carrying capacity), which favors the establishment and development of the natural regeneration of timber forest species.</p> |
| <b>Verifiable means</b> | <p>Biodiversity support &gt; 2020 &gt; Patrullaje &gt; Plan_Custodia_2020<br/> Biodiversity support &gt; 2021 &gt; Patrullaje &gt; Plan_Custodia_CMRA_2021<br/> Biodiversity support &gt; 2020 &gt; Patrullaje &gt; Inftecnico_001_2022_Custodia_Vigilancia<br/> Biodiversity support &gt; 2021 &gt; Patrullaje &gt; Inftecnico_006_2022_Custodia_Vigilancia<br/> Biodiversity support &gt; 2020 &gt; Paisaje &gt; Informe_2020_MOF<br/> Biodiversity support &gt; 2021 &gt; Paisaje &gt; Inftecnico_001_2022_CCR_MOF</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Change in Biodiversity  | 226 species inventoried with timber potential maintained over time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                             |               |                                                                               |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------|
| Monitored Change        | <p>Sustainable forest management (FSC certification and Chain of Custody (CoC) certification):</p> <p>MADERACRE SAC executes its silviculture activities with reduced impact selective harvesting methods, which implies that only some trees of some species with commercial potential are felled within a cutting cycle and under silvicultural parameters such as diameter at breast height (DBH), harvesting intensity (IC) and the proportion of seed trees that seek to guarantee a sustainable harvest over time, ensuring future harvests, but above all that the species continue to fulfill their ecological roles in the forest (seed production, food for other species, symbiotic relationships, etc.). In addition to this, operations must be carried out with a view to minimizing impacts on the forest (water, soil, biodiversity) and on the health of employees.</p> <p>In this way MADERACRE SAC, complies with the Principles and Criteria established by the Forest Stewardship Council (FSC) whose purpose is to evaluate the environmental, economic, and social performance of the proponent's forest management. For this purpose, it has approved the evaluation and annual audits carried out by an independent certifier (NEPCon).</p> |                                                                             |               |                                                                               |
| Justification of Change | Management Document and Evaluation Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                             |               |                                                                               |
| Description             | Activities and tasks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Indicator                                                                   | Year 2020     | Year 2021                                                                     |
|                         | Forestry Census                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Census area (ha)                                                            | Not performed | 10741,19 (4)                                                                  |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Number of species counted (unit)                                            | Not performed | 30 (4)                                                                        |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Number of trees surveyed (unit)                                             | Not performed | 28913 (4)                                                                     |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Number of harvestable trees (tree/ha)                                       | Not performed | 2,31 (11)                                                                     |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Census commercial volume (m3/ha)                                            | Not performed | 14,253 (11)                                                                   |
|                         | Silvicultural Monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Natural Regeneration Abundance of species of interest (tree/ha)             | Not performed | 632,91(9)                                                                     |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Diametric growth of the forest (cm/year)                                    | Not performed | 0,73 (10)                                                                     |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Abundance-based Forest dynamics (sum of mortality and recruitment) (ind/ha) | Not performed | PPM: 011 Mortality:39 Recruitment:7 PPM: 012 Mortality: 37 Recruitment: 0 (8) |
|                         | Custody and surveillance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Length of opened and/or maintained boundaries (km)                          | 190,23 (6)    | 229,34 (7)                                                                    |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Distance covered by the patrol (km)                                         | 1505,63 (6)   | 1072,72 (7)                                                                   |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Invasions per year (N°)                                                     | 0 (6)         | 1 (7)                                                                         |
|                         | Environment monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Affected watercourses (N°)                                                  | 0 (6)         | 0 (7)                                                                         |
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Area degraded annually by forestry operations (ha/yr)                       | 61,72 (2.1)   | 357,36 (2.2)                                                                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Animals dead or affected (N°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 (3)               | 0 (4)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Level of annual UMF degradation (%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0,03 (2.2)          | 0,16 (2.1)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MF FSC annual audit approved (N°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 (1.1)             | 1 (1.2)       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Percentage of approval of monitoring quality (%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | It was not foreseen | Not performed |
| <p>Forestry operations under the reduced impact logging framework are important because they allow the extraction of forest resources in a sustainable and responsible manner, minimizing negative impacts on the ecosystem and ensuring the conservation of biodiversity. These practices seek to maximize the efficiency of extraction processes and minimize soil disturbance, reduce the felling of trees of high ecological value, and conserve natural forests.</p> <p>According to the MADERACRE Consolidated Forestry Operations Manual (5), environmental impacts can be mitigated through two types of measures: preventive and corrective.</p> <p>Preventive measures can be limiting the size of stockyards or directing the fall of trees, to avoid or reduce damage before it occurs. While corrective measures can be applied after damage has already occurred.</p> <p>Good management practices, such as the selection of seed trees, remnant trees, and trees to be cut by means of a direct georeferencing census, favor the natural regeneration of the forest.</p> <p>In addition, the protection and surveillance outlined in “Man.Oper.For. CMRA”, with checkpoints and border patrols, help prevent illegal logging activities within the concession.</p> <p>Based on “Inftecnico_001_2022_Custodia_Vigilancia”, the distance covered by patrolling (1505.63 km), encroachment per year (0), watercourses affected (0), area degraded annually by forestry operations (61.72 ha/year) and the level of annual UMF degradation (0.03%) ensure a net positive impact on biodiversity and ensure sustainable forest management.</p> <p>For the year 2021, Based on “Inftecnico_006_2022_Custodia_Vigilancia”. The distance covered by the patrol 1072.72 km with a total of 1 reported affectation by illegal logging of 2 trees, poaching and collection of brazilian nuts in the southern sector of PC 19 whose actions were reported, and corrective measures were taken to ensure the custody of the UMF in that sector. The activities did not cause deforestation or the permanent establishment of illegal activities.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |               |
| Verifiable means                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (1.1) Biodiversity support > 2020 > Paisaje >FSC_FM_audit_21_SPA<br>(1.2) FSC_FM_reassessment_22_SPA<br>(2.1) Biodiversity support > 2020 > Paisaje >Informe_2020_MOF<br>(2.2) Inftecnico_001_2022_CCR_MOF<br>(3) Biodiversity support > 2020 > Flora >Reglam.Oper.MF_CMRA_2020<br>(4) PO_CMRA_2021_2022<br>(5) Biodiversity support > 2020 > Agua > Man.Oper.For. CMRA<br>(6) Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020<br>(7) Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021<br>(8) Biodiversity support > 2021 > Flora > Inf.técnico_005_2022_PPM<br>(9) Biodiversity support > 2021 > Flora > Inf.técnico_002_2022_RN<br>(10) Biodiversity support > 2021 > Flora > Inf.técnico_004_2022_AP<br>(11) Biodiversity support > 2021 > Flora > Informe_ejecución_PO_PC18 |                     |               |

### 5.1.2 Mitigation Actions (VCS, 3.19; CCB, B2.3)

**HCV maintenance measures.** The HCVs identified in the project design are the umbrella species and the project area itself with connections to the Alto Purus National Park and the Madre de Dios Territorial Reserve.

The following table shows the activities or measures determined in the PD for HCV maintenance.

**Table 5.2. Activities and measures determined in the PD for HCV maintenance**

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>High Conservation Value-1</b>  | Areas that contain significant concentrations of biodiversity values at the global, regional, or national level. This is due to the fact that endangered species occur in the UMF and although there are Natural Protected Areas in the region that are home to these species, they are not efficiently managed, which puts their territory at risk.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>High Conservation Value -2</b> | "Forested areas with large landscape-level forests that are globally, regionally, or nationally important." This is because the size of the UMF allows for the maintenance and completion of life cycles of populations of flora and fauna species.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>High Conservation Value -4</b> | "Forest areas that provide basic ecosystem services in critical situations. This is due to the fact that within the UMF there are springs and watercourses that are important for the water network of the Iñapari and Iberia district.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Measures</b>                   | Maintain flora species<br>Maintain fauna species<br>Maintain Conservation Areas<br>Maintain Landscape Integrity<br>Maintain Water Quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Fauna</b>                      | Fauna maintenance:<br><ol style="list-style-type: none"> <li>1. Prohibit the hunting of species of fauna within the concession.</li> <li>2. Identification and protection of sites of importance for wildlife: <ol style="list-style-type: none"> <li>a. Cochas</li> <li>b. Pool in dry pipes</li> <li>c. Aguajales</li> <li>d. Bañeros</li> <li>e. Clay licks</li> <li>f. Water eyes</li> <li>g. Burrows and nests in trees and on the ground</li> </ol> </li> <li>3. Control and surveillance system for poaching - compliance with hunting prohibition.</li> <li>4. Annual monitoring of species of importance and that are indicators of the health of the forest.</li> <li>5. Monitoring of species population density.</li> </ol> |
| <b>Flora</b>                      | Flora maintenance<br>Evaluations to define the natural state of the regeneration.<br>Measurement of growth of each species.<br>Proposal of adjustment measures: DBH and IC (every 5 years).<br>Define silvicultural treatments by species<br>Control and surveillance system to avoid illegal logging and invasions.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UMF</b>                        | Maintenance of defined conservation areas in UMF s<br><ol style="list-style-type: none"> <li>1. Appropriate use compatible with the conservation of the area (tourism, non-timber, etc.)</li> <li>2. Prohibit hunting of wildlife.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                            |                                                                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | 3. Signal conservation areas with the use of pedestrian trails and signs.<br>4. Surveillance system for accesses and limits of the conservation area.                                                              |
| <b>Landscape</b>           | Maintain the integrity of the landscape:<br>1. UMF access and boundary surveillance system.<br>2. Reduced impact harvesting system.                                                                                |
| <b>Water</b>               | Water quality maintenance:<br>1. Establish 25 m fiscal strips on each side of rivers or permanent watercourses or open streams.<br>2. Identify water sources so that they are not affected by forestry operations. |
| <b>Verifications means</b> | Supporting information is found in Table 5.3. for each of the actions for the maintenance and conservation of committed HCVs 2020- 2021<br>Biodiversity support.                                                   |

The table presented shows the actions for the maintenance and conservation of the high conservation values committed in the PD. However, due to the COVID-19 pandemic in 2020, some of these actions were not possible. In addition, many of the awareness raising and sensitization actions, as well as research activities, had to be postponed due to the pandemic. Despite these difficulties, significant efforts were made to ensure the protection and conservation of high conservation values. Cooperation and teamwork were key to maintaining progress in the conservation of these important values. However, during the year 2021, in order to establish HCV sites, which are to be exempted from logging, MADERACRE SAC conducted the annual wildlife survey in already harvested logging plots.

In 2021, the "Study on the health of forest ecosystems under management based on the composition of birds in forest concessions in Tahuamanu - Madre de Dios" was carried out in which the bird community was evaluated with a total of 15 points in each of the 5 scenarios delimited in the methodology. The scenario with the highest diversity is 1, which corresponds to Forest within Forest Concessions with FSC certification (Angulo, 2022).

In 2021, a Wildlife Assessment was carried out in PC 17 of the consolidated MADERACRE SAC. The company conducts an annual study of wildlife in cutting plots already harvested, since it is necessary to know the degree of impact that harvesting activities (construction of camps, roads, bridges, logging, dragging, etc.) would be causing to wildlife populations and their habitats. Among the objectives are: the evaluation and registration of wildlife in PC 17 of the Consolidated MADERACRE SAC; identification of the presence of umbrella species identified as a priority for monitoring because they are indicators of the health of Amazonian ecosystems; and verification of the conservation status of wildlife present in the UMF according to national and international legislation (CITES, UINC, DS-004-2014-MINAGRI).

As well as studies on wild flora such as:

- Forest dynamics in the forest of MADERACRE consolidated (PPM 011 and 012).
- Comparative Study of the Natural Regeneration of 30 forest species under management in cutting plot N°11 of the MADERACRE forest management unit.

- Diametric growth rate of timber species in the MADERACRE SAC Forestry Concession.

In 2021, changes in forest structure and composition were recorded and measured in PPM 011 and 012 of the consolidated MADERACRE after 3 years of implementation and first evaluation. The dynamics of the forest were also evaluated, with emphasis on the species of priority interest: growth rate, survival, and recruitment. (Inf.técnico\_005\_2022\_PPM) The methodology applied was the one developed in the instruction manual “Instalacion\_evaluacion\_Parcela\_Permanente\_Monitoreo” developed by MADERACRE SAC.

In the 2020 harvest, the Forest Management Operation monitored the high conservation values (HCVs) in PC 17, concluding that there was no alteration of the HCVs during logging, hauling and transport (Informe\_2020\_MOF). Forestry operations during the 2020-2021 harvest were carried out following the guidelines of the Forest Management Plan, Operation Plan and in full compliance with current forestry legislation and FSC's responsible forest management principles and criteria. In the 2021 a total of 19 HCV sites were identified, geo-referenced and marked throughout PC 19 during the forestry census, which will provide adequate and timely information to prevent their alteration during logging. During the harvesting stage, the HCVs located in PC 17 for 2020, and in PC 14 and 18 for 2021, were marked on the harvesting maps where each HCV has an intangible buffer area of 20m in diameter, whose purpose is their protection to prevent damage and/or alterations. The results of the studies of diametric growth, natural regeneration in PC 11 and the evaluation of Permanent Monitoring Plots in the year 2021 allow making decisions for the silvicultural treatments applied for forest harvesting in the UMF.

**Table 5.3. Actions for the maintenance and conservation of committed HCVs 2020- 2021**

| Resources: Fauna |                                                                                                                                                                                                                                         |                                                                                                                         |                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #                | Actions for resource maintenance (*)                                                                                                                                                                                                    | Year 2020                                                                                                               | Verifiable Means (VM) // Verifiable Routes (VR) 2020                                                                                                                                                      | Year 2021 | Verifiable Means (VM) // Verifiable Routes (VR) 2021 <sup>73</sup>                                                                                                                                                                                                                             |
| 1                | Identification and protection of HCVs during the development of the Commercial Timber Census:<br>-Cochas<br>-Pool in dry pipes<br>-Aguajales<br>-Bañeros<br>-Clay licks<br>-Water eyes<br>-Burrows and nests in trees and on the ground | Harvesting was carried out at PC 17, the protection of HCVs was established in harvesting map to prevent being altered. | <b>VM//VR (01)</b><br>• MapaBase_PO2019_PC17_MADERACRE<br>• Biodiversity support > 2020 > Flora                                                                                                           | PC 19     | <b>VM//VR (01)</b><br>• Biodiversity support > 2021 > Conservacion<br>Reporte_006_2021_Ident._señal.<br>AVC_PC_19<br><b>VM//VR (02)</b><br>• Biodiversity support > 2021 > Flora > Mapa Base_PC18_Reformulado<br><b>VM//VR (03)</b><br>• Biodiversity support > 2021 > Flora > Mapa_base_PCA14 |
| 2                | Poaching control and surveillance system - enforcement of hunting bans                                                                                                                                                                  | 2                                                                                                                       | <b>VM//VR (01)</b><br>• Plan_Custodia_2020<br>• Biodiversity support > 2020 > Patrullaje<br><b>VM//VR (02)</b><br>• Inftecnico_001_2022_Custodia_Vigilancia<br>• Biodiversity support > 2020 > Patrullaje | 2         | <b>VM//VR (01)</b><br>• Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021<br><b>VM//VR (02)</b><br>• Biodiversity support > 2021 > Patrullaje > Inftecnico_006_2022_Custodia_Vigilancia                                                                                       |
| 3                | Annual monitoring of species of                                                                                                                                                                                                         | Not performed                                                                                                           | Due to the COVID-19 pandemic in 2020, these actions were precluded from being carried out.                                                                                                                | 3         | <b>VM//VR (01)</b><br>• Biodiversity support > 2021 > Fauna > Inftecnico_003_2022_FS                                                                                                                                                                                                           |

<sup>73</sup> Appendix 5. Biodiversity Support

|                           |                                                                                |               |                                                                                                              |   |                                                                                                                                                                                                       |
|---------------------------|--------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | importance-forest health status.                                               |               |                                                                                                              |   | <b>VM/VR (02)</b><br>Estudio_Aves_CMRA_FAngulo<br>• Biodiversity support > 2021 > Fauna > Estudio_Aves_CMRA_FAngulo<br><b>VM/VR (03)</b><br>• Biodiversity support > 2021 > Fauna > Inf_Puentes_dosel |
| 4                         | Five-yearly monitoring of species population density.                          | Not performed | Due to the COVID-19 pandemic in 2020, these actions were precluded from being carried out.                   | 1 | <b>VM/VR (01)</b><br>• Biodiversity support > 2021 > Fauna > Estudio_Aves_CMRA_FAngulo                                                                                                                |
| <b>Flora Resource</b>     |                                                                                |               |                                                                                                              |   |                                                                                                                                                                                                       |
| 1                         | Assessments to define the natural state of regeneration                        | Not performed | Due to the COVID-19 pandemic in 2020, these actions were precluded from being carried out.                   | 1 | <b>VM/VR (01)</b><br>• Biodiversity support > 2021 > Flora > Inf.técnico_002_2022_RN                                                                                                                  |
| 2                         | Measurement of growth of each species                                          | Not performed | Due to the COVID-19 pandemic in 2020, these actions were precluded from being carried out.                   | 1 | <b>VM/VR (01)</b><br>• Biodiversity support > 2021 > Flora > Inf.técnico_004_2022_AP                                                                                                                  |
| 3                         | Proposal of silvicultural adjustment measures: CC, DBH and IC (every 5 years). | 1             | <b>VM/VR (01)</b><br>• Plan Silvicultural MRA 2020<br>• Biodiversity support > 2020 > Flora                  | 1 | <b>VM/VR (01)</b><br>• Biodiversity support > 2020 > Flora > Plan Silvicultural MRA 2020                                                                                                              |
| 4                         | Define silvicultural treatments by species                                     | 1             | <b>VM/VR (01)</b><br>• Plan Silvicultural MRA 2020<br>• Biodiversity support > 2020 > Flora                  | 1 | <b>VM/VR (01)</b><br>• Biodiversity support > 2020 > Flora > Plan Silvicultural MRA 2020                                                                                                              |
| 5                         | Control and surveillance system to prevent illegal logging and encroachments   | 1             | <b>VM/VR (01)</b><br>• Inftecnico_001_2022_Custodia_Vigilancia<br>• Biodiversity support > 2020 > Patrullaje | 1 | <b>VM/VR (01)</b><br>• Biodiversity support > 2021 > Patrullaje > Inftecnico_006_2022_Custodia_Vigilancia                                                                                             |
| <b>Conservation Areas</b> |                                                                                |               |                                                                                                              |   |                                                                                                                                                                                                       |
| 1                         | Exclude conservation                                                           | -             | It did not adjoin a conservation area                                                                        | 1 | <b>VM/VR (01)</b><br>• Biodiversity support > Otros_Años >                                                                                                                                            |

|                            |                                                                                                           |   |                                                                                                               |   |                                                                                                                            |
|----------------------------|-----------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------|
|                            | areas from forest extraction. Use the area in a way that is compatible with the conservation of the area. |   |                                                                                                               |   | PGMF CMRA Feb 2019_uv_spr<br>(Details: Pág. 20 Section “Áreas de Conservación (AC) definidas en el Consolidado MADERACRE”) |
| 2                          | Prohibit the hunting of wildlife species inside the UMF.                                                  | 1 | <b>VM//VR (01)</b><br>• Plan Silvicultural MRA 2020<br>• Biodiversity support > 2020 > Flora                  | 1 | <b>VM//VR (01)</b><br>• Biodiversity support > 2020 > Flora > Plan Silvicultural MRA 2020                                  |
| 3                          | Delimit and signpost conservation areas with the use of pedestrian paths and informative signs.           | - | The areas harvested in 2020 did not adjoin AC.                                                                | 1 | <b>VM//VR (01)</b><br>• Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021                                 |
| 4                          | Establish an adequate surveillance system for the accesses and boundaries of conservation areas           | 1 | <b>VM//VR (01)</b><br>• Plan Silvicultural MRA 2020<br>• Biodiversity support > 2020 > Flora                  | 1 | <b>VM//VR (01)</b><br>• Biodiversity support > 2020 > Flora > Plan Silvicultural MRA 2020                                  |
| <b>Landscape Integrity</b> |                                                                                                           |   |                                                                                                               |   |                                                                                                                            |
| 1                          | Establish an adequate system of control and surveillance of the accesses and boundaries of the UMF.       | 1 | <b>VM//VR (01)</b><br>• Inftecnico_001_2022_Custodia_Vigilancia<br>• Biodiversity support > 2020 > Patrullaje | 1 | <b>VM//VR (01)</b><br>• Biodiversity support > 2021 > Patrullaje > Inftecnico_006_2022_Custodia_Vigilancia                 |

|               |                                                                                                            |       |                                                                                                                                                                          |                |                                                                                                                                                                                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2             | Implement a reduced impact leverage (AIR) system.                                                          | 1     | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>• Man.Oper.For. CMRA</li> <li>• Biodiversity support &gt; 2020 &gt; Agua</li> </ul>                            | 1              | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>• Biodiversity support &gt; 2020 &gt; Agua &gt; Man.Oper.For. CMRA</li> </ul>                                                                                                                                                |
| Water Quality |                                                                                                            |       |                                                                                                                                                                          |                |                                                                                                                                                                                                                                                                                        |
| 1             | Establish an adequate system of control and surveillance of the accesses and boundaries of the UMF.        | 1     | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>• Inftecnico_001_2022_Custodia_Vigilancia</li> <li>• Biodiversity support &gt; 2020 &gt; Patrullaje</li> </ul> | 1              | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>• Biodiversity support &gt; 2021 &gt; Patrullaje &gt; Inftecnico_006_2022_Custodia_Vigilancia</li> </ul>                                                                                                                     |
| 2             | Establish fiscal strips in open rivers and streams of up to 25 meters on each side.                        | PC 17 | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>• MapaBase_PO2019_PC17_MADERACRE</li> <li>• Biodiversity support &gt; 2020 &gt; Flora</li> </ul>               | PC 14<br>PC 18 | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>- Biodiversity support &gt; 2021 &gt; Flora &gt; Mapa Base_PC18_Reformulado</li> </ul> <b>VM//VR (02)</b> <ul style="list-style-type: none"> <li>• Biodiversity support &gt; 2021 &gt; Flora &gt; Mapa_base_PCA14</li> </ul> |
| 3             | Implement a reduced impact leverage (AIR) system.                                                          | 1     | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>• Man.Oper.For. CMRA</li> <li>• Biodiversity support &gt; 2020 &gt; Agua</li> </ul>                            | 1              | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>• Biodiversity support &gt; 2020 &gt; Agua &gt; Man.Oper.For. CMRA</li> </ul>                                                                                                                                                |
| 4             | Identify and mark water sources (ojos de agua) to prevent them from being affected by forestry operations. | PC 17 | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>• MapaBase_PO2019_PC17_MADERACRE</li> <li>• Biodiversity support &gt; 2020 &gt; Flora</li> </ul>               | PC 14<br>PC 18 | <b>VM//VR (01)</b> <ul style="list-style-type: none"> <li>Biodiversity support &gt; 2021 &gt; Flora &gt; Mapa Base_PC18_Reformulado</li> </ul> <b>VM//VR (02)</b> <ul style="list-style-type: none"> <li>• Biodiversity support &gt; 2021 &gt; Flora &gt; Mapa_base_PCA14</li> </ul>   |

(\*) View "Biodiversity" Support File. *Biodiversity support*

As mitigation actions, a silvicultural plan was followed based on information from baseline studies carried out by the company, such as the 2005 Exploratory Inventory, the 2005 Diagnostic Sampling and the 2011 Natural Regeneration Assessment. This plan presents the strategy to ensure the regeneration and recovery of the populations of timber species harvested during the implementation of the PGMF and the POs. It has a five-year scope (2020-2029) and sets out guidelines that will be progressively refined based on the results of assessments and monitoring as part of the adaptive forest management being applied in the UMF.

In order to guarantee the execution of the Silvicultural Plan, as well as the monitoring of the management system in MADERACRE Consolidated, the company has developed a series of internal tools that define the instructions for the implementation of silvicultural work and monitoring, such is the case of:

- Guide for monitoring the growth of forest species of interest from the installation of a system of "Plot Trees".
- Guide for monitoring the dynamics and structure of the forest from the installation of Permanent Monitoring Plots.
- Guide for the Evaluation of Natural Regeneration
- Methodological Guide for the enrichment of the forest from the installation of forest seedlings.

The silvicultural activities included in this plan comprise two groups of actions; in principle, continuous sampling, and monitoring actions, which provide a silvicultural information base, and concrete actions to influence forest regeneration. The details according to objective, activity, sub-activity, execution date and document supporting the verification can be found in the Proposed Activities (point 8) of the January 2020 "Plan Silvicultural MRA 2020". View "Biodiversity" Support File

According to "Plan Silvicultural MRA 2020"<sup>74</sup> the following actions and sub-actions were defined for 2020 and 2021. The other years (2022 to 2029) are detailed in the Schedule of Activities (point 9) of "Plan Silvicultural MRA 2020" of January 2020. View "Biodiversity" Support File.

**Table 5.4. Actions and sub-actions of the Silvicultural Plan Timeline**

| Action                                          | Sub-Action            | 2020 | 2021 |
|-------------------------------------------------|-----------------------|------|------|
| <b>Knowledge of timber production potential</b> | Exploratory Inventory | -    | -    |
| <b>Knowledge of the state</b>                   | Diagnostic Sampling   | -    | -    |

<sup>74</sup> Biodiversity support > 2020 > Agua > Man.Oper.For. CMRA

|                                                  |                                     |   |                         |
|--------------------------------------------------|-------------------------------------|---|-------------------------|
| <b>of natural regeneration</b>                   |                                     |   |                         |
| <b>Dendrological corroboration</b>               | Collections and Herbarium           | - | -                       |
| <b>Collection of critical information</b>        | CFA Inventory                       | - | PC 19 CMRA*             |
|                                                  | Evaluation of the Natural Reg.      | - | PC 11 CMRA              |
| <b>Growth rate study</b>                         | Establishment of plot trees (AP)    | - | PC 11,12 y 13 CMRA      |
| <b>Forest dynamics and enrichment monitoring</b> | Establishment and evaluation of PPM | - | PC 11; PPM 11 y 12 CMRA |
| <b>Silvicultural treatments</b>                  | Liana Cutting                       | - | PC 19 CMRA              |

\*CMRA: Consolidado MADERACRE

In summary of Table N°5.3 of actions for the maintenance and conservation of the HCVs committed 2020- 2021, we can highlight that in terms of fauna maintenance, an adequate system of control and surveillance of access and boundaries of the UMF was established to prevent poaching. In terms of flora maintenance, an adequate control and surveillance system was established for UMF accesses and boundaries to prevent illegal logging and encroachment with the consequent change in land use that can lead to the alteration and fragmentation of habitats. In terms of flora and fauna maintenance, evaluation and monitoring activities were resumed by 2021. In the conservation areas, hunting of fauna species within the UMF was prohibited and an adequate surveillance system was established for the access and boundaries of the conservation areas. The integrity of the landscape and water quality was safeguarded through an adequate system of surveillance of access and boundaries of the UMF and the reduced impact harvesting system.

In addition, the following documents were followed as basic guidelines for operations: "PGMF CMRA Feb 2019\_uv\_spr", "Man.Oper.For. CMRA " and "Plan Silvicultural MRA 2020".

### 5.1.3 Net Positive Biodiversity Impacts (CCB, B2.2, GL1.4)

As mentioned in the previous items (5.1.1. and 5.1.2), all project actions lead to positive impacts to biodiversity, the negative impacts seen in the PD without project (deforestation and land use change) have been counteracted by project actions.

The project activities contributing to the net positive impacts of the project for this period on biodiversity are as follows: Implementation of UMF Integral Protection Plan.

- Implement reduced impact harvesting techniques to ensure a healthy wild population.
- Participate in dialogue and management spaces of the PNAP and the Madre de Dios Territorial Reserve, in the search for strategic allies for conservation.
- Promote activities with entities whose goals are addressed to protect emblematic fauna and flora species with 1% of annual project incomes<sup>75</sup>

<sup>75</sup> Social evidence is displayed in the drive: COMMUNITY SUPPORT

#### A. Implementation of UMF Integral Protection Plan<sup>76</sup>

The Integrated Protection Plan in UMF is a key strategy to ensure the conservation of the high conservation values in the area. During the monitoring period, patrols were carried out in the area and it was found that there were no illegal or harmful activities that could affect biodiversity, such as poaching or extraction of endangered species. As a result, no specific persuasive measures had to be taken to control the situation. In addition, signs in the forest areas were kept clear and visible, which has deterred potential illegal invaders and helped to easily identify the protected areas. This period has also served to sensitize and raise awareness among the local community about their role in protecting the environment.

The expected deforestation in the project area, according to the beta regression for 2020, is 909.45 ha. and 983.61 ha. for 2021, (based on Geobosques data). During this period, the entire area has been covered and there is no deforestation within the area, as can be seen. Therefore, it can be said that the biodiversity of the entire project area, which would have been lost due to deforestation without the project, has been maintained and protected. These are not only forested areas, but also habitat for forest species. Biodiversity is essential for the functioning and balance of ecosystems and is a key factor for the survival of humanity. The conservation of biodiversity in its different components is vital. Genetic diversity is important because it represents the basis of biological diversity and is fundamental for the adaptation of species to environmental changes; and the preservation of genetic diversity is essential to maintain the health and productivity of populations and to ensure the long-term sustainability of ecosystems.

Species are important for the maintenance of biogeochemical cycles and for the control of populations of other living beings. The conservation of ecosystem diversity is essential to ensure the long-term sustainability of ecosystems. Biodiversity at the landscape level is important because it allows the integration of different types of habitats and ecosystems in the same area, which contributes to biological diversity and the long-term sustainability of ecosystems. Biodiversity conservation at the landscape level is essential to ensure ecological connectivity and to ensure the survival of species over time.

#### B. Implement reduced impact logging techniques to ensure a healthy wild population<sup>77</sup>

Forest harvesting is a complex activity, involving a variety of technical and scientific aspects, as well as multiple operational actions, which together require a thorough planning process to achieve the multiple objectives of forest management. The implementation of reduced impact logging practices<sup>78</sup> ensures that natural resources are used in a responsible and sustainable manner, without endangering the existence of species and their habitat. The activities of forest harvesting are sustainable over time.

Among the species with high conservation values are species of the Order Primate (*Alouatta seniculus*, *Ateles Chamek*), species of the family Felidae (*Panthera onca*, *Puma concolor*), Tapiridae (*Tapirus terrestris*) and Accipitridae (*Harpia Harpyja*), of the family Cracidae (*Pipile cumanensis*, *Penelope jacquacu* and *Mitu tuberosa*), of the family Psittacidae (*Celus* sp.) and the

<sup>76</sup> Biodiversity support > 2021 > Patrullaje > Plan\_Custodia\_CMRA\_2021 / Biodiversity support > 2020 > Patrullaje > Plan\_Custodia\_2020

<sup>77</sup> Evidence for the "Implement reduced impact logging techniques to ensure a healthy wild population" is in the folder Appendix 10

<sup>78</sup> Biodiversity Support > 2020 > Flora > Reglam.Oper.MF\_CMRA\_2020

family Testudinidae (*Geochelone denticulata*). The conservation of these species is essential to maintain biodiversity and ecological balance in the region. During this period, the presence of these species is confirmed by the entries during patrols, but it has not been possible to carry out the corresponding monitoring in 2020 due to the restrictions derived from the covid19 pandemic. For the year 2021, wildlife assessment and monitoring activities were resumed. As shown in Table N°5.3

The “Man.Oper.For. CMRA <sup>79</sup>” expresses the following about the maintenance of biodiversity in the context of reduced impact logging. In terms of reduced impact logging, biodiversity has been maintained during the period, as shown in the indicators presented. By adequately timber harvesting within the permissible limits, the forests regenerate and remain healthy over time. Sustainable forest harvesting must have an integrated approach that seeks to balance timber production with the conservation of forests and their ecosystem services, such as protection against natural disasters, soil conservation, biodiversity, recreational and educational uses, as well as maintaining the provision of water and clean air.

In 2020 harvest, E&M team monitored the high conservation values (HCVs) in PC17, concluding that there was no alteration of the HCVs during logging, hauling and transport (MOF 2020).

In 2021 harvest forestry operations, during the 2020-2021 harvest were carried out following the guidelines of the PGMF, PO and in full compliance with current forestry legislation and the principles and criteria of responsible forest management of the FSC. The silvicultural work outlined in the PO was carried out, as well as forest custody activities, forest monitoring and monitoring of forestry operations in PC18 (Informe\_ejecución\_PO\_PC18<sup>80</sup>).

Harvesting, being an anthropic intervention in the ecosystem, will generate changes in the ecosystem, basically by releasing the carrying capacity by extracting some trees from it, in this sense it is essential to implement a monitoring system capable of having timely and reliable information that allows knowing the dynamics of the forest, providing feedback to the management system and taking the necessary measures in a timely manner. The evaluation of the abundance of natural regeneration, the diametric growth of the forest and the forest dynamics based on abundance is essential to ensure the conservation of forest biodiversity. This assessment provides valuable information on forest health and productivity and allows forest managers to make informed decisions on sustainable timber harvesting.

In the Species and Sustainable Harvesting Rate (SFR) Appendix 6 of “Maderacre FSC FM reassessment 22 SPA”, you can see the details by species.

The abundance of natural regeneration indicates the quantity and quality of seeds and seedlings that are germinating in the forest. This indicator is important because it reflects the capacity of the forest to regenerate itself after harvesting. Diametric forest growth measures the increase in the diameter of trees in the forest. This indicator is important because it reflects the health and productivity of the forest and provides information on the speed at which trees are growing and maturing. Abundance-based on forest dynamics refers to the number and size of trees in the forest. This indicator is important because it provides information on the structure, dynamics and

<sup>79</sup> Biodiversity Support > 2021 > Paisaje > Inftecnico\_001\_2022\_CCR\_MOF

<sup>80</sup> Biodiversity Support > 2021 > Flora > Informe\_ejecución\_PO\_PC18

composition of the forest and allows forest managers to make informed decisions on biodiversity conservation and sustainable timber harvesting.

Compliance with trees harvesting according to their diameter at breast height protects biodiversity because it allows forest managers to preserve mature trees, which are important for biodiversity. These trees provide habitat and food for a wide variety of animal species and are essential to maintaining the long-term health and productivity of the forest.

The results showed to be satisfactory for the health of the forest. To know the quality and impact of forest operations, according to the Monitoring of Forest Operations in the Consolidated MADERACRE<sup>81</sup>, in PC 17, a total of 29,43 ha of degraded area has been generated as a result of forest harvesting operations. In terms of the total area of the consolidated UMF (220844.56 ha), the degraded area in the PCs intervened in the 2020 harvest represents 0.03% of the total area of the UMF, which is an extremely low level of impact.

According to the Monitoring of Forest Operations in the Consolidated MADERACRE, ZAFRA 2021<sup>82</sup>, in PC 14, 18 and 19, a total of 357.88 ha of degraded area has been generated as a result of forest harvesting operations, being this value lower compared to previous years due to the decrease in the magnitude of forest operations for this year. This represents the affectation of 0.16% of the total area of the CMRA, which is an extremely low value.

In the "Comparative study of the natural regeneration of 30 forest species under management in PC 11 of MADERACRE forest management unit" it is observed that the opening of clearings as a result of forestry operations has favored, in general terms, the natural regeneration of timber forest species currently managed in the MADERACRE SAC UMF, which represent the individuals that will not only ensure future harvests but also the maintenance of the ecological roles of these species in the forest. The early natural regeneration (saplings) of the species *Dipteryx micrantha* ("shihuahuaco"), after 9 years of its intervention, has positioned itself well above the evaluation prior to harvesting, increasing its abundance by 301%, this indicator shows the positive response of the species to the changes in the forest caused by logging. In this sense, selective reduced impact logging is an important silvicultural treatment that improves forest conditions for the maintenance of a healthy population of the species even in better conditions compared to a forest without intervention.

The following methodological phases of reduced impact logging in the area are detailed in the "Man.Oper.For. CMRA ":

- Planning phase of the census by direct georeferencing.
- Selection criteria for seed, remnant and cutting trees.
- Harvesting Base Map
- Preliminary schedule of operations
- Contingency and environmental impact mitigation plan.

---

81 Biodiversity Support > 2020 > Paisaje > Informe\_2020\_MOF

82 Biodiversity Support > 2021 > Paisaje > Inftecnico\_001\_2022\_CCR\_MOF

- Non-timber forest products and forest services harvesting.
- Social actions
- Protection and surveillance
- Personnel training
- Forestry Camp
- Harvesting planning by sectorization
- Cutting techniques
- Dragging
- Forest roads
- Storage Yards
- Transportation

C. Participate in dialogue and management spaces of the PNAP and the Madre de Dios Territorial Reserve, in the search for strategic allies for conservation

Dialogue and dissemination of sustainable harvesting projects contribute to the creation of a conservation culture in the local community. Involving local stakeholders in activities related to sustainable forest management and conservation strengthens their commitment to the care and protection of species and their habitats.

The Tripartite Inter-institutional Cooperation Agreement<sup>83</sup> between the head of the Alto Purus National Park, MADERACRE SAC and the wildlife aid Frankfurt Zoological Society Peru, which was signed in August 2020 and is valid for 2 years, generates a broad platform for inter-institutional collaboration that allows for the implementation of coordination mechanisms, and cooperation between the parties, promoting the implementation of activities aimed at strengthening surveillance and control actions in the Tahuamanu River basin, as well as getting involved in natural resource management and environmental education activities in the area of influence of the Alto Purus National Park (PNAP).

As a transversal line of action, a commitment is made to develop the capacities of the personnel involved in the main lines of action, all under the approach of working in coordination with the main objective of conserving the biological diversity of the territory. Among the commitments assumed and that contribute to the net positive impacts of this activity during the 2020-2021 period are:

- Permanently coordinate with the Forest Concessions the execution of activities, programs and environmental projects derived from this Tripartite Agreement.

---

<sup>83</sup> Community support > 2020\_community > Unic metrcis> PIACI > Acuerdo tripartito

- Promote the articulation between the PNAP and the Forest Concessions within the framework of the lines of action of this agreement.
- Jointly carry out educational or dissemination campaigns, according to the possibilities of the parties and within the framework of the objectives of this Agreement.
- Provide timely information on the results obtained by the three institutions parties to this agreement in support of the management of the PNAP.

Means of Verification:

- INFORME N° 012-2020 – MADERACRE SAC. /MECM
- INFORME N° 015-2020 – MADERACRE SAC. /MECM
- INFORME N° 037 - 2020 – MADERACRE SAC. /MECM
- Tripartite inter-institutional cooperation agreement between the head of the Alto Purus National Park, MADERACRE SAC. and the Frankfurt Zoological Society of Peru.

According to the “The Tripartite Inter-Institutional Cooperation Agreement” the commitments of the MADERACRE Forest Concession are:

- a) To participate to the extent of their abilities in the Surveillance and Control activities<sup>84</sup>, Resource Management, and environmental education carried out by PNAP and AVISA SZF PERU in the influence and buffer zone of PNAP according to the strategic objectives considered in its Master Plan.
- b) To strengthen the communication system between park rangers and their custodians to generate precise and timely information on the conditions in the Tahuamanu basin, with the aim of creating a permanent early warning System.
- c) To make their personnel available to participate in joint training sessions on resource monitoring methodologies and surveillance and control strategies, as established in the present Tripartite Agreement.
- d) To actively participate as an accredited member of the Management Committee of the Alto Purus National Park.
- e) To provide technical support to PNAP and its Management Committee for the fulfillment of planned activities in the influence zone of the Alto Purus National Park.
- f) To promote restoration activities and sustainable use of natural resources in the Influence Zone of the Alto Purus National Park and its jurisdictional area in the province of Tahuamanu.

<sup>84</sup> Biodiversity support > 2020 > Patrullaje > Plan\_Custodia\_2020  
 Biodiversity support > 2021 > Patrullaje > Plan\_Custodia\_CMRA\_2021

- g) To strengthen and participate in the training and awareness-raising activities developed by PNAP and AVISA SZF PERU for the populations of the province of Tahuamanu, regarding the importance of conserving the ecosystems of Protected Natural Areas, including the Alto Purus National Park.
- h) To provide facilities to the park ranger personnel of PNAP and AVISA SZF PERU to use the surveillance booths installed in the Tahuamanu basin within the CONCESSION.
- i) To facilitate coordination between institutions and the strategic ally of PNAP for the development of activities within the framework of the Tripartite Agreement's purpose.
- j) To participate in the implementation of the environmental education project for beneficiary educational institutions in the influence zone of PNAP.

In summary, the implementation of actions to achieve the activities proposed in the PD are effective measures to guarantee the conservation of the high conservation values in the region. These actions contribute to the protection of biodiversity and the creation of a conservation culture in the local community.

- D. Promote activities with entities whose goals are addressed to protect emblematic fauna and flora species with 1% of annual project incomes

The agreement of the Tripartite Agreement of Interinstitutional Cooperation between the head of the Alto Purus National Park also involved strengthening the management actions of the PNAP. Resource management: Monitoring and management of taricaya populations in the Tahuamanu River Basin with the participation of representatives of the Alto Purus National Park, representatives of the Frankfurt Zoological Society and representatives of the MADERACRE SAC company.

Representatives of the Frankfurt Zoological Society and representatives of the MADERACRE SAC company have held a series of meetings:

- a) The virtual meeting was held on May 15th, with the participation of the MADERACRE SAC Company, Alto Purus National Park, and the Frankfurt Zoological Society. The main monitoring and management activities for taricaya populations that would be worked on with the involved institutions were proposed. (Informe N° 012-2020 – MADERACRE SAC./MECM).
- b) The virtual meeting was held on May 25th with the participation of MADERACRE SAC Company, Alto Purus National Park, Frankfurt Zoological Society, and CATAHUA Company. • The main activities in which MADERACRE SAC Company would be involved in the monitoring and management of taricaya populations in the Tahuamanu river basin were defined. (Informe N° 015-2020 -MADERACRE SAC./MECM).

#### 5.1.4 High Conservation Values Protected (CCB, B2.4)

Representatives of the Frankfurt Zoological Society and representatives of the MADERACRE SAC company have held a series of meetings:

Species of the Order Primate (*Aloutta seniculus*, *Ateles Chamek*), species of the family Felidae (*Panthera onca*, *Puma concolor*), Tapiridae (*Tapirus terrestris*) and Accipitridae (*Harpia Harpyja*), of the family Cracidae (*Pipile cumanensis*, *Penelope jacquacu* and *Mitu tuberoso*), of the family Psittacidae (*Celeus* sp.) and the family Testudinidae (*Geochelone denticulata*). As well as the total area of the project, which corresponds to 169.956,81 hectares.

The high conservation values determined have not been negatively affected. First, because the project activities compared to a scenario without a project help maintain biodiversity values and second, because the annual impact in terms of area degraded by the implementation of the forest management plan has been minimal, thanks to the implementation of reduced impact logging techniques. This keeps the area environmentally healthy, with a healthy presence of flora and fauna.

The UMF qualifies as a BAVC due to the presence of HCV1, HCV2, and HCV4. These HCVs confer a fairly broad category, which makes it quite complex and highly costly to develop conservation strategies for each species independently. This is not compatible with the scale or intensity of the UMF's management. In this sense, and considering the threats identified towards the HCV, the implementation of measures that allow addressing the conservation attributes requirements in a general way is proposed

There are no reports of third-party entry (unauthorized persons, illegal loggers or invaders) thanks to the implementation of surveillance actions that were maintained during the years 2020 and 2021, even despite the restrictions imposed as prevention mechanisms in the face of the Covid 19 pandemic. There was no deforestation according to portal GeoBosques data; and zero reported invasions, all reported in the successfully implemented integrated Custody and Surveillance system.

#### High Conservation Value 1

High Conservation Values 1 are areas that contain significant concentrations of biodiversity values at the global, regional, or national level (e.g., endemism, endangered species).

The species were considered to be of high conservation value because they have a threatened status according to the Peruvian, IUCN and CITES lists of endangered species. 100% of the project area was considered because the species to be conserved, their habitats and the water network are randomly distributed throughout the UMF and the success of the flora and fauna populations requires the integrity and connectivity of the forest.

Directed and low-impact logging does not adversely affect any HCV, but sustainable harvesting favors the conservation of an almost intact forest cover, while ensuring the conservation of the species with high conservation values; of the Order Primate (*Aloutta seniculus*, *Ateles Chamek*), species of the family Felidae (*Panthera onca*, *Puma concolor*), Tapiridae (*Tapirus terrestris*) and Accipitridae (*Harpia Harpyja*), of the family Cracidae (*Pipile cumanensis*, *Penelope jacquacu* and *Mitu tuberoso*), of the family Psittacidae (*Celeus* sp.) and the family Testudinidae (*Geochelone denticulata*).

## High Conservation Value 2 and 4

High Conservation Values 2 are Forest areas with large landscapes, important at a global, regional or national scale and High Conservation Values 4 are Forest areas that provide basic ecosystem services in critical situations.

The Tahuamanu Amazon REDD Project area has been determined to be of high conservation value due to its ecological and biological importance. This area harbors a high diversity of flora and fauna species. This biodiversity is a valuable source of genetic and ecosystem resources that are essential for the balance and resilience of natural ecosystems. The conservation of this area is also important for maintaining the ecosystem services they provide to humans, such as water purification, plant pollination, and climate regulation. In addition, it is an area of connectivity, avoiding fragmentation in a broad landscape that groups the project area with the Permanent Production Forests, the PNAP, the Madre de Dios Territorial Reserve (PIACI territory) and forests in native communities, forming a biological corridor of more than 4,586,188.66 ha.

The UMF covers an area of approximately 220,000 hectares and is part of the watersheds of the Acre, Tahuamanu, Muimantu, and Manuripe rivers. Although the watersheds encompassed by the UMF are quite large and include parts of some states in Brazil and Bolivia, the presence of important water sources and waterways for the districts of Iñapari and Iberia make responsible management of the UMF important

To maintain the integrity of the landscape, it is necessary to avoid forest fragmentation. In this sense, the measures to consider are:

- Establishing an adequate surveillance system for the access and boundaries of the UMF.
- Implementing a low-impact utilization system.

The monitoring took place within the framework of the guidelines of the Tripartite Interinstitutional Cooperation Agreement between the Alto Purus National Park, the MADERACRE SAC and the Frankfurt Zoological Society of Peru.

To ensure the conservation of the high conservation values in 2020 the following studies were conducted: "Informe\_2020\_MOF", "Man.Oper.For. CMRA " and "Plan Silvicultural MRA 2020".

To ensure the conservation of the high conservation values in 2021 the following studies were conducted: "Estudio\_Aves\_CMRA\_FAngulo", "Inf\_Puentes\_dosel", "Inf. Técnico 001-2022-CCR-MOF", "Inftecnico\_003\_2022\_FS" and "Inf.técnico\_005\_2022\_PPM"

### 5.1.5 Species Used (VCS, 3.19; CCB, B2.5, 2.6)

Not applicable.

### 5.1.6 Invasive Species (VCS, 3.19; CCB, B2.5)

Not applicable.

### 5.1.7 GMO Exclusion (CCB, B2.7)

Not applicable.

### 5.1.8 Inputs Justification (VCS, 3.19; CCB, B2.8)

Not applicable

## 5.2 Offsite Biodiversity Impacts

### 5.2.1 Negative Offsite Biodiversity Impacts (CCB, B3.1) and Mitigation Actions (CCB, B3.2)

Not negative impacts are expected outside of the project area (Leakage and Reference Region).

Within the project area, risk zones have been identified in the leakage belt. Accordingly, communities and population centers have been identified with which to prioritize the implementation of the activities defined in the PD document and thus be more effective in contributing to the reduction of deforestation. The map presented below is a map of risk areas. The determination of risk areas was done by visually identifying areas of higher accumulated deforestation from 2017 to 2021. For this purpose, risk areas with an area of 2562.40 ha were delimited in the project area and deforestation was calculated for the years 2017, 2018, 2019, 2019, 2020 and 2021 and the accumulated deforestation for each of these, using the GeoBosques<sup>85</sup> Shapefile: "Forest Loss 2001 - 2021 (vector)". Finally, the 4 risk areas with the highest forest loss were selected.

From 4 areas defined as risk zones, one of them with the highest accumulated deforestation is Risk Zone 3. This is followed by Risk Zone 4, 2 and 1, in that order. The year with the highest deforestation in the risk zones was in 2017, then 2018, 2021, 2020 and 2019.

---

<sup>85</sup> <https://geobosques.minam.gob.pe/geobosque/view/descargas.php?122345gx345w34gg>

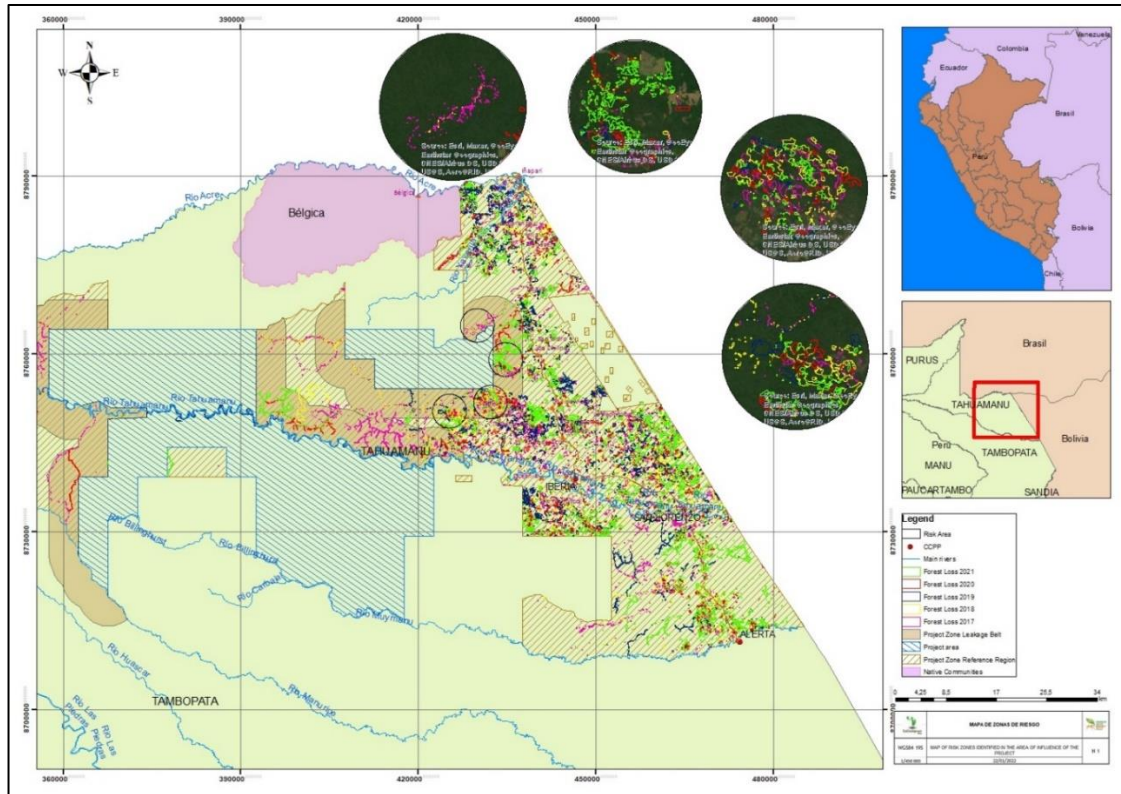


Figure 5.1 risk Zones in the leakage belt

Table 5.5. Deforestation in risk areas<sup>86</sup>

| Risk Area            | 2017   | 2018   | 2019   | 2020   | 2021   | Accumulated forest loss by area |
|----------------------|--------|--------|--------|--------|--------|---------------------------------|
| R1                   | 32,31  | 2,23   | 0      | 0      | 2,68   | 37,22                           |
| R2                   | 46,44  | 6,51   | 49,03  | 99,32  | 233,25 | 433,55                          |
| R3                   | 350,11 | 279,25 | 63,37  | 131,90 | 113,07 | 937,70                          |
| R4                   | 105,06 | 219,67 | 113,90 | 71,05  | 109,62 | 619,84                          |
| Forest loss per year | 534,46 | 507,66 | 225,30 | 302,27 | 458,62 | 2028,31                         |

Note: 04 risk areas of 2562.40 ha each were determined.

Latent negative impacts due to project actions

The project's actions do not foresee negative impacts to biodiversity outside the site; however, leakage defined as probable deforested areas due to the prohibition of entry and logging of commercial forest species in the project area is a latent impact identified in the project design, as well as agricultural expansion due to deforestation and illegal hunting.

<sup>86</sup> Source: Own elaboration

The following tables show the mitigation measures determined for these latent impacts, which will be developed by the project and what has been executed to date for their full implementation.

**Table 5.6. Mitigation measures<sup>87</sup>**

| Negative Offsite Impact                                                                                                                         | Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Increased deforestation pressure due to the expansion of the agricultural and livestock frontier in the areas adjacent to the concession</b> | <p>Initiatives of the population (families and organizations) with environmentally friendly projects that propose a responsible use of the land and reduction of the agricultural frontier (2% annual income of the project).</p> <p>Contribution to the sustainable development of surrounding communities (1% annual income).</p> <p>Dissemination of environmental education to children and adolescents in the surrounding communities (workshops on agricultural management, burn control, agroforestry, etc.).</p> <p>Actions in the period 2020 and 2021</p> <p>Initiatives of the population with environmentally friendly projects that propose a responsible use of the land and reduction of the agricultural frontier (2% annual income of the project).</p> <p>For the year 2021, the determination of risk areas in the leakage belt due to the loss of forest and biodiversity was carried out.</p> <p>De termination of project types:<br/>Work is underway on the Bases for the PPAMA competition.</p> <p>Contribution to the sustainable development of surrounding communities (1% annual income).<br/>Despite not having revenues from the sale of carbon. Activities were carried out in health and education, presented in item 4.</p> <p>Dissemination of environmental education to adolescent children (workshops on agricultural management, burn control, agroforestry, etc.).</p> <p>Actions were presented under item 4 of communities</p> |

| Negative impact outside the PA                                                                                   | Mitigation measure(s)                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Increase in illegal logging high commercial value forest species in the areas adjacent to the concession.</b> | <p>Participation in dialogue spaces for the management and protection of ANPs and the Madre de Dios Territorial Reserve-generation of alliances for protection.</p> <p>Promotion of activities with institutions with ANP and PIACI territory protection objectives (1% of annual income).</p> <p>Actions in the period 2020 and 2021</p> |

<sup>87</sup> Community Support

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Participation in dialogue spaces for the management and protection of ANP and the Madre de Dios Territorial Reserve-generation of alliances for protection.</p> <p>Actions are presented in item 4.3 of communities.</p> <p>Promotion of activities with institutions with the objective of protecting PNAP and PIACI territory (1% of annual income)</p> <p>Actions are presented in item 4.1.2 under Actions for the protection of PIACI territory.</p> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Negative impact outside the PA                                                                        | Mitigation measure(s)                                                                                                               |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Loss of biodiversity due to increased illegal hunting of wildlife in areas adjacent to the concession | Promotion of activities with institutions whose objectives are oriented to the protection of flora and fauna (1% of annual income). |
|                                                                                                       | Acciones en el periodo 2020 y 2021                                                                                                  |
|                                                                                                       | Actions were presented in item 5.3.                                                                                                 |

### 5.2.2 Net Offsite Biodiversity Benefits (VCS, 3.19; CCB, B3.3)

As mentioned, there are no negative impacts outside of the site or the determined project area.

## 5.3 Biodiversity Impact Monitoring

### 5.3.1 Biodiversity Monitoring Plan (CCB, B4.1, B4.2, GL1.4, GL3.4)

#### CUSTODY AND SURVEILLANCE

To maintain the biodiversity, patrols were conducted in MADERACRE concession.

#### Year 2020

The number of patrols carried out in 2020 within and in the limits of the CMRA have been 72 (44 river and 28 land), covering a total of 1505.63 km (1315.4 km via river and 190.23 km via land) with a total of 0 reported invasions, all this shows that the integrated system of Custody and Surveillance implemented has been successful and prevented the incursion of agents causing deforestation, as well as other illegal activities that affect the flora and fauna of the forest. Five signs were set up in PV Caldero sector to promote forest conservation and prohibit unauthorized entry.

#### Year 2021

The number of patrols carried out in 2021 within and in the CMRA boundaries have been 73 (52 fluvial and 21 terrestrial), covering a total of 1072.72 km (843.38 km via river and 229.34 km by

land) with a total of 1 reported impact due to illegal logging of 2 trees, poaching and collection of brazilian nuts in the southern sector of PC 19, whose actions were reported, and corrective measures were taken to ensure the custody of the management unit in that sector (installation of information panels, constant presence of operations and intensified patrols). These activities did not cause deforestation or the permanent establishment of illegal activities. The results show that the integrated Custody and Surveillance system implemented has been successful and prevented the establishment of agents causing deforestation, as well as other illegal activities that affect the forest's wildlife. 75 signs were set up in CMRA to promote forest conservation, generate awareness of the UMF zoning, control zones and operation camps, and encourage the control of the transit of heavy and light land units.

**Table 5.7. Means of verification of the Monitoring Plan for the years 2020 and 2021**

| Bio                   | Activity                                                                                                                                                  | Product                                                                                                        | Actions                  | Means of verification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biodiversity 1</b> | Implementation of UMF's Integral Protection Plan                                                                                                          | Patrolling system operating                                                                                    | Carried out in 5.1.3 (1) | Biodiversity support > 2020 > Patrullaje > Inftecnico_001_2022_Custodia_Vigilancia<br>Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020<br>Biodiversity support > 2021 > Patrullaje > Inftecnico_006_2022_Custodia_Vigilancia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Biodiversity 2</b> | Implement reduced impact harvesting techniques to ensure a healthy wild population.                                                                       | Management plan based on sustainability criteria-FSC and degradation monitoring                                | Carried out in 5.1.3 (2) | Biodiversity support > 2020 > Agua > MapaBase_PO2019_PC17_MADERACRE<br>Biodiversity support > 2020 > Agua > Man.Oper.For. CMRA<br>Biodiversity support > 2021 > Agua > Mapa Base_PC18_Reformulado<br>Biodiversity support > 2021 > Agua > Mapa Base_PCA14<br>Biodiversity support > 2020 > Conservación > MapaDispersión_PO2019_PC17_MADERACRE<br>Biodiversity support > 2020 > Conservación > PGMF CMRA Feb 2019_uv_spr<br>Biodiversity support > 2021 > Conservación > Reporte_006_2021_Ident_señal.<br>AVC_PC_19 Biodiversity support > 2021 > Fauna > Estudio_Aves_CMRA_FAngulo<br>Biodiversity support > 2021 > Fauna > Inftecnico_003_2022_FS<br>Biodiversity support > 2021 > Fauna > Inf_Puentes_dosel<br>Biodiversity support > 2020 > Flora > Plan Silvicultural MRA 2020<br>Biodiversity support > 2021 > Flora > Inf.técnico_002_2022_RN<br>Biodiversity support > 2021 > Flora > Inf.técnico_004_2022_AP<br>Biodiversity support > 2021 > Flora > Inf.técnico_005_2022_PPM<br>Biodiversity support > 2021 > Flora > Informe_ejecución_PO_PC18<br>Biodiversity support > 2021 > Flora > PO_CMRA_2021_2022<br>Biodiversity support > 2020 > Paisaje > Informe_2020_MOF<br>Biodiversity support > 2020 > Paisaje > FSC_FM_audit_21_SPA<br>Biodiversity support > 2021 > Paisaje > Inftecnico_001_2022_CCR_MOF<br>Biodiversity support > 2021 > Paisaje > Maderacre FSC FM reassessment 22 SPA |
| <b>Biodiversity 3</b> | Participate in dialogue and management spaces of the PNAP and the Madre de Dios Territorial Reserve, in the search for strategic allies for conservation. | Spaces with a permanent and active presence of the project                                                     | Carried out in 5.1.3 (3) | 2020_community > Unic metrcis> PIACI > Acuerdo_tripartito<br>2020_community > Unic metrcis> PIACI > informe 012-2020-taricayas_pnap<br>2020_community > Unic metrcis> PIACI > informe 014-2020-PNAP_patrullaje<br>2020_community > Unic metrcis> PIACI > informe 015-2020-taricayas_pnap<br>2020_community > Unic metrcis> PIACI > informe 032-2020-difusion_PIAI<br>2020_community > Unic metrcis> PIACI > informe 037-2020-PNAP_SFZ<br>2021_community > Unic metrcis> PIACI > Acuerdo_tripartito<br>2021_community > Unic metrcis> PIACI > Informe 037-2021-taricaya<br>2021_community > Unic metrcis> PIACI > Informe 034-2021-taricaya<br>2021_community > Unic metrcis> PIACI > Informe 033-2021-taricaya<br>2021_community > Unic metrcis> PIACI > Informe 027-2021-taricaya<br>2021_community > Unic metrcis> PIACI > Informe 018-2021-taricaya                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Biodiversity 4</b> | Promote activities with partners whose goals are focused on protecting emblematic fauna and flora.                                                        | Organizations and activities aligned with the project goals, identified, promoted and cofounded by the project | Carried out in 5.1.3 (4) | 2020_community > Unic metrcis> PIACI > Acuerdo_tripartito<br>2020_community > Unic metrcis> PIACI > informe 012-2020-taricayas_pnap<br>2020_community > Unic metrcis> PIACI > informe 014-2020-PNAP_patrullaje<br>2020_community > Unic metrcis> PIACI > informe 015-2020-taricayas_pnap<br>2020_community > Unic metrcis> PIACI > informe 032-2020-difusion_PIAI<br>2020_community > Unic metrcis> PIACI > informe 037-2020-PNAP_SFZ<br>2021_community > Unic metrcis> PIACI > Acuerdo_tripartito<br>2021_community > Unic metrcis> PIACI > Informe 037-2021-taricaya                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|  |  |  |  |                                                                                                                                                                                                                                                                              |
|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  |  | 2021_community > Unic metrcis> PIACI > Informe 034-2021-taricaya<br>2021_community > Unic metrcis> PIACI > Informe 033-2021-taricaya<br>2021_community > Unic metrcis> PIACI > Informe 027-2021-taricaya<br>2021_community > Unic metrcis> PIACI > Informe 018-2021-taricaya |
|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Table 5.8. goals and indicators**

| Activity                        | Goals                                         | Indicator | Verification means | Responsible                       | Year 2020       | Year 2021                                                                                                                                                                                           |
|---------------------------------|-----------------------------------------------|-----------|--------------------|-----------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Forest census</b>            | Census Area (ha)                              | Ha        | Evaluation report  | Head of Evaluation and Monitoring | It was not done | *Biodiversity support > 2021 > Flora ><br>PO_CMRA_2021_2022 <ul style="list-style-type: none"> <li>• Section 3.1</li> <li>• Section 4.3</li> </ul>                                                  |
|                                 | Number of individuals Censed =                | N         | Evaluation report  | Head of Evaluation and Monitoring | It was not done |                                                                                                                                                                                                     |
|                                 | Number of Species Censed                      | N         | Evaluation report  | Head of Evaluation and Monitoring | It was not done |                                                                                                                                                                                                     |
|                                 | Number of exploitable trees                   | N/ha      | Evaluation report  | Head of Evaluation and Monitoring | It was not done |                                                                                                                                                                                                     |
|                                 | Volume (m3)                                   | M3/ha     | Evaluation report  | Head of Evaluation and Monitoring | It was not done |                                                                                                                                                                                                     |
| <b>Silvicultural monitoring</b> | Forest growth and species to be managed       | m2/ha     | Evaluation report  | Head of Evaluation and Monitoring | It was not done | *Biodiversity support > 2021 > Flora ><br>Inf.técnico_004_2022_AP.                                                                                                                                  |
|                                 | Species abundance (%) of natural regeneration | N/ha      | Evaluation report  | Head of Evaluation and Monitoring | It was not done | *Biodiversity support > 2021 > Flora ><br>Inf.técnico_005_2022_PPM<br>*Biodiversity support > 2021 > Flora ><br>Inf.técnico_002_2022_RN <ul style="list-style-type: none"> <li>• Pág. 18</li> </ul> |
|                                 | Growth Diametric growth of trees              | cm/year   | Evaluation report  | Head of Evaluation and Monitoring | It was not done | * Biodiversity support > 2021 > Flora ><br>Inf.técnico_004_2022_AP <ul style="list-style-type: none"> <li>• Pág. 08</li> </ul>                                                                      |
|                                 | Mortality of individuals in a forest area     | N/ha      | Evaluation report  | Head of Evaluation and Monitoring | It was not done | * Biodiversity support > 2021 > Flora ><br>Inf.técnico_005_2022_PPM <ul style="list-style-type: none"> <li>• PPM 011 cuadro 04.</li> <li>• PPM 012 cuadro 05</li> </ul>                             |

| Activity                                     | Goals                                                                                                                                                     | Indicator   | Verification means                | Responsible                       | Year 2020                                                                                                                                      | Year 2021                                                                                                                                                            |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              | Recruitment of individuals in a forest area                                                                                                               | N/ha        | Evaluation report                 | Head of Evaluation and Monitoring | It was not done                                                                                                                                | * Biodiversity support > 2021 > Flora > Inf.técnico_005_2022_PPM <ul style="list-style-type: none"> <li>• PPM 011 cuadro 04.</li> <li>• PPM 012 cuadro 05</li> </ul> |
| Maintenance of protected and conserved areas | Delimit and mark                                                                                                                                          | km          | Daily log                         | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Patrullaje > Inftecnico_001_2022_Custodia_Vigilancia                                                           | * Biodiversity support > 2021 > Patrullaje > Inftecnico_006_2022_Custodia_Vigilancia CMRA                                                                            |
|                                              | Control and surveillance                                                                                                                                  | N° controls | Daily log                         | Head of Evaluation and Monitoring |                                                                                                                                                |                                                                                                                                                                      |
| Environmental management plan                | Prevention and correction impacts                                                                                                                         | Ha          | Prevention and correction records | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Paisaje > Informe_2020_MOF                                                                                     | * Biodiversity support > 2021 > Paisaje > Inftecnico_001_2022_CCR_MOF                                                                                                |
|                                              | Control and surveillance                                                                                                                                  | N° controls | Control and surveillance records  | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020                                                                                | * Biodiversity support > 2021 > Flora > Plan_Custodia_CMRA_2021                                                                                                      |
|                                              | Participate in dialogue and management spaces of the PNAP and the Madre de Dios Territorial Reserve, in the search for strategic allies for conservation. | N           | Report                            | Head of Evaluation and Monitoring | 2020_community > Unic metrcis> PIACI:<br>- Informe 012-2020-taricayas_pnap<br>- informe 015-2020-taricayas_pnap<br>- informe 037-2020-PNAP_SFZ | 2021_community > Unic metrcis> PIACI:<br>- Informe 037-2021-taricaya<br>- Informe 033-2021-taricaya<br>- Informe 027-2021-taricaya                                   |
|                                              | Promote activities with partners whose goals are focused on protecting emblematic fauna and flora.                                                        | N           | Report                            | Head of Evaluation and Monitoring | * 2020_community > a. Unic metrcis>a.2. PIACI > Acuerdo tripartito                                                                             | * 2021_community > Unic metrcis> PIACI > Acuerdo tripartito                                                                                                          |

**Table 5.9. Monitoring Plan for HCV Maintenance Measures**

| Committed according to PD                                                                                               |                                       |      |                |                                   | Año 2020                                                                                 | Año 2021                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|----------------|-----------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Activity                                                                                                                | Indicator/<br>Verification<br>Means * | Goal | Frequency      | Responsible                       |                                                                                          |                                                                                          |
| Measures to Maintain Flora Species                                                                                      |                                       |      |                |                                   |                                                                                          |                                                                                          |
| Evaluate the state of Natural Regeneration of forest species of commercial interest                                     | Evaluation report                     | 1    | Annual         | Head of Evaluation and Monitoring | It was not done                                                                          | * Biodiversity support > 2021 > Flora > Inf.técnico_002_2022_RN                          |
| Measure the growth of each forest species                                                                               | Evaluation report                     | 1    | Biennial       | Head of Evaluation and Monitoring | It was not done                                                                          | * Biodiversity support > 2021 > Flora > Inf.técnico_004_2022_AP                          |
| Establish adequate silvicultural variables for each species and according to the Cutting Cycle (CC) defined for the MU. | Updated silvicultural system          | 1    | Max 5 years ** | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Flora > Plan Silvicultural MRA 2020<br>• Pág. 9. Cuadro. | * Biodiversity support > 2020 > Flora > Plan Silvicultural MRA 2020<br>• Pág. 9. Cuadro. |
| Define the need and feasibility of implementing silvicultural treatments by species.                                    | Updated silvicultural system          | 1    | Max 5 years ** | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Flora > Plan Silvicultural MRA 2020<br>• Pág. 9. Cuadro. | * Biodiversity support > 2020 > Flora > Plan Silvicultural MRA 2020<br>• Pág. 9. Cuadro. |
| Implement a reduced impact harvesting system (AIR)                                                                      | Evaluation report                     | 1    | Annual         | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Agua > Man.Oper.For. CMRA                                | * Biodiversity support > 2020 > Agua > Man.Oper.For. CMRA                                |

|                                                                                                                |                          |   |              |                                   |                                                                                                                                                                                                                                |                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------|--------------------------|---|--------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Establish an adequate system of control and surveillance of the accesses and limits of the concession.         | N° of invasion events    | 0 | Annual       | Head of Evaluation and Monitoring | *Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020                                                                                                                                                                 | * Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021                                                                                                                                            |
| <b>Measures to Maintain Fauna Species</b>                                                                      |                          |   |              |                                   |                                                                                                                                                                                                                                |                                                                                                                                                                                                                 |
| Prohibit the hunting of fauna species within the concession.                                                   | Hunted Animals           | 0 | Annual       | Head of Evaluation and Monitoring | *Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020                                                                                                                                                                 | * Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021                                                                                                                                            |
| Periodically assess wildlife important for monitoring through sighting log                                     | Evaluation report        | 1 | Annual       | Head of Evaluation and Monitoring | Not performed due to the pandemic                                                                                                                                                                                              | ** Biodiversity support > 2021 > Fauna > Inftecnico_003_2022_FS                                                                                                                                                 |
| Evaluate the state of wildlife in general, in addition to the evolution of its population indicators over time | Evaluation report        | 1 | Quinquennial | Head of Evaluation and Monitoring | Not performed due to the pandemic                                                                                                                                                                                              | * Biodiversity support > 2021 > Fauna > Estudio_Aves_CMRA_FAngulo.                                                                                                                                              |
| Identify important sites for wildlife during forest census work                                                | Site Map                 | 1 | Annual       | Head of Evaluation and Monitoring | Not performed due to the pandemic                                                                                                                                                                                              | * Biodiversity support > 2021 > Conservación > Reporte_006_2021_Identificación. AVC_PC_19<br>• Section 3                                                                                                        |
| Exclude from harvesting areas that host sites of importance for wildlife                                       | N° of trees felled in AC | 0 | Annual       | Head of Evaluation and Monitoring | *Biodiversity support > 2020 > Conservación > PGMF CMRA Feb 2019_uv_spr<br>• Section “Áreas de Conservación (AC) definidas en el Consolidado MADERACRE”<br>*Biodiversity support > 2020 > Agua> MapaBase_PO2019_PC17_MADERACRE | *Biodiversity support > 2020 > Conservación > PGMF CMRA Feb 2019_uv_spr<br>• Section “Áreas de Conservación (AC) definidas en el Consolidado MADERACRE”<br>*Biodiversity support > 2021 > Agua > MapaBase_PCA14 |

|                                                                                                                            |                          |   |        |                                   |                                                                                                                                                         |                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------|---|--------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                            |                          |   |        |                                   |                                                                                                                                                         | * Biodiversity support > 2021 > Agua > Mapa Base_PC18_Reformulado                                                                                       |
| Establish an adequate system of control and surveillance of the accesses and limits of the concession to prevent poaching. | N° of invasion events    | 0 | Annual | Head of Evaluation and Monitoring | *Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020                                                                                          | * Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021                                                                                    |
| <b>Measures to Maintain Conservation Areas</b>                                                                             |                          |   |        |                                   |                                                                                                                                                         |                                                                                                                                                         |
| Exclude conservation areas from forest extraction. Make a use compatible with the conservation of the area.                | N° of trees felled in AC | 0 | Annual | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Conservación > PGMF CMRA Feb 2019_uv_spr<br>• Section “Áreas de Conservación (AC) definidas en el Consolidado MADERACRE | * Biodiversity support > 2020 > Conservación > PGMF CMRA Feb 2019_uv_spr<br>• Section “Áreas de Conservación (AC) definidas en el Consolidado MADERACRE |
| Prohibit the hunting of fauna species within the concession                                                                | Hunted Animals           | 0 | Annual | Head of Evaluation and Monitoring | *Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020                                                                                          | * Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021                                                                                    |
| Delimit and mark conservation areas with the use of pedestrian paths and information signs                                 | Marked AC                | 2 | Annual | Head of Evaluation and Monitoring | It did not adjoin a conservation area                                                                                                                   | * Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021                                                                                    |
| Establish an adequate surveillance system for the accesses and limits of the conservation areas                            | N° of invasion events    | 0 | Annual | Head of Evaluation and Monitoring | *Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020                                                                                          | * Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021                                                                                    |
| <b>Measures to Maintain the Integrity of the Landscape</b>                                                                 |                          |   |        |                                   |                                                                                                                                                         |                                                                                                                                                         |
| Establish an adequate system of control and surveillance of the                                                            | N° of invasion events    | 0 | Annual | Head of Evaluation and Monitoring | *Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020                                                                                          | * Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021                                                                                    |

|                                                                                                        |                       |   |        |                                   |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------|-----------------------|---|--------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| accesses and limits of the concession.                                                                 |                       |   |        |                                   |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                |
| Implement a reduced impact harvesting system (AIR)                                                     | Evaluation report     | 1 | Annual | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Agua > Man. Oper. For. CMRA                                                                                                                                                                                                                 | * Biodiversity support > 2020 > Agua > Man. Oper. For. CMRA                                                                                                                                                                                                                                                                    |
| <b>Measures to Maintain Water Quality</b>                                                              |                       |   |        |                                   |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                |
| Establish an adequate system of control and surveillance of the accesses and limits of the concession. | N° of invasion events | 0 | Annual | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Patrullaje > Plan_Custodia_2020                                                                                                                                                                                                             | * Biodiversity support > 2021 > Patrullaje > Plan_Custodia_CMRA_2021                                                                                                                                                                                                                                                           |
| Establish fiscal strips in rivers and open streams of up to 25 meters on each side.                    | Evaluation report     | 1 | Annual | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Conservación > PGMF CMRA Feb 2019_uv_spr <ul style="list-style-type: none"> <li>Section "Áreas de Conservación (AC) definidas en el Consolidado MADERACRE"</li> </ul> * Biodiversity support > 2020 > Agua > MapaBase_PO2019_PC17_MADERACRE | * Biodiversity support > 2020 > Conservación > PGMF CMRA Feb 2019_uv_spr <ul style="list-style-type: none"> <li>Section "Áreas de Conservación (AC) definidas en el Consolidado MADERACRE"</li> </ul> * Biodiversity support > 2021 > Agua > Mapa Base_PCA14 * Biodiversity support > 2021 > Agua > Mapa Base_PC18_Reformulado |
| Implement a reduced impact harvesting system (AIR)                                                     | Evaluation report     | 1 | Annual | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Agua > Man. Oper. For. CMRA                                                                                                                                                                                                                 | * Biodiversity support > 2020 > Agua > Man. Oper. For. CMRA                                                                                                                                                                                                                                                                    |
| Identify and mark water sources (springs) to avoid being affected by forestry operations.              | Site Map              | 1 | Annual | Head of Evaluation and Monitoring | * Biodiversity support > 2020 > Agua > MapaBase_PO2019_PC17_MADERACRE                                                                                                                                                                                                       | * Biodiversity support > 2021 > Agua > Mapa Base_PCA14 * Biodiversity support > 2021 > Agua > Mapa Base_PC18_Reformulado                                                                                                                                                                                                       |

\*In some cases, they are considered indicators and in the others the Means of Verification

\*\* Max 5 years: The adjustment of the variables and silvicultural treatments will be made based on the results of the monitoring, not exceeding a period greater than 5 years for their review and must occur every time an event that impacts the system is evidenced, importantly (within a period of less than 5 years)

### 5.3.2 Biodiversity Monitoring Plan Dissemination (CCB, B4.3)

In the year 2020, as well as every year despite the pandemic situation, the documents are uploaded to the official website of the project proponent for dissemination. This is shown in the following figure and the online address is <http://maderacre.com/sostenibilidad/>

FSC certifications have always been published, as part of its public announcements on its official page for Peru, which is <https://pe.fsc.org/pe-es>

For the dissemination with the neighboring communities, it is carried out through the social manager, following a social dissemination plan, through informative workshops and meetings with representatives and residents.

The results of the biodiversity monitoring conducted have been disseminated in the social and environmental monitoring plan that includes biodiversity. This was done through a dissemination by letters to each community group and interest group. This document is called "Public summary of social and environmental monitoring". The development of this item can be found in the 4.3.2. Monitoring Plan Dissemination.

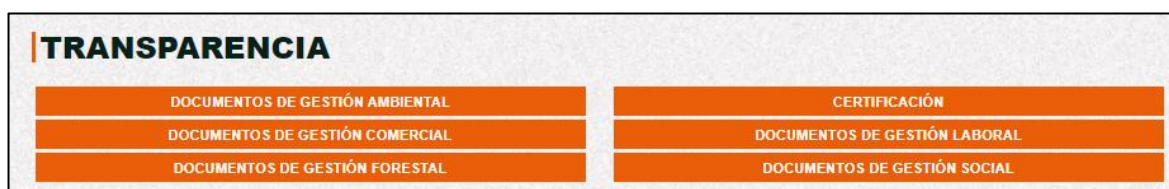


Figure 5.2 Company Webpage

<https://maderacre.com/sostenibilidad/>



Figure 5.3 Environmental management

| DOCUMENTOS DE GESTIÓN COMERCIAL               |                               |
|-----------------------------------------------|-------------------------------|
| • Compromiso Público                          | <a href="#">Ver Documento</a> |
| • Plantas de transformación 2022              | <a href="#">Ver Documento</a> |
| • Abastecimiento de madera 2016-2020          | <a href="#">Ver Documento</a> |
| • Protocolo de Compras Responsables CMRA v2.1 | <a href="#">Ver Documento</a> |
| • Mapa Abastecimiento de madera 2016-2019     | <a href="#">Ver Documento</a> |

Figure 5.4 Commercial Management

| DOCUMENTOS DE GESTIÓN LABORAL                                      |                               |
|--------------------------------------------------------------------|-------------------------------|
| • MRA Política de Ética y Anticorrupción                           | <a href="#">Ver Documento</a> |
| • MRA Política de Igualdad Laboral y Antidiscriminación            | <a href="#">Ver Documento</a> |
| • MRA Procedimiento de Reclutamiento , Selección e Incorporación   | <a href="#">Ver Documento</a> |
| • MRA Política y Procedimiento de Promociones y Transferencias     | <a href="#">Ver Documento</a> |
| • Empleabilidad 2022                                               | <a href="#">Ver Documento</a> |
| • MRA Registro de entrega EPP 2022                                 | <a href="#">Ver Documento</a> |
| • MATIM Política de Igualdad Laboral y Antidiscriminación          | <a href="#">Ver Documento</a> |
| • MATIM Procedimiento de Reclutamiento , Selección e Incorporación | <a href="#">Ver Documento</a> |
| • MATIM Política de Ética y Anticorrupción                         | <a href="#">Ver Documento</a> |
| • Política de SST 2020                                             | <a href="#">Ver Documento</a> |
| • Código de conducta 2020                                          | <a href="#">Ver Documento</a> |
| • Reporte Capacitaciones SST 2019                                  | <a href="#">Ver Documento</a> |

**Figure 5.5 Labor management**

| DOCUMENTOS DE GESTIÓN FORESTAL                                                                            |                                 |
|-----------------------------------------------------------------------------------------------------------|---------------------------------|
| • Mapa BAVC 2022                                                                                          | <a href="#">Q Ver Documento</a> |
| • Mapa_CMRA_División administrativa 2022                                                                  | <a href="#">Q Ver Documento</a> |
| <a href="#">Q Ver Documento</a>                                                                           |                                 |
| • CCB_VCS_Project_Description_Tahuamanu_Amazon                                                            | <a href="#">Q Ver Documento</a> |
| • Resumen Ejecutivo del Proyecto Tahuamanu Amazon REDD Project                                            | <a href="#">Q Ver Documento</a> |
| • Monitoreo de OF MRA Zafra 2021-2022                                                                     | <a href="#">Q Ver Documento</a> |
| • Plan Integral de Custodia CMRA 2022                                                                     | <a href="#">Q Ver Documento</a> |
| • Resolución 050-2019-ALC-MP-TAH – Defensa Civil Tahuamanu                                                | <a href="#">Q Ver Documento</a> |
| • Reporte custodia de tala, caza ilegal e incendio 2020                                                   | <a href="#">Q Ver Documento</a> |
| • Reporte – Regeneración Natural 2020                                                                     | <a href="#">Q Ver Documento</a> |
| • Monitoreo de OF MRA Zafra 2020-2021                                                                     | <a href="#">Q Ver Documento</a> |
| • Monitoreo de OF MRA Zafra 2019-2020                                                                     | <a href="#">Q Ver Documento</a> |
| • Informe 32-2019-MADERACRE-MECM – Capacitación Incendios Forestales Bomberos                             | <a href="#">Q Ver Documento</a> |
| • Informe 017-2020-MADERACRE-MECM – Capacitación Riesgo Incendios Forestales Serfor                       | <a href="#">Q Ver Documento</a> |
| • Comité-de Gestion PN Alto Purus                                                                         | <a href="#">Q Ver Documento</a> |
| • Comité de Gestion de Bosques de la Cuenca del Rio Acre – Constancia                                     | <a href="#">Q Ver Documento</a> |
| • Comité de Gestion de Bosques de la Cuenca del Rio Acre – Carta Goremad                                  | <a href="#">Q Ver Documento</a> |
| • Acuerdo Tripartito de Maderacre con la Jefatura del PN Alto Purus y la Sociedad Zoologica de Francfort. | <a href="#">Q Ver Documento</a> |
| • Reglamento Operaciones MF CMRA                                                                          | <a href="#">Q Ver Documento</a> |
| • Registro de Incendios UMF                                                                               | <a href="#">Q Ver Documento</a> |
| • PGMF CMRA 2019 Resumen Público                                                                          | <a href="#">Q Ver Documento</a> |
| • PGMF CMRA 2019                                                                                          | <a href="#">Q Ver Documento</a> |
| • Mapa AVC PC 18                                                                                          | <a href="#">Q Ver Documento</a> |
| • Identificación BAVC CMRA 2015                                                                           | <a href="#">Q Ver Documento</a> |

**Figure 5.6 Forest management**

| CERTIFICACIÓN                           |                                 |
|-----------------------------------------|---------------------------------|
| • Adhesión a Principios y criterios FSC | <a href="#">Q Ver Documento</a> |
| • Adhesión a Principios y criterios FSC | <a href="#">Q Ver Documento</a> |

Figure 5.7 Certification



Figure 5.8 Social management

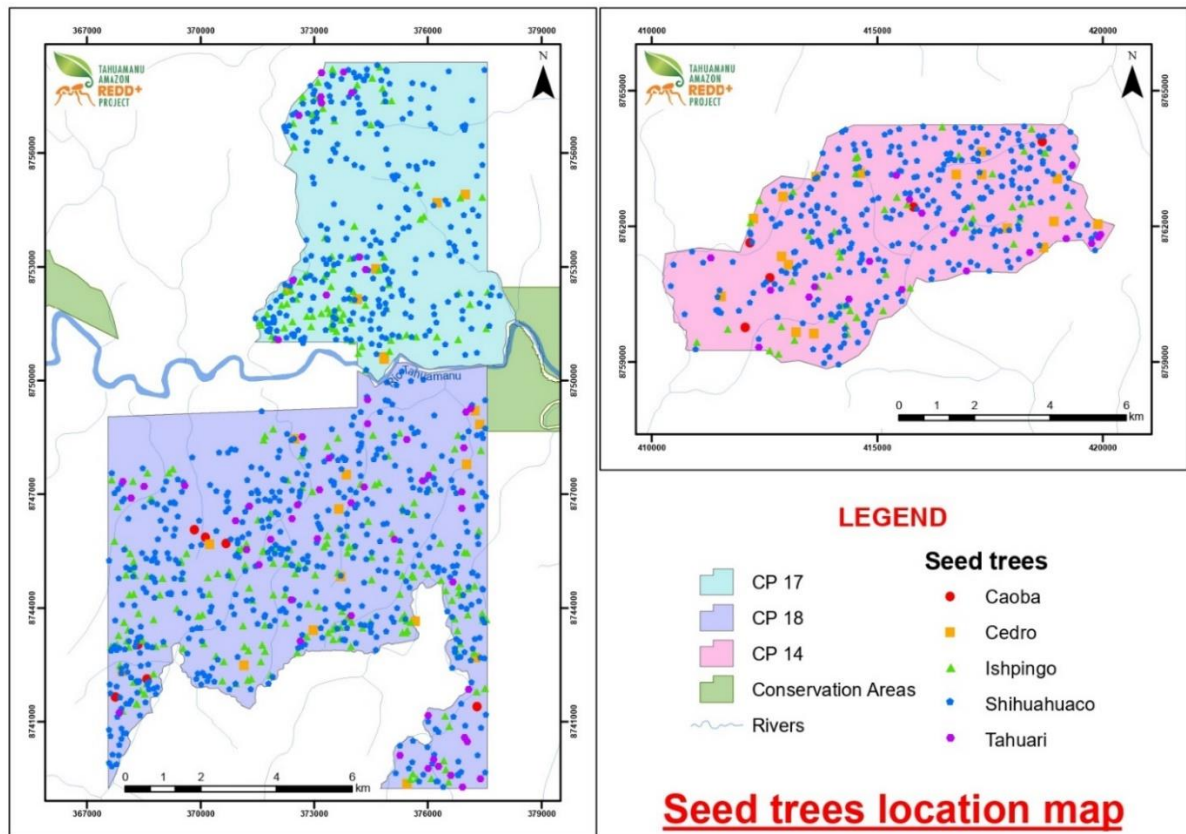
## 5.4 Optional Criterion: Exceptional Biodiversity Benefits

A flora and fauna study were conducted to obtain FSC certification. The study identified the presence of *Amburana cearensis*, also known as "ishpingo," as the only commercially exploitable species that is classified as Endangered by the IUCN (2019). Additionally, the species *Dipteryx micrantha*, also known as "shihuahuaco," *Handroanthus capitatus*, also known as "tahuari," *Swietenia macrophylla*, also known as "caoba," and *Cedrela odorata*, also known as "cedro," are considered under CITES Appendix II. To ensure their sustainable management, MADERACRE SAC has defined a diameter at breast height for each species, which is higher than the values established by the Peruvian forestry authority, as shown below.

Table 5.10. DBH difference range of species of commercial interest under threat

| Category             | Species                       | DBH proposed by Maderacre (cm) | DBH proposed by the forestry authority (cm) | Increase in DBH (cm) | No. of seed tree |       |       |
|----------------------|-------------------------------|--------------------------------|---------------------------------------------|----------------------|------------------|-------|-------|
|                      |                               |                                |                                             |                      | PC 14            | PC 17 | PC 18 |
| CITES Appendix II    | <i>Dipteryx micrantha</i>     | 75                             | 51                                          | 24                   | 308              | 266   | 492   |
| CITES Appendix II    | <i>Handroanthus capitatus</i> | 60                             | 46                                          | 14                   | 19               | 11    | 44    |
| IUCN Endangered (EN) | <i>Amburana cearensis</i>     | 70                             | 56                                          | 14                   | 51               | 85    | 193   |
| CITES Appendix II    | <i>Swietenia macrophylla</i>  | 90                             | 75                                          | 15                   | 5                | 0     | 7     |
| CITES Appendix II    | <i>Cedrela odorata</i>        | 70                             | 65                                          | 5                    | 17               | 7     | 14    |

The DBHs are higher than those defined in national regulations. Their purpose is to reduce the intensity of species harvesting and guarantee the presence of healthy populations to fulfill their ecological roles. For each of the exploited PCs, the mentioned species have a network of seedlings that allow them to fulfill their ecological role in the forest.



**Figure 5.9 Dispersion map of seed trees in PC 14, 17 and 18**

MADERACRE S.A.C. carries out sustainable forest management operations based on FSC principles and criteria to protect and conserve forests. Forest harvesting of selected species, including *Amburana cearensis*, *Dipteryx micrantha*, *Swietenia macrophylla*, and *Handroanthus capitatus*, is managed through reduced-impact harvesting techniques, with the aim of reducing forest degradation throughout the entire process. The management of these species was carried out according to the Operational Plan for Forest Concession for Timber Operations PO 2020-2021 and for the first two species only for PO 2021-2022, under the guidelines of the "Man.Oper.For. CMRA". Please refer to the "Biodiversity" support file for more information.

The fundamental basis of sustainable management of tropical forests is the maintenance of natural regeneration. MADERACRE SAC, through the evaluation of natural regeneration of 30 commercially important forest species in the Managed Forest Unit (UMF), has shown that as a result of forest harvesting activities, the development of individuals in the understory has been allowed due to increased light penetration resulting from the opening of gaps. This has increased the abundance of seedlings by a range of 9 years for the species of interest, including *Dipteryx micrantha* with 301%, *Amburana cearensis* with 4000%, and *Cedrela odorata* with 6400%, compared to the situation of these species in an unmanaged forest.

The greater presence of seedlings in this first stage, the increased light input generated by the creation of gaps, and the subsequent release of the ecosystem's carrying capacity is considered to be generating suitable conditions for increasing the number of recruited individuals in the sapling

and pole classes in the future. The creation of gaps in the forest through forest harvesting creates environmental conditions that could improve the recruitment conditions of species from residual seedlings to higher classes, allowing the generation of a manageable stock available for future rotations. In addition, the maintenance of the overall good conservation status of the ecosystem in the Managed Forest Unit has allowed for healthy populations of wildlife responsible for pollination and genetic material dispersal, such as bat, macaw, and añuje populations, among others (evidenced by periodic wildlife assessments). These factors may be causing an increase in early natural regeneration above the values for the species compared to the unmanaged forest, improving conditions for maintaining a healthy population in the project area.

The complement to natural regeneration studies is the average annual diameter growth rate for the timber species of interest, including *Dipteryx micrantha*, *Amburana cearensis*, *Cedrela odorata*, *Swietenia macrophylla*, and *Handroanthus capitatus*, managed in the UMF in 2021. The historical growth value considering all evaluations since 2015 is 0.76 cm/year, which falls within the estimated range for South American tropical forests.

Permanent Monitoring Plots (PPM) are a tool for managing and researching the dynamics of natural forests such as those found in the project area. The studies conducted in 2021 have helped understand the forest dynamics and structural change, determining the levels of mortality and recruitment of species, as well as the development of saplings and pole-sized trees in the understory. The available information will support decision-making for improving silvicultural plans implemented in the UMF.

The forest census conducted in PC 19 in 2021 resulted in the identification of the *Bertholletia excelsa* species ("Brazil nut"), recognized as a non-timber forest product, whose local value is considered as an economic support for communities due to the generation of jobs in harvesting, nut processing and post-sale activities. It is considered an important species for conservation and forest development strategies through its use, as well as for maintaining biological diversity in its ecosystems, reducing interest in expanding agricultural and/or livestock areas.

In the framework of the Tripartite Agreement with the Alto Purus National Park (PNAP) and the Frankfurt Zoological Society (SZF), work on "Forest Management and Conservation" continues the Tahuamanu River, with support from the Surveillance Posts within the project area. Monitoring and management of the species *Podocnemis unifilis* ("taricaya") was carried out to ensure the survival of the species due to the over-collection carried out by people dedicated to the activity and post-sale of its eggs. Therefore, within the framework of the activity, the possibilities of fulfilling the ecological role of the species are increased, as they are a basic food for the diet of the PIACI located in the Tahuamanu River basin.

In conjunction with the World Wildlife Fund (WWF) and NODO Conservation, canopy bridges have been installed along the UMF road, allowing the connection of arboreal fauna. Ten species of mammals have been identified using the bridges, seven of which were primates representing the largest group for the dispersion of plant species in the forest. The objective of the activity is to decrease exposure, as individuals crossing the road lessens the probability of being preyed upon by jaguars and/or eagles. It is expected that the constant use of these structures will be recorded

for at least the next 3 years, as they are part of the mitigation tools and good forest practices for developing an extractive activity aimed at maintaining and improving the health of wildlife.

The Center for Ornithology and Biodiversity (CORBIDI) has conducted a study on the health of managed forest ecosystems based on bird composition within the project area. The study concludes that the highest diversity of birds is observed in the FSC-certified Maderacre UMF. In this context, certified forest concessions have demonstrated their ability to fulfill the conservation role of bird diversity in the Peruvian Amazon. Therefore, it is recommended that this management modality be considered complementary to the work of protected natural areas, as they primarily maintain forest cover in large areas. In addition, the study has identified two additional key species that are important for demonstrating the ecological health of the forest, bringing the total number of key species to 25 for the implementation of a monitoring system in the UMF

In addition, the Interpretation Center under planification will raise awareness and educate about forest management and forest conservation. This will contribute to the protection of emblematic species of fauna and flora.

#### 5.4.1 Trigger Species Population Trends (CCB, GL3.2, GL3.3)

In addition, the Interpretation Center under planification will raise awareness and educate about forest management and forest conservation. This will contribute to the protection of emblematic species of fauna and flora.

**Table 5.11. Trigger Species Population Trends<sup>88</sup>**

| Trigger Species  | Jaguar ( <i>Panthera onca</i> ) The IUCN Red List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Previous studies | <p>Proyecto Areas Amazonia, WWF- Perú y San Diego Zoo Global. Informe preliminar del Estudio de jaguares y pumas en las ocnciones forestales certificadas maderas cocama y aserradero Espinoza. (Puerto Maldonado, Setiembre 2012).</p> <p>Jaguar density and the impact of sustainable forest management on the large mammal community in the southwestern Amazon AREAS-AMAZONIA PROJECT (Tobler, Carrilo-Percastegui and Zuñiga. 2015). Mammal diversity in forest concessions: MADERACRE.</p> <p>High jaguar densities and large population sizes in the core habitat of the southwestern Amazon.</p> <p>Spatiotemporal hierarchical modelling of species richness and occupancy using camera trap data.</p> <p>Do responsibly managed logging concessions adequately protect jaguars and other large and medium-sized mammals? Two case studies from Guatemala and Peru</p> |

<sup>88</sup> Folder of Evidence cited in Appendix 5. File "Biodiversity" Support

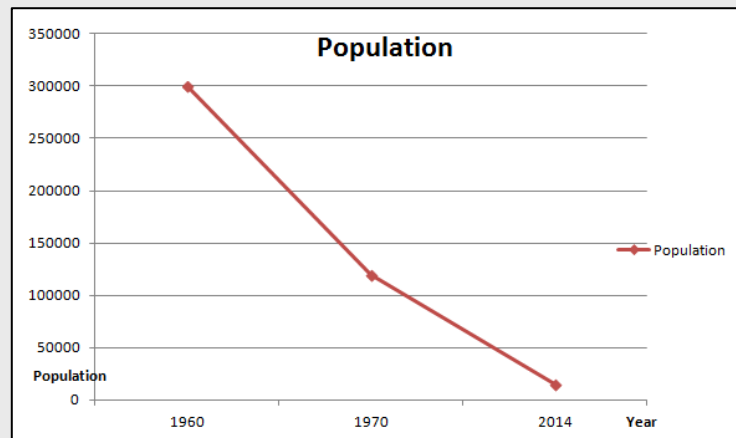
## Tendencias Poblacionales de las especies clave

### Acciones para mantener o mejorar el estado de las poblaciones

#### Escenario (Zona del Proyecto)

The jaguar is an umbrella species that provides environmental services by helping to maintain a healthy ecosystem. If jaguar populations are reduced, their prey, which are typically large herbivores, increase significantly in abundance and consume plant species without control. This alters the composition and structure of the forest and soil, affecting river channels and, therefore, has a chain effect on other living beings. These impacts can escalate towards crop areas of populations near the forests and thus cause socio-economic impacts in the project's surroundings.

The jaguar population has dramatically decreased in the past 150 years due to habitat destruction, trophy hunting, conflict with humans, and illegal trade and poaching. Currently, jaguars are listed as "Near Threatened" on the IUCN Red List of Threatened Species and have been protected under CITES since 1973. The species now only inhabits 40% of its original range, and there are only 15,000 jaguars estimated to be left in the wild. In addition, Peru, the second country with the largest number of jaguars after Brazil, has requested that CITES recognize the jaguar as a flag species of the American countries where it lives and adopt special measures to protect it. The threats to jaguar survival are increasing, and urgent action is needed to prevent the extinction of this species.



Implementation of forestry operations under the Reduced Impact logging framework according to the Forestry Operations Manual of the MADERACRE Consolidated Forest Operations, which allows for the reduction of ecosystem disturbances. In addition, monitoring of forestry operations in the MADERACRE Consolidated Forest Operations, Zafra 2019-2020 and Zafra 2020-2021, aimed at determining whether forestry operations have impacted the wildlife ecosystem, in this case, that of the jaguar.

Control and surveillance system for poaching, hunting prohibition; in addition, control and surveillance of access and boundaries of the concession, under the Comprehensive Custody Plan for the years 2020 and 2021. And report on the custody and surveillance activities implemented to safeguard the biological heritage of the forest management unit (UMF) and surrounding areas (Custody and Surveillance of the Consolidated MADERACRE SAC 2020 and 2021). Exclude from logging areas that harbor important wildlife sites. These areas were identified in the Conservation Areas (CA) Section of the

General Forest Management Plan of the Consolidated MADERACRE (2019). The identification and signaling of the Sites with High Conservation Value being georeferenced in forest harvesting maps, such as bathing places, bird and mammal clay licks, oxbow lakes, water springs, burrows and nests, pools or watering holes, among others, whose function plays an important ecological role for the development of mammals preyed upon by jaguars, as well as, in PC19 was carried out during the commercial forest census of the year 2021. (Report N°006-2020-MADERACRE/CECR).

Under the action guidelines of the Tripartite Agreement, three important aspects were agreed upon: surveillance and control of protected areas and their buffer and influence zones, monitoring and management of natural resources of importance to the area, formal and non-formal environmental education, and as a transversal line of action the development of capacities of personnel involved in the main lines, all under an articulated work approach having as main purpose the conservation of the biological diversity of the territory.

Annual study of wildlife in already harvested logging plots, since it is necessary to know the degree of impact that logging activities (construction of camps, roads, bridges, logging, dragging, etc.) are having on wildlife populations and their habitats. Individuals of *Panthera onca* were recorded, which is of special consideration because the conservation of this species is very important since it is an "umbrella species" or "landscape species" because it uses large and ecologically diverse areas and has significant impacts on the structure and function of natural ecosystems, This is why their habitat requirements in time and space make them particularly vulnerable to human practices of land use and resource harvesting (WCS, 2002), and this is how the monitoring of these species and their presence in MADERACRE SAC indicates the good health of their habitat. (Inf. Técnico 003-2022-CCR-Fauna Silvestre).

The Jaguar 2030 Plan aims to strengthen the biological corridor of the species in 30 priority countries, including Peru, by promoting sustainable development and reducing human-wildlife conflicts. The project area, being a space free of hunting and with reduced impact harvesting techniques, allows for the maintenance of healthy jaguar populations that can naturally be considered part of the biological corridor, expanding its range. Additionally, the project area is adjacent to the Jaguar Conservation Units in the Tahuamanu province. In support of this, the San Diego Zoo Global is installing annual camera traps throughout the extent of the UMF for a study to determine the size of conservation areas in the Amazon required to ensure the species' maintenance, and the connectivity requirements of the areas to ensure their populations remain viable.

# APPENDIX

Appendix 1. Internal Communication Plan. “Plan de Comunicaciones Responsabilidad Social 2021”

Appendix 2. Estimation of Scarcity Factor.

Appendix 3. Excel document: “VCU’s Tahuamanu”

Appendix 4. File "Community" Support

Appendix 5. File "Biodiversity" Support

Appendix 6. “Maderacre FSC FM reassessment 22 SPA”

Appendix 7. Modelling and location of unplanned deforestation.

Appendix 8. Updated Beta regression.

Appendix 9. Definitions for terms used in the Report Monitoring document

Appendix 10. Project Contribution Evidence to the SDG