TEMPLATE

KEY PROJECT INFORMATION & PROJECT DESIGN DOCUMENT (PDD)

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VERSION **v.1.5**

RELATED SUPPORT

- TEMPLATE GUIDE Key Project Information & Project Design Document

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KEY PROJECT INFORMATION

GS ID of Project	GS5830[1]
Title of Project	Renewable Power Project by Emami Power Ltd
Time of First Submission Date	08/11/2017
Date of Design Certification	08/11/2017
Version number of the PDD	04
Completion date of version	21/10/2024
Project Developer	EKI Energy Services Limited
Project Representative	Electryone Power Private Limited formerly known as Emami Power Limited
Project Participants and any communities involved	Project Participant: Electryone Power Private Limited formerly known as Emami Power Limited Communities Involved: Not Applicable
Host Country (ies)	India
Activity Requirements applied	☐ Community Service Activity ☒ Renewable Energy ☐ Land-Use and Forests Activity Requirements/Risks & Capacities ☐ N/A
Scale of the project activity	☐ Micro scale ☐ Small Scale ☒ Large Scale
Other Requirements applied	GS4GG Principles and Requirements Version 1.2[2]
Methodology (ies) applied and version number	ACM0002- "Grid-connected electricity generation from renewable sources - Version 22.0[3]"

[1] https://registry.goldstandard.org/projects/details/1376

[2] https://globalgoals.goldstandard.org/101-par-principles-requirements/

[3] https://cdm.unfccc.int/UserManagement/FileStorage/R0IJ1X9LQ7W2GOYHSMBFCPE3VKZ685

Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A
Project Cycle:	☐ Regular ☒ Retroactive

Table 1 – Estimated Sustainable Development Contributions

SUSTAINABLE DEVELOPMENT GOALS TARGETED	SDG IMPACT (DEFINED IN B.6)	ESTIMATED ANNUAL AVERAGE	UNITS OR PRODUCTS
SDG 13 - Climate Action (mandatory)	Emission reductions	29,567	GSVER's
SDG 7– Affordable and Clean Energy	MWh of renewable energy generated	31,615.71	MWh
SDG 8 – Decent Work and Economic Growth	Number of trainings and employment generated from project	1 training and employment to 10 Persons	Number of trainings and Employment generated through project

SECTION A. DESCRIPTION OF PROJECT

A.1 Purpose and general description of project

The main purpose of this project activity is to generate clean form of electricity through renewable solar energy source. Electryone Power Private Limited formerly known as Emami Power Ltd is the project participant of the proposed project activity. The project activity involves installation of 20 MW AC (22.5 MWp DC) solar power project Villages: Udelhedi, Naharpur, Mannakhedi, Kumrada, Tehsil: Roorkee District: Haridwar. The project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 29,567 tCO2e per year, thereon displacing 31,615.71 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian grid, which is mainly dominated by thermal/fossil fuel based power plant.

The details of the project and the state of installation are mentioned in the table:-

Project Participant Name	**Capacity in MW**	**DC Capacity in MWp**	**Connection with Grid**	**State**	**Usage of Electricity**
Electryone Power Private	20 MW (AC)	22.5 MWp (DC)	Indian Grid	Uttarakhand	Sale to Grid

Limited formerly known as Emami Power Ltd Emami Power Ltd.					

Sectoral Scope: 01 : Energy Industries (renewable - /non-renewable sources)
Methodology : ACM0002: Grid-connected electricity generation from renewable sources- Version 22.0[4] (EB 122 Annex 2)
Project Type: (i) : Renewable energy projects

Tools referred with above methodology and applicable

Tool to calculate the emission factor for an electricity system - Version 07.0[5] (EB 87, Annex 09)
Tool for the demonstration and assessment of additionality[6]- Version 07.0.0 (EB 70, Annex 08)
Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period[7] – Version 03.0.1 (EB 66, Annex 47)

Scenario existing prior to the implementation of project activity:

The scenario existing prior to the implementation of the project activity, is electricity delivered to the grid by the project activity that would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system" Version 07.0[8] (EB 87, Annex 09).

Baseline Scenario:

As per the applicable methodology, a Greenfield power plant is defined as "a new renewable energy power plant that is constructed and operated at a site where no renewable energy power plant was operated prior to the implementation of the project activity".
As the project activity falls under the definition of a Greenfield power plant, the baseline scenario as per paragraph 24 of Section 5.2.1 of applied methodology is the following:
If the project activity is the installation of a Greenfield power plant, the baseline scenario is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new

[4] https://cdm.unfccc.int/UserManagement/FileStorage/R0IJ1X9LQ7W2GOYHSMBFCPE3VKZ685
[5] https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf
[6] http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf
[7] https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-11-v3.0.1.pdf
[8] https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf

generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system".
Hence, pre-project scenario and baseline scenario are the same.

Sustainable development indicators

The National CDM Authority (NCDMA), which is the Designated National Authority (DNA) for the Government of India (GOI) under the Ministry of Environment and Forests (MoEF), has mentioned four indicators for the sustainable development in the interim approval guidelines for Clean Development Mechanism (CDM) projects from India[9].Thus the project's contribution towards sustainable development has been addressed based on the following sustainable development aspects:

Social well-being

The project activity provided / provides job opportunity to local people during erection, commissioning and maintenance of the solar project. Frequency of visiting villages and nearby areas by skilled, technical and industrialist increase due to installation /site visit/operation and maintenance work related to solar plant. This directly and indirectly positively effects the economy of villages and nearby area.

Environmental well-being

Solar power is one of the cleanest renewable energy powers and does not involve any fossil fuel. There are no GHG emissions. The impact on land, water, air and soil is negligible. Thus the project activity contributes to environmental well-being without causing any negative impact on the surrounding environment.

Economic well-being

The CDM project activity generates permanent and temporary employment opportunity within the vicinity of the project. The electricity supply in the nearby area improves which directly and indirectly improves the economy and life style of the area.

Technological well-being

The project activity is step forward in harnessing the untapped solar potential and further diffusion of the solar technology in the region. The project activity leads to the promotion and demonstrates the success of solar projects in the region which further motivate more investors to invest in solar power projects. Hence, the project activity leads to technological well-being.
The Host County Approval issued by Indian DNA declaring acceptability of the Sustainable Indicators by the project activity shall be submitted to DOE.

A.1.1. Eligibility of the project under Gold Standard

The project activity meets the eligibility criteria as per section 4 of GS4GG Principles & Requirements-v1.2[10] as described below:

[9] http://www.cdmindia.gov.in/approval_process.php
[10] https://globalgoals.goldstandard.org/101-par-principles-requirements/

(a) Project Type: Solar power is an approved project type and does not require any specific approval from Gold Standard. The project applies methodology ACM0002., Version 22, Sectoral Scope: 01, which is an approved methodology under Gold Standard.
(b) Project Location: The project is located in India. The project is therefore eligible. The geo-coordinates of the project can be referred section A.2.
(c) Project Area, Boundary and Scale: The project activity follows the UNFCCC approved methodology and project Area and Boundary is defined in line with methodological requirement. The project activity constitutes a 20 MW solar power project and thus qualifies under large scale projects.
(d) Host Country Requirements: The project has obtained all the requirement for the commissioning of the project from the Government of India.
(e) Contact Details: Please refer Appendix 2 for the contact details.
(f) Legal ownership: Please refer section A.1.2 for the legal ownership details.
(g) Other Rights: The legal ownership of the project lies with the PPs and the same has been demonstrated in section A.1.2. There are no any disputes in regard to this project activity.
(h) Official Development Assistance (ODA) Declaration: Refer Section A.5 for the information of funding sources of projects.

The project activity is a CDM Registered project having UNFCCC number as 10393[11] with first crediting period (renewable twice) of 03/08/2017 to 02/08/2024. Since the project transitioned from GS-CER to GS-VER on 17/02/2022. Thus, the total duration of crediting period under GS4GG will be 15 years. The Crediting Period under GS4GG will be as follows:

First crediting period: 03/08/2017 to 02/08/2022
Second crediting period: 03/08/2022 to 02/08/2027
Third crediting period: 03/08/2027 to 02/08/2032

This is the second crediting period of the project activity.

A.1.2. Legal ownership of products generated by the project and legal rights to alter use of resources required to service the project

The project participant ELECTRYONE POWER PRIVATE LIMITED formerly known as Emami Power Limited is the legal owner of the project and has the legal rights for the credits.

A.2 Location of project

Country: India
State : Uttarakhand
Village : Udelhedi, Naharpur, Mannakhedi, Kumrada
Tehsil : Roorkee
District : Haridwar

[11] https://cdm.unfccc.int/Projects/DB/Applus1501710196.92

Latitude: N 29° 45' 11.18"
Longitude: E 77° 49' 18.76"

The project location as visible in Google Maps is shown below:

A.3 Technologies and/or measures

Sectoral Scope : 01 - Energy industries (renewable / non-renewable sources)

Project Type : I - Renewable Energy Projects

Project Methodology : ACM0002: Grid-connected electricity generation from renewable sources- Version 22.0[12] (EB 122)

The project activity aims to harness solar energy through installation of PV with total installed capacity of 20MW (AC).

The technical specifications[13] of project activity mentioned in below table:

Technical detail of the equipment	**Remark**
Technology	Multi Crystalline Silicon solar cell-based modules
Make of Solar photovoltaic module	Hanwah Solar, China
Module Capacity	315W and 320W
No. of modules	320W: 52680 nos and 315W: 17920 nos; Total capacity of the plant - 22.5024MWp
Inverter Make	ABB, Bangalore
Capacity of Inverter	1000 kW
Total Number of Invertors	20 Units
Transformer	0.380-0.380/33KV, three windings; Rating: 2.1MVA Quantity: 20 numbers
Technical & Operational Lifetime	25 years

Purpose of the Project

The purpose of the project activity is to generate electrical power using Solar Power, there by displacing non-renewable fossil resources resulting to sustainable, economic and environmental development. In the absence of the project activity equivalent amount of power generation would have taken place through fossil fuel dominated power generating stations. Thus, the renewable energy generation from project activity results in reduction of the greenhouse gas emissions.

Positive contribution of the project to the following Sustainable Development Goals:

1. SDG13: Climate Action: The project leads to reduction of approximately 29,567 tCO_2 per annum due to implementation of project activity.

2. SDG 7: Affordable and Clean Energy: The project is generating approximately 31,615.71 MWh of clean energy per annum.

[12] https://cdm.unfccc.int/UserManagement/FileStorage/R0IJ1X9LQ7W2GOYHSMBFCPE3VKZ685

[13] It is to be noted that in future, modules may be replaced with same or different capacity of modules, however the total project activity capacity will remain same.

3. SDG 8: Decent Work and Economic Growth: The project is providing direct employment to 10 person per annum and minimum 1 training per annum is conducted for the project activity.

A.4 Scale of the project

The project is a renewable energy project with maximum output capacity of 20 MW,which is more than the 15 MW. Thus the project falls under large scale project activities.

A.5 Funding sources of project

There is no public funding from Annex 1 countries and no diversion of Official Development Assistance (ODA) involved in the project activity

SECTION B. APPLICATION OF APPROVED GOLD STANDARD METHODOLOGY (IES) AND/OR DEMONSTRATION OF SDG CONTRIBUTIONS

B.1. Reference of approved methodology (ies)

Title: Grid-connected electricity generation from renewable sources
Reference: The project activity meets the eligibility criteria of large-scale project as it is greater than 15 MW.
Methodology: ACM0002: Grid-connected electricity generation from renewable sources- Version 22.0[14] (EB 122)
Type I: Energy industries (renewable / non-renewable sources)
Category: Approved Consolidated Methodology (ACM0002)

Tools referred with above methodology and applicable for project activity are:

- Tool to calculate the emission factor for an electricity system- version 07.0[15] (EB 100, Annex 04)
- Tool for the demonstration and assessment of additionality- version 07.0.0[16] (EB 70, Annex 08)
- Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period[17] – Version 03.0.1 (EB 66, Annex 47)

B.2. Applicability of methodology (ies)

The project activity involves generation of grid connected electricity from renewable solar energy. The project activity has an installed capacity of 20 MW (AC) which will qualify for a large CDM project activity under Type-I of the large scale methodologies. The project status is corresponding to the methodology ACM0002 version 22.0[18] (EB 122) and applicability of methodology are discussed below:

Applicability Conditions as per ACM0002	Applicability to this Project Activity
This methodology is applicable to grid-connected renewable power generation project activities that: a. Install a Greenfield power plant, b. Involve a capacity addition to (an) existing plant(s),	The project activity is a Renewable Energy Project i.e. Solar Power Project which falls under applicability criteria option 1 (a) i.e., "Install a Greenfield power plant". Hence the

[14] https://cdm.unfccc.int/UserManagement/FileStorage/R0IJ1X9LQ7W2GOYHSMBFCPE3VKZ685
[15] http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf
[16] http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf
[17] https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-11-v3.0.1.pdf
[18] https://cdm.unfccc.int/UserManagement/FileStorage/R0IJ1X9LQ7W2GOYHSMBFCPE3VKZ685

c. Involve a retrofit of (an) existing operating plants/units, d. Involve a rehabilitation of (an) existing plant(s)/unit(s), or e. Involve a replacement of (an) existing plant(s)/unit(s). f. Install a Greenfield power plant together with a grid-connected Greenfield pumped storage power plant. The greenfield power plant may be directly connected to the PSP or connected to the PSP through the grid.	project activity meets the given applicability criterion.
In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy power generation project activities that: a. Integrate BESS with a Greenfield power plant; b. Integrate a BESS together with implementing a capacity addition to (an) existing solar photovoltaic or wind power plant(s)/unit(s); c. Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s); d. Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s). e. Integrate a BESS together with a Greenfield power plant that is operating in coordination with a PSP. The BESS is located at site of the greenfield renewable power plant.	This criteria is not applicable for this project activity as it does not use battery Energy Storage System(BESS).
The methodology is applicable under the following conditions: a. The project activity may include renewable energy power plant/unit of one of the following types: hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit; b. In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity	The project activity is an installation of a new grid connected renewable energy solar power plant and hence condition (a) is met. The conditions (b) to (e) are not applicable for this project activity.

addition projects the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity; c. In case of Greenfield project activities, the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g. by referring to feasibility studies or investment decision documents); d. The BESS should be charged with electricity generated from the associated renewable energy power plant(s). Only during exigencies may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions shall be accounted for as project emissions. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant during a monitoring period. During the time periods (e.g. week(s), months(s)) when the BESS consumes more than 2 per cent of the electricity for charging, the project participant shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period. e. (e) In case the project activity involves PSP, the PSP shall utilize the electricity generated from the renewable energy power plant(s) that is operating in coordination with the PSP during pumping mode.	

In case of hydro power plants, one of the following conditions shall apply: (a) The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or (b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density of the project activity, as per definitions given in the Project Emissions section, is greater than 4 W/m^2 ; or (c) The project activity results in new single or multiple reservoirs and the power density of the project activity, as per definitions given in the Project Emissions section, is greater than 4 W/m^2 ; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, as per definitions given in the Project Emissions section, is lower than or equal to 4 W/m^2, all of the following conditions shall apply. (i) The power density calculated using the total installed capacity of the integrated project, as per definitions given in the Project Emissions section, is greater than 4 W/m^2; (ii) Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity. (iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m^2 shall be a. Lower than or equal to 15 MW; and b. Less than 10 per cent of the total installed capacity of integrated hydro power project.	This condition is not relevant, as the project activity is not the installation of a hydro power plant.
In the case of integrated hydro power projects, project proponent shall: (a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to	This condition is not relevant, as the project activity is not the installation of a hydro power plant.

the generation capacity of the integrated hydro power project; or (b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore, this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum of five years prior to the implementation of the CDM project activity.	
In the case of PSP, the project participants shall demonstrate in the PDD that the project is not using water which would have been used to generate electricity in the baseline.	This condition is not relevant, as the project activity is not the installation of a hydro power plant and not involves pump storage plant/system.
The methodology is not applicable to the following: • Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; • Biomass fired power plants;	The project activity does not involve any of the given criteria hence methodology is applicable for the project activity.
In the case of retrofits, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, i.e. to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".	The project activity does not involve any capacity additions, retrofits or replacements and therefore this condition is not applicable.

Applicability conditions of "Tool 07.0[19]: Tool to calculate the emission factor for an electricity system"

Para No.	Applicability Conditions	Applicability to this Project Activity
3	This tool may be applied to estimate the OM, BM and/or CM when calculating baseline emissions for a project activity that substitutes grid electricity that is where a project activity supplies electricity to a grid or a project activity that results in savings of electricity that would have been provided by the grid (e.g., demand-side energy efficiency projects).	The project is a grid connected Greenfield Solar power project and thus the tool is applicable.
4	Under this tool, the emission factor for the project electricity system can be calculated either for grid power plants only or, as an option, can include off-grid power plants. In the latter case, the conditions specified in "Appendix 2: Procedures related to off-grid power generation" should be met. Namely, the total capacity of off-grid power plants (in MW) should be at least 10 per cent of the total capacity of grid power plants in the electricity system; or the total electricity generation by off-grid power plants (in MWh) should be at least 10 per cent of the total electricity generation by grid power plants in the electricity system; and that factors which negatively affect the reliability and stability of the grid are primarily due to constraints in generation and not to other aspects such as transmission capacity.	Since the project activity is grid connected, this condition is applicable, and the emission factor has been calculated accordingly. The emission factor for the project electricity system is calculated for grid power plants only.
5	In case of CDM projects the tool is not applicable if the project electricity system is located partially or totally in an Annex I country.	The project activity is located in India, a non-Annex I country. Therefore, this criterion is not applicable for the project activity
6	Under this tool, the value applied to the CO_2 emission factor of biofuels is zero.	The project activity is a grid connected solar power project

[19] http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf

		and operates on the solar energy and has no requirements/relevance with biofuels. Therefore, this criterion is not applicable for the project activity.

Applicability conditions of Tool 01- "Tool for the demonstration and assessment of additionality[20]"

Applicability Conditions	**Applicability to this Project Activity**
The use of the "Tool for the demonstration and assessment of additionality" is not mandatory for project participants when proposing new methodologies. Project participants may propose alternative methods to demonstrate additionality for consideration by the Executive Board. They may also submit revisions to approved methodologies using the additionality tool.	Since the applied technology is not a new methodology project owner has applied this tool for the demonstration additionality in compliance with the tool. Hence this tool is applicable
Once the additionality tool is included in an approved methodology, its application by project participants using this methodology is mandatory.	In line with the methodology requirement Project developer has applied this tool for the demonstration of additionality assessment. Hence this tool is applicable

Applicability conditions of Tool 11- "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period – Version 03.0.1 (EB 66, Annex 47)[21]"

Applicability Conditions	**Applicability to this Project Activity**
The first step provides an approach to evaluate whether the current baseline is still valid for the next crediting period	At the time of registration baseline emission factor has calculated from CEA database, Version 11.0, April 2016[22]. Recently released database version 19.0[23] from Central Electricity Authority (CEA),and the the emission factor is

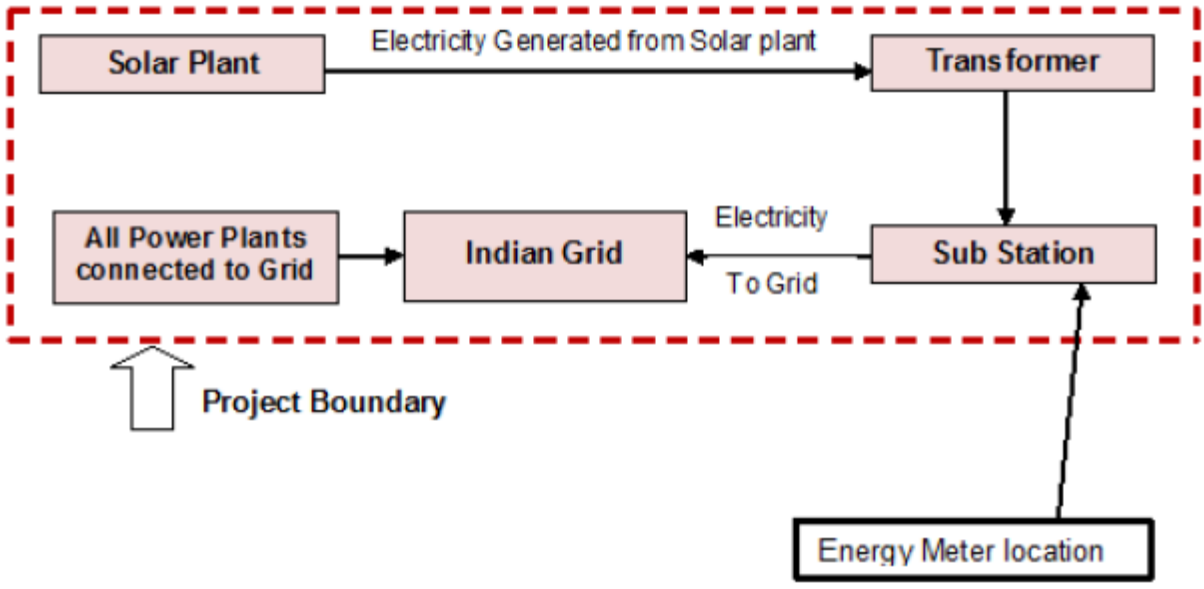
[20] http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf
[21] https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-11-v3.0.1.pdf
[22] http://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver11.pdf

[23] https://cea.nic.in/wp-content/uploads/baseline/2024/01/User_Guide__Version_19.0.pdf

	changed. Thus, the baseline is not valid at the time of renewal of project. Hence this tool is applicable.
The second step provides an approach to update the baseline in case that the current baseline is not valid anymore for the next crediting period.	The current baseline is calculated as per latest CEA data base version 19.0[24].The baseline emission factor has been calculated as per tool 07 "Tool to calculate the emission factor for an electricity system- version 07.0 (EB 100, Annex 04)". The ,calculated emission factor is 0.9352. Hence this tool is applicable

B.3. Project boundary

As per ACM 0002 version 22.0[25] (EB 122 Annex 2)- "The spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the CDM project power plant is connected to".
The project boundary includes the solar project, sub-stations, grid and all power plants connected to grid. The proposed project activity will evacuate power to the Indian grid. Therefore the entire Indian grid and all connected power plants have been considered in the project boundary for the proposed CDM project activity.



[24] https://cea.nic.in/wp-content/uploads/baseline/2024/01/User_Guide__Version_19.0.pdf
[25] https://cdm.unfccc.int/UserManagement/FileStorage/R0IJ1X9LQ7W2GOYHSMBFCPE3VKZ685

The following diagram explains the project boundary for the project activity -

Source		GHGs	Included?	Justification/Explanation
Baseline scenario	Grid connected electricity generation.	CO_2	Yes	Main emission source (From Coal Based Thermal Power Plants)
		CH_4	No	Minor emission source
		N_2O	No	Minor emission source
		Other	No	No other emissions are emitted from the project
Project scenario	Greenfield Solar PV Project Activity.	CO_2	No	No CO_2 emissions are emitted from the project
		CH_4	No	Project activity does not emit CH_4
		N_2O	No	Project activity does not emit N_2O
		Other	No	Project activity does not emit other forms of GHG emissions

B.4. Establishment and description of baseline scenario

Updated baseline for the second crediting period in line with the tool 11 "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period." Version 03.0.1. This tool provides a stepwise procedure to assess the continued validity of the baseline and to update the baseline at the renewal of a crediting period, as required by paragraph 305 of Project Standard version 09[26] & 49 (a) of the modalities and procedures of the clean development mechanism. Updated baseline for the second crediting period in line with the tool 11"Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period." Version 03.0.1.

The tool stipulates the following steps to be carried out.

Step 1: Assess the validity of the current baseline for the next crediting period

Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies.

The baseline scenario remains unchanged that is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the TOOL 07 "Tool to calculate the emission factor for an electricity system, version 07.0[27] (EB 100, Annex 04)". and is in compliance with all the relevant mandatory national and/or sectoral policies (National Electricity Act 2003[28]).

[26] https://cdm.unfccc.int/sunsetcms/storage/contents/stored-file-20150225165159970/reg_stan01.pdf
[27] http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf
[28] https://cercind.gov.in/Act-with-amendment.pdf

Step 1.2: Assess the impact of circumstances

The baseline scenario identified at the validation of the project activity was the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid connected power plants and by the addition of new generation sources into the grid. Thus, this project activity was a voluntary investment which intends to replace equivalent amount of electricity at grid from renewable source. PD was not bound to incur this investment; hence absence of project activity (i.e. the investment) does not lead to any continued baseline practice for PD within their scope whereas the continued operation of the project activity would continue to replace equivalent amount of electricity at grid. Hence, the same baseline as identified in the previous crediting period is still valid for the project. Therefore, the assessment of the changes in market characteristics is not required for the renewal of the project's crediting period.

Step 1.3: Assess whether the continuation of the use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested.

As explained in step 1.2, the baseline scenario was the electricity import/generation from the power plants connected to the electricity grid. Therefore, this condition is not applicable to the project activity.

Step 1.4: Assessment of the validity of the data and parameters

This step stipulates that "Where emission factors, values or emission benchmarks are used and determined only once for the crediting period, they should be updated, except if the emission factors, values or emission benchmarks are based on the historical situation at the site of the project activity prior to the implementation of the project and cannot be updated because the historical situation does not exist anymore as a result of the CDM project activity."

In the context of the present project activity the emission factor has been updated along with the approach used to calculate the emission factor.

Step 2: Update the current baseline and the data and parameters

As evident from the explanation provided above the baseline scenario remains unchanged. Only the approach used to calculate the baseline emission factor is updated as per the latest version available at the time of PDD submission for renewal. In line with the paragraph 305 of Project Standard version 09[29] of Clean Development Mechanism the impact of new relevant national and/or sectoral policies and circumstances on the baseline taking into account relevant EB guidance with regard to renewal of the crediting period at the time of requesting renewal of crediting period; and the correctness of the application of an approved baseline methodology for the

[29] https://cdm.unfccc.int/sunsetcms/storage/contents/stored-file-20150225165159970/reg_stan01.pdf

determination of the continued validity of the baseline or its update, and the estimation of emission reductions for the applicable crediting period.

Impact of the national and/or sectoral policies and circumstances upon the baseline scenario of the project activity

The Government of India enacted the Electricity Act in the year 2003 to harmonize and rationalize the provisions in the then existing laws. The Act consolidated the laws relating to generation, transmission, distribution, trading and use of electricity. With the Enactment of the act, the then existing laws viz, The Indian Electricity Act 1910, The Electricity Supply Act, 1948 and The Electricity Regulatory Commissions Act, 1998 were repealed. The Electricity Act 2003 was in force at the time of the completion of the baseline study for the registered PDD.

Section 3 of the said act required the Central Government to prepare the national electricity policy and tariff policy, in consultation with the State Governments and the Authority for development of the power system based on optimal utilization of resources such as coal, natural gas, nuclear substances or materials, hydro and renewable sources of energy. In accordance with the section 3 of the Electricity Act 2003, the Central Government notified the National Electricity Policy on 12th February 2005 which was in force at the time of completion of the baseline study as stated in the registered PDD of the project activity. This policy has not been revised since then and is currently in force as well.

In addition to the above policies, State Electricity Regulatory Commissions (SERCs) have announced preferential tariffs and Indian Renewable Energy Development Agency (IREDA) provides term loan assistance towards establishing biomass power projects. All these fiscal and financial incentives were in force at the time of completion of the baseline study for the registered PDD of the project activity and still continue to exist.

However, in spite of the financial incentives given by the government to renewable power projects in India the generation from the low cost must run resources connected to the Indian Grid has not increased to such an extent that this would lead to more than 50% contribution from the low cost must run resources towards the total generation from the Indian Grid.

The approved large-scale methodology, ACM0002 (Version 22), has been used to determine the baseline and the estimation of emission reductions for the applicable crediting period. As referred in the methodology "Tool 07: To calculate the emission factor for an electricity system[30]" (version 07.0) has been used to determine continued validity of the baseline based on combined margin (CM) calculations.

In light of the above discussion, it is to be concluded that in accordance with relevant guidelines stipulated in the Project Standard of clean development mechanism para 305, national and/or sectoral policies and circumstances had been considered towards

[30] https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf

formulating the OM & BM baseline scenario. Hence the baseline scenario as applied for the present project activity remains justified.

In the absence of the project activity, the equivalent amount of power would have been supplied by the Indian grid which is fed mainly by fossil fuel fired plants. In the absence of the project activity, the equivalent amount of power would have been drawn from the Indian grid. Hence, the baseline for the project activity is the equivalent amount of power from the Indian grid.

The combined margin ($EF_{grid,y}$) is the result of a weighted average of two emission factor pertaining to the electricity system: the operating margin (OM) and build margin (BM). Calculations for this combined margin must be based on data from an official source (where available) and made publicly available. The combined margin of the Indian grid used for the project activity is as follows:

Parameter	Value	Nomenclature	Sources
$EF_{grid, CM,y}$	0.9352 tCO_2/MWh	Combined margin CO_2 emission factor for the project electricity system in year y	Calculated as the weighted average of the operating margin (0.75) & build margin (0.25) values, sourced from Baseline CO_2 Emission Database, Version 19.0[31], November 2023 published by Central Electricity Authority (CEA), Government of India
$EF_{grid, OM,y}$	0.9580 tCO_2/MWh	Operating margin CO_2 emission factor for the project electricity system in year y	Calculated as the last 3 years (2020-21 and 2021-22 and 2022-23) generation-weighted average, sourced from Baseline CO_2 Emission Database, Version 19.0[32], November 2023 published by Central Electricity Authority (CEA), Government of India
$EF_{grid, BM,y}$	0.8670 tCO_2/MWh	Build margin CO_2 emission factor for the project electricity system in year y	Baseline CO_2 Emission Database, Version 19.0[33], November 2023 published by Central Electricity Authority (CEA), Government of India

The grid emission factor is fixed ex-ante and remains constant throughout the crediting period.

Baseline emissions include only CO_2 emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity. The methodology

[31] https://cea.nic.in/wp-content/uploads/baseline/2024/01/User_Guide__Version_19.0.pdf
[32] https://cea.nic.in/wp-content/uploads/baseline/2024/01/User_Guide__Version_19.0.pdf
[33] https://cea.nic.in/wp-content/uploads/baseline/2024/01/User_Guide__Version_19.0.pdf

assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid connected power plants. The baseline emissions are to be calculated as follows:

$$\mathbf{BE_y = EG_{PJ,y} \times EF_{grid,y}}$$

Where:
BE_y = Baseline emissions in year y (tCO_2e/yr)
$EG_{PJ,y}$ = Quantity of net electricity generation supplied by the project plant/unit in year y in MWh (MWh/yr)
$EF_{grid,y}$ = Combined margin CO_2 emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO_2/MWh)

As per methodology, combined grid emission factor as per the "Tool to calculate the emission factor for an electricity system" version 7.0 is calculated as below. Baseline Database for the Indian Power Sector, Version 18.0, December 2022[34] published by Central Electricity Authority (CEA),Government of India has been used for the calculation of emission reduction.

As per Methodological tool: Tool to calculate the emission factor for an electricity system (Version 07.0, EB 100, Annex 4), following six steps have been followed:

Step 1: Identify the relevant electricity systems;
Step 2: Choose whether to include off-grid power plants in the project electricity system(optional);
Step 3: Select a method to determine the operating margin (OM);
Step 4: Calculate the operating margin emission factor according to the selected method;
Step 5: Calculate the build margin (BM) emission factor;
Step 6: Calculate the combined margin (CM) emission factor.

Step 1: Identify the relevant electricity systems
As described in tool "For determining the electricity emission factors, identify the relevant project electricity system. Similarly, identify any connected electricity systems". It also states that "If the DNA of the host country has published a delineation of the project electricity system and connected electricity systems, these delineations should be used". Keeping this into consideration, the Central Electricity Authority (CEA), Government of India has divided the Indian Power Sector into five regional grids viz. Northern, Eastern, Western, North-eastern and Southern. However since August 2006, however, all regional grids except the Southern Grid had been integrated and were operating in synchronous mode, i.e. at same frequency. Consequently, the Northern, Eastern, Western and North-Eastern grids were treated as a single grid named as NEWNE grid from FY 2007-08 onwards for the purpose of this CO_2 Baseline Database. As of 31 December 2013, the Southern grid has also been synchronized with the NEWNE grid, hence forming one unified Indian Grid. Since the

[34] https://cea.nic.in/wp-content/uploads/baseline/2023/01/Approved_report_emission__2021_22.pdf

project supplies electricity to the Indian grid, emissions generated due to the electricity generated by the Indian grid as per CM calculations will serve as the baseline for this project.

Table: Geographical Scope of Indian Electricity Grid

Northern	**Eastern**	**Western**	**North-Eastern**	**Southern**
Chandigarh	Bihar	Chhattisgarh	Arunachal Pradesh	Andhra Pradesh
Delhi	Jharkhand	Gujarat	Assam	Karnataka
Haryana	Orissa	Daman & Diu	Manipur	Kerala
HimachalPradesh	West Bengal	Dadar & Nagar Haveli	Meghalaya	Tamil Nadu
Jammu &Kashmir	Sikkim	Madhya Pradesh	Mizoram	Telangana
Punjab	Andaman & Nicobar	Maharashtra	Nagaland	Puducherry
Rajasthan	Goa	Tripura	Lakshadweep	
Uttar Pradesh				
Uttarakhand				

Step 2: Choose whether to include off-grid power plants in the project electricity system (optional)

Project participants may choose between the following two options to calculate the operating margin and build margin emission factor:
Option I: Only grid power plants are included in the calculation.
Option II: Both grid power plants and off-grid power plants are included in the calculation.
The Project Participant has chosen only grid power plants in the calculation.

Step 3: Select a method to determine the operating margin (OM)
The calculation of the operating margin emission factor ($EF_{grid,y}$) is based on one of the following methods, which are described under Step 4:

A- Simple OM; or
B- Simple adjusted OM; or
C- Dispatch data analysis OM; or
D- Average OM

The data required to calculate Simple adjusted OM and Dispatch data analysis OM is not possible due to lack of availability of data to project developers. The choice of other two options for calculating operating margin emission factor depends on generation of electricity from low-cost/ must-run sources. In the context of the methodology low cost/must run resources typically include hydro, geothermal, Solar, low-cost biomass, nuclear and solar generation.

Share of Must-Run (Hydro/Nuclear) (% of Net Generation)

	2016-17	**2017-18**	**2018-19**	**2019-20**	**2020-21**	**2021-22**
India	14.6%	14.3%	14.5%	17.0%	16.5%	15.8%

Data Source: Central Electricity Authority (CEA) database Version 18, Dec 2022[18]
The above data clearly shows that the percentage of total grid generation by low-cost/ must-run plants (on the basis of average of five most recent years) for the Indian grid

is less than 50 % of the total generation. Thus the Average OM method cannot be applied, as low cost/must run resources constitute less than 50% of total grid generation.
The simple OM emission factor is calculated as the generation-weighted average CO_2 emissions per unit net electricity generation (tCO_2/MWh) of all generating power plants serving the system, not including low-cost/must-run power plants/units.
For the simple OM, the simple adjusted OM and the average OM, the emissions factor can be calculated using either of the two following data vintages:
Ex-ante option: if the ex-ante option is chosen, the emission factor is determined once at the validation stage, thus no monitoring and recalculation of the emissions factor during the crediting period is required.
OR
Ex-post option: if the ex-post option is chosen, the emission factor is determined for the year in which the project activity displaces grid electricity, requiring the emissions factor to be updated annually during monitoring.
PP has chosen ex-ante option for calculation of Simple OM emission factor using a 3-year generation-weighted average, based on the most recent data available at the time of submission of the PD to the VVB for validation.
OM determined at validation stage will be the same throughout the crediting period. There will be no requirement to monitor & recalculate the emission factor during the crediting period.

Step 4: Calculate the operating margin emission factor ($EF_{grid,OM,y}$) according to the selected method
The operating margin emission factor has been calculated using a 3 year data vintage:

Net Generation in Operating Margin (GWh) (incl. Imports)			
	2020-21	2021-22	2022-23
Indian Grids	958,218	1,035,672	1,117,845.660

Simple Operating Margin (tCO2/MWh) (incl. Imports)			
	2020-21	2021-22	2022-23
Indian Grids	0.9402	0.9605	0.9710

Weighted Generation Operating Margin	
Indian Grids	0.9580

Step 5: Calculate the build margin (BM) emission factor ($EF_{grid,BM,y}$)
As per Methodological tool: "Tool to calculate the emission factor for an electricity system" (Version 07.0, EB 100, Annex 4) para 79:
In terms of vintage of data, project participants can choose between one of the following two options:
(a) Option 1 - for the first crediting period, calculate the build margin emission factor

ex ante based on the most recent information available on units already built for sample group m at the time of PD submission to the VVB for validation. For the second crediting period, the build margin emission factor should be updated based on the most recent information available on units already built at the time of submission of the request for renewal of the crediting period to the VVB. For the third crediting period, the build margin emission factor calculated for the second crediting period should be used. This option does not require monitoring the emission factor during the crediting period.

(b) Option 2 - For the first crediting period, the build margin emission factor shall be updated annually, ex post, including those units built up to the year of registration of the project activity or, if information up to the year of registration is not yet available, including those units built up to the latest year for which information is available. For the second crediting period, the build margin emissions factor shall be calculated ex ante, as described in Option 1 above. For the third crediting period, the build margin emission factor calculated for the second crediting period should be used. Option 1 as described above is chosen by PD to calculate the build margin emission factor for the project activity. BM is calculated ex-ante based on the most recent information available at the time of submission of PD and is fixed for the entire crediting period.

Build Margin (tCO2/MWh) (not adjusted for imports)	
	2022-23
Indian Grids	0.8670

Step 6: Calculate the combined margin (CM) emission factor ($EF_{grid,y}$)

As per Methodological tool: "Tool to calculate the emission factor for an electricity system" (Version 07.0, EB 100, Annex 4) para 79:
The calculation of the combined margin (CM) emission factor ($EF_{grid,y}$) is based on one of the following methods:

(a) Weighted average CM; or
(b) Simplified CM

PP has chosen option (a) i.e weighted average CM to calculate the combined margin emission factor for the project activity.
The combined margin emissions factor is calculated as follows:
$EF_{grid,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$
Where:
$EF_{grid,BM,y}$ = Build margin CO_2 emission factor in year y (t CO_2/MWh)
$EF_{grid,OM,y}$ = Operating margin CO_2 emission factor in year y (t CO_2/MWh)
W_{OM} = Weighting of operating margin emissions factor (per cent)
W_{BM} = Weighting of build margin emissions factor (per cent)
The following default values should be used for W_{OM} and W_{BM}:
Solar and solar power generation project activities: W_{OM}= 0.75 and W_{BM}= 0.25 (owing to their intermittent and non-dispatchable nature) for the first crediting period and for subsequent crediting periods. Since project activity is of Solar power generation, the above weightage has been considered for OM and BM.

Therefore,
$EF_{grid,y}$ = 0.9580 * 0.75 + 0.8670 * 0.25
= **0.9352 tCO_2e/MWh**

Comparision of validity of the original/current baseline

Parameter	Current applied value	Previous value
$EF_{grid,y}$	0.9352	0.9777
$EF_{grid, OM,y}$	0.9580	0.9941
$EF_{grid, BM,y}$	0.8670	0.9285

At the time of start of crediting period i.e. 03/08/2017 the CEA database version 11.0[35] was applicable and combined margin emission factor as 0.9777. According to the recently released CEA database version 19.0[36] , the emission factor is 0.9352. Hence the more conservative value is 0.9352 and thus the same has been applied for during the crediting period renewal of the project activity.

The baseline emission factor is calculated using the combined margin approach as described in Step 6 above:
Therefore,

$EF_y = EF_{grid,y}$ = 0.9352 tCO_2/MWh.
BEy = 31,615.71* 0.9352
= 29,567 tCO_2e (Roundown values)

B.5. Demonstration of additionality

This project is already registered under CDM with reference no 10393[37] and completed its first crediting period. There is no change in the additionality of the project. So, the additionality of the project can be referred from the section B.5 of the registered PDD. The web link of the same is given below:
https://cdm.unfccc.int/Projects/DB/Applus1501710196.92

Further in accordance with para 4.1.52 of GS4GG Principle and Requirements version 1.2 "Ongoing Financial Need shall be demonstrated at Design Certification Renewal".

B.5.1 Prior Consideration

[35] http://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver11.pdf

[36] https://cea.nic.in/wp-content/uploads/baseline/2024/01/User_Guide__Version_19.0.pdf
[37] https://cdm.unfccc.int/Projects/DB/Applus1501710196.92

This project is registered under CDM with reference no 10393[38]. Please refer section B.5 of the registered PDD for the information on prior consideration of the project.

B.5.2 Ongoing Financial Need

GS Impact certifications are crucial for the project's positive return and its survival. Initially, carbon credits were priced higher during the registration period, but their cost has substantially decreased in recent years. As a result, generating sufficient carbon revenue has become increasingly vital for sustaining the project. Unfortunately, various incidents, including the inability to realize revenue from the sale of GSVER, burdened the project proponent, leading to financial difficulties and challenges in meeting verification and certification costs. The emergence of COVID further complicated the financial situation, imposing additional constraints on the project.

Monitoring period		Total Number of Days	Estimated Generation (MWh)	Actual Generation (MWh)	Percentage of less generation
From	To				
03-08-17	30-09-19	788	69,974.40	62,113.00	-11.23%
01-10-19	31-03-21	547	48,573.60	40,278.60	-17.08%
01-04-21	02-08-22	488	43,334.40	39,380.00	-9.13%
Total		1823	161,882.40	141,771.60	-12.42%

The project activity's generation amount has been lower than the estimated in IRR since its operation, which can be confirmed through the previous verification of the project activity.The estimated PLF considered at the time of additionality demonstration at the time of design certification of the project activity was 18.50% but at actual over the previous crediting period is the average Plant Load Factor achieved was 16.20% which is 12.42% less than that of the estimated PLF at the time of investment decision date.

The project described its investment analysis during registration under the UNFCCC CDM mechanism, which applies to the GS (Gold Standard) Project Cycle as well.The power is sold at a fixed rate as per the Power Purchase Agreement (PPA), and income from GS certification will be used for loan repayment,improving infrastructure facility and development etc. To sustain the project, debt repayment remains crucial. The realization of carbon revenue is, therefore, essential to ensure the financial sustainability of the project and contribute to sustainable development. Despite facing several barriers, the project developer has decided to continue the project with support from carbon revenue, given its positive contributions to the grid, job opportunities, and economic benefits for neighboring communities. Additionally, since the project owner has taken significant loans for implementation, the ongoing and additional revenues from the carbon mechanism will play a crucial role in sustaining the project and achieving its contributions towards SDGs.

[38] https://cdm.unfccc.int/Projects/DB/Applus1501710196.92

Revenue from previous crediting period		
Generation during first crediting period	141,771.60	MWh
Tarrif rate as per PPA	5.74	Rs/ KWh
Revenue	813.77	Million INR
Generation based Incentive	0	Rs/KWh
Total revenue from CP1	813.77	Million INR
Total revenue from carbon credits in CP 1	8.53	Million INR
Total revenue for the project activity	822.30	Million INR
Total expected revenue from CP1	930.22	Million INR
Percetage of less revenue generated than expected	-11.60%	

At the time of registration of the project activity into the CDM and GS Mechanism, the equity IRR of the project activity was calculated considering the entire lifetime of 25 years for the project. Thus, considering the revenue model, depreciation and all the other ongoing expenses of the project activity the equity IRR of the project activity was found to be within benchmark defined at the time of the registration of the project into GS mechanism. For the previous crediting Period 03/08/2017 to 02/08/2022 considering the tariff Rate of INR 5.74/KWh the revenue was estimated from the sale of electricity to the Indian Grid was INR 930.22 million. But as per the actual generation of electricity for the entire crediting period of 03/08/2017 to 02/08/2022, the project generated a revenue of INR 813.77 million from the sale of electricity to the Indian Grid. Thus, although the project activity was under serious consideration of carbon revenue, considering the estimated revenue of INR 930.22 million from sale of electricity, the actual revenue is much lower (INR 813.77) than the estimation of revenue.The revenue form carbon credit is INR 8.53 million. Hence, the total revenue from the previous crediting period is INR 822.30 million which is less than the estimated that is INR 930.22 million. An OFN sheet has also been submitted to the VVB that clearly mentions the same.

Also, the project is not receiving any Official Development Assistance to sustain the project activity.

The submission of project is delayed due to unavoidable circumstances and PD had requested the deviation (DEV_512[39]) for the same but it was not approved by the Gold standard. Resulting in the PD already facing a loss of carbon credits for the delayed period.

Therefore, carbon revenues are crucial for the Project and in absence of GS revenue there will be additional burden on the project owner and the revenue from carbon finance will help marginally in capital increment repayment and thus will play a crucial role for the project survival.

[39] https://globalgoals.goldstandard.org/standards/DEV_512-Deviation-Request.pdf

Though there are several barriers Infront of the project proponent but project proponent has decided to continue the project activity with carbon revenue support as it is contributing clean power in the grid as well as creating job opportunity and provides other economic benefits to neighbouring communities.

Thus, it is clearly evident that continue run the project is unsustainable without supporting carbon revenue. Hence, carbon revenue is therefore essential to ensure the financial sustainability of the project.

B.6. Sustainable Development Goals (SDG) outcomes

Relevant Target/Indicator for each of the three SDGs

		SDG IMPACT
SUSTAINABLE DEVELOPMENT GOALS TARGETED	MOST RELEVANT SDG TARGET	**INDICATOR (PROPOSED OR SDG INDICATOR)**
13 Climate Action (mandatory)	13.2 Integrate climate change measures into national policies, strategies and planning	Impact- Emission Reductions 13.2.2 Total greenhouse gas emissions per year)
SDG 7– Affordable and Clean Energy	7.2: By 2030, increase substantially the share of renewable energy in the global energy mix	Impact- MWh of renewable energy generation Indicator: 7.2.1 Renewable Energy share in total final energy consumption
SDG 8 – Decent Work and Economic Growth	8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value 8.6: By 2020, substantially reduce the proportion of youth not in employment, education or training	Impact- Employment generated through project Indicator: 8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities Impact- Number of trainings Indicator: 8.6.1 Proportion of youth (aged 15-24 years) not in education, employment or training.

B.6.1 Explanation of methodological choices/approaches for estimating the SDG Impact

SDG Goal	Methodological choices/approaches for estimating the SDG outcome
SDG 13- Climate Action (mandatory)	**Measurement Method:** - Electricity produced and supplied to the grid is monitored through energy meter. Net electricity will be calculated by state electricity board and O&M operator on monthly basis and provided in monthly report or equivalent. The other parameters used for net electricity supplied to grid are mentioned in monitoring plan. **QA/QC Process:** This parameter is monitored monthly and value of parameter will be cross checked with invoices. The meters will be calibrated on regular frequency.
SDG 7– Affordable and Clean Energy	**Measurement Method:** - Training and employment generation is monitored through training records, staff register or letter from O&M contractor for training and employment details or HSE/HR records. **QA/QC Process:** This parameter is based on records, data and no any QA/QC procedure required. The VVB can confirm this parameter with interview with PP or Site in charge or employees for training and employment generation
SDG 8 – Decent Work and Economic Growth	**Measurement Method:** - The emission reduction parameter is calculated as product of net electricity supplied to grid and grid emission factor. The grid emission factor is ex-ante parameter and determined based on data obtained from "CO_2 Baseline Database for Indian Power Sector" version 18, published by the Central Electricity Authority, Ministry of Power, Government of India. This is in line with "Tool to calculate the emission factor for an electricity system, version 7.0." The emission reductions are calculated as per registered PDD and as per methodology requirement. The equations used for calculating the net benefit is as described below – $\mathbf{ER_Y = BE_Y - PE_Y - LE_Y}$ Where, ER_Y = Emission Reduction in tCO_2/year BE_Y = Baseline emission in tCO_2/year PE_Y = Project emissions in tCO_2/year LE_Y = Leakage Emissions in tCO_2/year Also, $BE_y = EG_{PJ,y} * EF_{grid,y}$ Where, $EG_{PJ,y}$ = Quantity of net electricity generation supplied by the project plant/unit in year y in MWh $EF_{grid,y}$ = Baseline emission factor

	QA/QC Process: This parameter is calculated, and no any QA/QC procedure required.

B.6.2 Data and parameters fixed ex ante

SDG13

Data/parameter	$EF_{grid,OM,y}$
Unit	tCO_2/MWh
Description	Operating Margin CO_2 emission factor in year y
Source of data	Calculated from CEA database, Version 19.0, November 2023
Value(s) applied	0.9580
Choice of data or Measurement methods and procedures	Calculated as the last 3 years (2020-21, 2021-22 and 2022-23) generation-weighted average, sourced from Baseline CO_2 Emission Database, Version 19.0, November 2023 published by Central Electricity Authority (CEA), Government of India[40].
Purpose of data	For the calculation of the Baseline Emission
Additional comment	This parameter is fixed ex-ante for the entire crediting period.

Data/parameter	$EF_{grid, BM,y}$
Unit	tCO_2/MWh
Description	Build Margin CO_2 emission factor in year y
Source of data	Calculated from CEA database, Version 19.0, November 2023
Value(s) applied	0.8670

[40] https://cea.nic.in/wp-content/uploads/baseline/2024/01/User_Guide__Version_19.0.pdf

Choice of data or Measurement methods and procedures	BM is calculated ex-ante based on the most recent information available at the time of submission of PDD and is fixed for the entire crediting period. The data is obtained from Baseline CO_2 Emission Database, Version 19.0, November 2023 published by Central Electricity Authority (CEA), Government of India[41].
Purpose of data	For the calculation of the Baseline Emission
Additional comment	This parameter is fixed ex-ante for the entire crediting period.

Data/parameter	$EF_{grid,CM,y}$
Unit	tCO_2/MWh
Description	Combined Margin CO_2 emission factor in year y
Source of data	CO_2 Emission Database, Version 19.0, November 2023 published by Central Electricity Authority (CEA), Government of India[42].
Value(s) applied	0.9352
Choice of data or Measurement methods and procedures	The combined margin emissions factor is calculated as follows: $EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$ Where, $EF_{grid,BM,y}$= Build margin CO_2 emission factor in year y (tCO_2/MWh) $EF_{grid,OM,y}$= Operating margin CO_2 emission factor in year y (tCO_2/MWh) W_{OM} = Weighting of operating margin emissions factor (%) = 75% W_{BM}= Weighting of build margin emissions factor (%) = 25%
Purpose of data	For the calculation of the Baseline Emission
Additional comment	This parameter is fixed ex-ante for the entire crediting period.

[41] https://cea.nic.in/wp-content/uploads/baseline/2024/01/User_Guide__Version_19.0.pdf
[42] https://cea.nic.in/wp-content/uploads/baseline/2024/01/User_Guide__Version_19.0.pdf

B.6.3 Ex ante estimation of SDG Impact

SDG 7: Affordable and Clean Energy
The project activity will generate Affordable and Clean Energy of 31,615.71 MWh per year.

SDG 8: Decent Work and Economic Growth
The project leads to employment opportunities and provides employment to around 10 persons per year. Also, project activity improves the quality of employment by giving training to employee. Thus, minimum 1 training per year will be conducted by the project activity.

SDG 13: Climate Action
For a given year, the emission reductions contributed by the project activity (ERy) is calculated as follows:
$ER_Y = BE_Y - PE_Y$

Where,
ER_Y = Emission Reduction in tCO_2/year
BE_Y = Baseline emission in tCO_2/year
PE_Y = Project emissions in tCO_2/year

Baseline Emission (BE_Y)

As per para 57 equation 11, the baseline emissions are the product of electrical energy baseline $EG_{PJ,y}$ expressed in MWh of electricity produced by the renewable generating unit multiplied by an emission factor.

$BE_y = EG_{PJ,y} * EF_{grid,cm,y}$

Where,

BE_y =	Baseline emissions in year y (t CO2/yr)
$EG_{PJ,y}$ =	Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)
$EF_{grid,cm,y}$ =	Combined margin CO2 emission factor for grid connected power generation in year y calculated using TOOL07 (t CO2/MWh)

$EF_{grid,cm,y}$ = Baseline emission factor

= 0.9352 tCO_2/MWh

BE_y = 31,615.71*0.9352 tCO_2/year

= 29,567 tCO_2/year (This is the final value calculated also considering the degradation factor of 0.7% in each year, which is clearly described in the ER-estimation sheet submitted along with this PDD)

As this is a simple Solar project

Hence,
$ER_y = BE_y$

Therefore, ER_y = 29,567 tCO_2/year (rounddown values)

B.6.4 Summary of ex ante estimates of each SDG Impact

SDG 7

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
03/08/2022 to 31/12/2022	0	13,314.94	13,314.94
01/01/2023 to 31/12/2023	0	31,958.23	31,958.23
01/01/2024 to 31/12/2024	0	31,818.28	31,818.28
01/01/2025 to 31/12/2025	0	31,504.46	31,504.46
01/01/2026 to 31/12/2026	0	31,277.58	31,277.58
01/01/2027 to 02/08/2027	0	18,205.07	18,205.07
Total	0	158,078.56	158,078.56
Total number of crediting years		5	
Annual average over the crediting period	0	31,615.71	31,615.71

Since project activity is renewable electricity generation, the quantity of Affordable and clean energy is mentioned under project estimate. In baseline, no any renewable energy generation, hence mentioned as zero.

SDG 13

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
03/08/2022 to 31/12/2022	12,452	0	12,452
01/01/2023 to 31/12/2023	29,887	0	29,887
01/01/2024 to 31/12/2024	29,756	0	29,756

01/01/2025 to 31/12/2025	29,462	0	29,462
01/01/2026 to 31/12/2026	29,250	0	29,250
01/01/2027 to 02/08/2027	17,025	0	17,025
Total	147,832	0	147,832
Total number of crediting years		5	
Annual average over the crediting period	29,567	0	29,567

SDG 8

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
03/08/2022 to 31/12/2022	0	10 people employed/year and 1 training conducted/year	10 people employed/year and 1 training conducted/year
01/01/2023 to 31/12/2023	0	10 people employed/year and 1 training conducted/year	10 people employed/year and 1 training conducted/year
01/01/2024 to 31/12/2024	0	10 people employed/year and 1 training conducted/year	10 people employed/year and 1 training conducted/year
01/01/2025 to 31/12/2025	0	10 people employed/year and 1 training conducted/year	10 people employed/year and 1 training conducted/year
01/01/2026 to 31/12/2026	0	10 people employed/year and 1 training conducted/year	10 people employed/year and 1 training conducted/year

01/01/2027 to 02/08/2027	0	10 people employed/year and 1 training conducted/year	10 people employed/year and 1 training conducted/year
Total	0	50 people employed/year and 5 training conducted/year	50 people employed/year and 5 training conducted/year
Total number of crediting years		5	
Annual average over the crediting period	0	10 people employed/year and 1 training conducted/year	10 people employed/year and 1 training conducted/year

As described clearly in the above table, The project leads to employment opportunities and provides employment to around 10 people annually. Also, project activity improves the quality of employment by giving training to employee. Thus, 1 training per annum will be conducted by the project activity.

B.7. Monitoring plan

B.7.1 Data and parameters to be monitored

SDG 7 (Indicators 7.2.1)

Data / Parameter	**$EG_{PJ, y}$**
Unit	MWh/year
Description	Quantity of net electricity generation supplied by the project plant/unit in year y in MWh
Source of data	Monthly joint meter reading reports
Value(s) applied	31,615.71 (estimated)
Measurement methods and procedures	Net power exported to grid is calculated as a difference of export and import being recorded in monthly JMR reports. $EG_{PJ, y} = EG_{export} - EG_{import}$ Electricity exported/imported to the grid is in kWh. However, for the calculation purpose electricity exported is converted in MWh. Electricity exported/imported to the grid is in kWh. However, for the calculation purpose electricity exported is converted in MWh.

<table>
<tr><td></td><td>The electricity exported / supplied by the project activity is measured through meters (ABT Meters) having accuracy class of 0.2s. It is difference of export and import of project activity. For detailed schedule of calibration please refer Annexure 1
Since the project activity is Green field project, the $EG_{PJ, y}$ is same as $EG_{facility, y}$.</td></tr>
<tr><td>Monitoring frequency</td><td>Continuous measurement & monthly recording</td></tr>
<tr><td>QA/QC procedures</td><td>The meters is approved, tested & sealed by the State Utility. The meters are in the custody of State Utility. The frequency of calibration is once in 5 years[43]. The monthly electricity supplied/exported by the project activity in the JMR report is cross checked with the monthly invoices of sale. In the absence or delay in the meter calibration appropriate Guidelines are applied appropriately to confirm the conservativeness of metering.
The metering arrangement, accuracy class of meters, calibration frequency is under control of state electricity board and PP do not have any control on it.
The Details of the energy meters is as stated below –

<table>
<tr><th>Type of meter</th><th>Serial no.</th><th>Make</th><th>Accuracy Class</th><th>Date of Calibration/ testing</th><th>Valid upto</th></tr>
<tr><td>Main meter</td><td>UKD03332</td><td>Secure</td><td>0.2s</td><td>28/05/2022</td><td>27/05/2027</td></tr>
</table>
</td></tr>
</table>

[43] http://www.cbip.org/MIR/1%20DATA/CEA%201.pdf

	Check Meter	UKD03333	Secure	0.2s	28/05/2022	27/05/2027
Purpose of data	To Monitor the SDG 7 Indicator					
Additional comment	Data will be archived in paper & electronic form for two years after the end of crediting period or of the last issuance of GSVERs for this project activity, whichever occurs later.					

SDG 13(Indicators 13.2.1)

Data / Parameter	**ER_y**
Unit	tCO_2e
Description	Emission reductions achieved per year
Source of data	As per Estimated ER sheet. During the verification, the results shall be obtained from the Actual ER sheet.
Value(s) applied	29,567 (estimated)
Measurement methods and procedures	The baseline emissions are the product of electrical energy baseline $EG_{PJ,y}$ expressed in MWh of electricity produced by the renewable generating unit multiplied by an emission factor.
Monitoring frequency	Continuous measurement & monthly recording
QA/QC procedures	Not Applicable.
Purpose of data	To Monitor the SDG 13 Indicator
Additional comment	Data is archived in paper & electronic form for two years after the end of crediting period or of the last issuance of GSVERs for this project activity, whichever occurs later.

SDG 8 (Indicators 8.5.1)

Data / Parameter	Quantitative employment and income generation
Unit	Number
Description	Number of people employed directly due to the project activity
Source of data	Plant records or the training records for all the employees/ Letter from O&M contractor for employment generation/ DOE interview with employees, local stakeholders etc.

Value(s) applied	10 (Average Value based upon the employment generation)
Measurement methods and procedures	The total number of persons working in the plant would be calculated based on the daily log available at site. This parameter also monitor number of men/women employed by the project activity. The project activity ensures that "equal pay for work of equal value" for both men and women and there is no any discrimination against women. "The employment covers number of men and number of women employed by the project activity. The job is of type temporary/permanent or skilled/unskilled, etc. Also, it is ensued that peoples gets equal payment for equal work. The payments are based on work and no any gender inequality for payment for work of equal value. The average hourly earnings of a person is calculated by considering 8 hours per day working as per Indian standards and is depicted below. For e.g, a person is getting a monthly salary of INR 20,982; then his hourly earnings will be calculated as follows: =20,982/(30*8)= INR 87.42 The hourly wages can be checked from the notification from the order published by the Chief Labour Commissioner (Central)[44]. As per the notification from Chief Labour Commissioner, for Skilled workers working in C Category of cities[45], the daily wage is 342, and accordingly the average hourly earnings comes out to be INR 42.75 Further the same has been crosschecked by the VVB by means of Salary Slips. The Project thus provides employment opportunities and pays salaries and welfares and also helps to increase the income and living standards of the employees. Preference has been given to the local people for employment in skilled and unskilled jobs based upon their skills and competency.

[44] https://clc.gov.in/clc/min-wages
[45] https://clc.gov.in/clc/node/568

Monitoring frequency	Monthly monitoring and annual compilation
QA/QC procedures	The number of persons employed would be mentioned in the plant register, which can be crossed checked with attendance register.
Purpose of data	To Monitor the SDG 8 Indicator
Additional comment	-

SDG 8 (Indicators 8.6.1)

Data / Parameter	**Quality of Employment**
Unit	Number
Description	Training of Staff
Source of data	Plant records or The training records for all the employees/Letter from HR Dept. for employment generation/ DOE interview with employees, local stakeholders etc
Value(s) applied	Minimum 1 training per year
Measurement methods and procedures	Together with the technology supplier, the Project organize training for the staff on the technology and the monitoring of the plant operation, and the emergency and safety procedures.
Monitoring frequency	Annual
QA/QC procedures	The training records for all the employees
Purpose of data	To Monitor the SDG 8 Indicator
Additional comment	The data will be kept for two years after the crediting period or from last issuance.

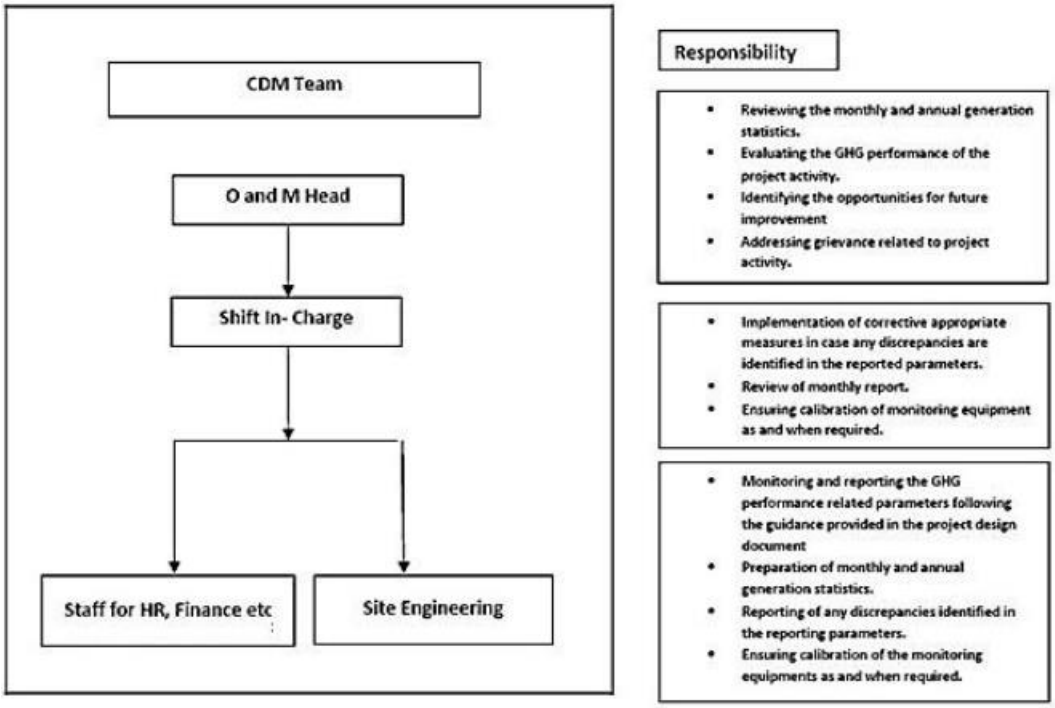
B.7.2 Sampling plan

As this is a simple renewable project .Hence, no sampling is required

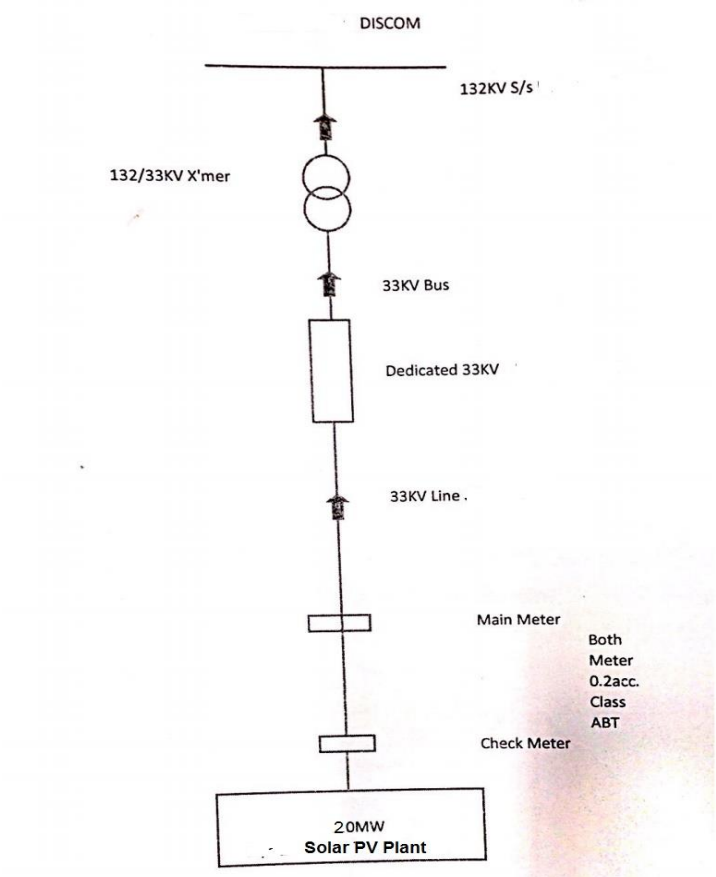
B.7.3 Other elements of monitoring plan

The monitoring plan is developed in accordance with the modalities and procedures for GS project activities and is proposed for grid-connected solar power project being implemented at site. The monitoring plan, which will be implemented by the project participant describes about the monitoring organisation, parameters to be monitored, monitoring practices, quality assurance, quality control procedures, data storage and archiving.

The authority and responsibility for registration, monitoring, measurement, reporting and reviewing of the data rests with the project participant. PP proposed the following structure for data monitoring, collection, data archiving and calibration of equipments for this project activity. The team comprises of the following members:



The single line diagram depicting the metering locations has been represented in below figure:



Data Measurement
The project continuously measures export and import energy using meters. Authorized officers from the SEB verify meter readings monthly in the presence of a representative from PP. Based on the Meter Reading Statement provided to Electryone Power Private Limited formerly known as Emami Power Ltd, invoices are raised. These invoices can then be used to cross-check the meter readings taken for the project activity.

Data collection and archiving
Readings from meters will be collected in the presence of the plant in-charge. Export and Import data would be recorded and stored in logs as well as in electronic form on a daily basis. The records are checked periodically by the Plant Manager and discussed thoroughly with the plantsupervisor. The period of storage of the monitored data will be 2 years after the end of crediting period or till the last issuance of VERs for the project activity whichever occurs later.

Emergency preparedness
The project activity is designed to avoid any unforeseen activities that could lead to significant emissions. Due to this focus on minimizing emissions, emergency preparedness for data monitoring is not anticipated to be necessary.

Personnel training
The staff is being trained to ensure proper functioning of the project activity and proper monitoring of emission reductions. The plant helpers are undergoing training in equipment operation, data recording, report writing, operation and maintenance, and emergency procedures in compliance with the monitoring plan.

In case of mismatch between billing (JMR) period cycle and monitoring period cycle, the daily generation electricity data will be used to calculate the electricity for specific period.

SECTION C. DURATION AND CREDITING PERIOD

C.1. Duration of project

C.1.1 Start date of project

Start date of the project activity is the date of Letter of Acceptance (LoA) with contractor as on 31/10/2016.

C.1.2 Expected operational lifetime of project

25 Years 00 Months

C.2. Crediting period of project

C.2.1 Start date of crediting period

Renewable crediting periods of 05 years 00 months have been opted for the project activity.The crediting period of the project is as follows:

First crediting period: 03/08/2017 to 02/08/2022
Second crediting period: 03/08/2022 to 02/08/2027
Third crediting period: 03/08/2027 to 02/08/2032

This is the second crediting period of the project activity.

Start date	03/08/2017
Second Crediting Period	03/08/2022-02/08/2027
Duration	5
Type	Renewable

C.2.2 Total length of crediting period

05 years 00 months (Renewable twice)

SECTION D. SUMMARY OF SAFEGUARDING PRINCIPLES AND GENDER SENSITIVE ASSESSMENT

D.1 Safeguarding Principles that will be monitored

A completed Safeguarding Principles Assessment is in Appendix 1, ongoing monitoring is summarised below.

PRINCIPLES	MITIGATION MEASURES ADDED TO THE MONITORING PLAN
Principle 1. Human Rights	Not applicable
Principle 2. Gender Equality	Not applicable
Principle 3. Community Health, Safety and Working Condition	Not applicable
Principle 4.1 Sites of Cultural and Historical Heritage	Not applicable
Principal 4.2 Forced Eviction and Displacement	Not applicable
Principle 4.3 Land Tenure	Not applicable
Principle 4.4 Indigenous people	Not applicable
Principle 5. Corruption	Not applicable
Principle 6.1 Labour Rights	Not applicable
Principle 6.2 Economic Consequences	Not applicable
Principle 7.1 Emissions	Not applicable

Principle 7.2 Energy Supply	Not applicable
Principle 8.1 Impact on Natural Water Patterns / Flows	Not applicable
Principle 8.2 Erosion and/or Water Body Instability	Not applicable
Principle 9.1 Landscape Modification and Soil	Not applicable
Principle 9.2 Vulnerability to Natural Disaster	Not applicable
Principle 9.3 Genetic Resources	Not applicable
Principle 9.4 Release of pollutants	Not applicable
Principle 9.5 Hazardous and Non-hazardous Waste	Not applicable
Principle 9.6 Pesticides & Fertilizers	Not applicable
Principle 9.7 Harvesting of forests	Not applicable
Principle 9.8 food	Not applicable
Principle 9.9 Animal husbandry	Not applicable
Principle 9.10 High Conservation Value Areas and Critical Habitats	Not applicable
Principle 9.11 Endangered Species	Not applicable

D.2. Assessment that project complies with GS4GG Gender Sensitive requirements

Question 1 - Explain how the project reflects the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?	As per Gold Standard Gender Policy, para 4.2, point (i) "Foundational gender-sensitive requirement – This strengthens Gold Standard's 'do no harm' approach and addresses safeguards to prevent or mitigate adverse impacts on women or men and girls and boys. Such action is mandatory for all projects seeking Gold

	Standard certification and includes compliance with the gender 'do no harm' safeguards, gender gap analysis and gender sensitive stakeholder consultations." The project is a renewable Solar PV based project and it is not a gender sensitive project because the project does not adversely impact women or men. PD have HR policy which mentions that, they do not differentiate between women and men. PD also conducted stakeholder meeting which was open for participation by all and both men and women had participated in the stakeholder meeting conducted. The HR policy of PD and the stakeholder meeting documents are submitted. Hence, it is established that, there is no gender discrimination by PD and that PD is strictly adhering with their policies.
Question 2 - Explain how the project aligns with existing country policies, strategies and best practices	India is party to "Convention on the Elimination of All Forms of Discrimination against Women" and the project is aligned with the labor policy. PD have HR policies in place which demonstrate that there is no gender discrimination. Also, PD is following best practices by having anti sexual harassment policy, whistle blower policy and CSR policy in place.

Question 3 - Is an Expert required for the Gender Safeguarding Principles & Requirements?	The Project shall complete the following gender assessment questions below: 1. Is there a possibility that the Project might reduce or put at risk women's access to or control of resources, entitlements and benefits? No, the Project being a solar project does not reduce access to or control of resources for women. Also, the PP have HR policies in place which demonstrate that women are treated equally. 2. Is there a possibility that the Project can adversely affect men and women in marginalised or vulnerable communities (e.g., potential increased burden on women or social isolation of men)? No, the Project beneficiaries in terms of employment and social upliftment of the area are common for both the gender. The project does not adversely affect men and women in marginalised or vulnerable communities. Employment opportunities have been provided by the PP to the local people from the nearby villages around the project site which in turn has improved the livelihood and living standards of the local people. 3. Is there a possibility that the Project might not take into account gender roles and the abilities of women or men to participate in the decisions/designs of the project's activities (such as lack of time, child care duties, low literacy or educational levels, or societal discrimination)? No, the HR policy of PP mentions that all employees are given equal opportunities for betterment irrespective of the gender and provides equal opportunity to women/ men to participate in the decisions of the project activities. 4. Does the Project take into account gender roles and the abilities of women or men to benefit from the Project's activities (e.g., Does the project criteria

	ensure that it includes minority groups or landless peoples)? Yes the project takes into account gender roles and abilities of women/men. Job profile is allocated based on the type of work to be carried out. The project takes into account gender roles and abilities of women/men. PP has provided employment to both the genders without any discrimination. Also, the HR policy of PP mentions that all employees are given equal opportunities for betterment irrespective of the gender. 5.Does the Project design contribute to an increase in women's workload that adds to their care responsibilities or that prevents them from engaging in other activities? No, the project activity does not contribute to increase in women's workload that adds to their care responsibilities or prevents them from engaging in other activities. The HR policy of PP mentions that all employees are given equal opportunities and also there is no discrimination. PP also have Anti sexual harassment policy for prevention of any sexual harassment and thus it can be justified that the project contribute towards increased participation of women workload and promotes their active participation. 6.Would the Project potentially reproduce or further deepen discrimination against women based on gender, for instance, regarding their full participation in designand implementation or access to opportunities and benefits? No, the project will not potentially reproduce or it will not deepen discrimination against women based on gender. The HR policy of PP mentions that all employees are given equal opportunities for betterment irrespective of the gender. Thus it can be justified that, the project contribute towards increased participation of women workload and promotes their active participation.

	7.Would the Project potentially limit women's ability to use, develop and protect natural resources, taking into account different roles and priorities of women and men in accessing and managing environmental goods and services? No, the project will not limit women's ability to use, develop and protect natural resources. The HR policy of PP mentions that all employees are given equal opportunities for betterment irrespective of the gender. 8.Is there a likelihood that the proposed Project would expose women and girls to further risks or hazards? No, the project activity will not expose women and girls to further risk or hazards. The project does not involve in generation of Hazardous and Non- hazardous Waste. Standard health & safety procedures are followed at site during operation and maintenance. PP follows the National Policy on Safety, Health and Environment at work13, published by Ministry of Labour and Employment, Government of India. Also due to improved electricity availability the usage of fuel for lighting or heating needs would be reduced resulting in indoor air quality improvement. Thus from the above justifications it can be concluded that an expert opinion is not required to justify gender requirements for the project activity.

Question 4 - Is an Expert required to assist with Gender issues at the Stakeholder Consultation?	Expert was not required to assist with Gender issues at the stakeholder consultation. As per para 4.4 of the Gender Policy, the PD had organized a stakeholder consultation meeting for which the local people were invited irrespective of the gender and the locals were invited for the stakeholder meeting through public notice which was accessible for both the genders. The stakeholder consultation documents are provided from which it can be seen that there was participation from both the genders. In order to get continuous feedback from the local stakeholders, PD has also placed a grievance register at the site, which is accessible to all irrespective of gender, for recording any grievance/feedback about the project. The comments received in the grievance register, shall be resolved by the team of PD at the earliest.

SECTION E. SUMMARY OF LOCAL STAKEHOLDER CONSULTATION

E.1 Summary of stakeholder mitigation measures

The Local Stakeholder Meetings were organized for local stakeholder consultation and informed local stakeholder regarding the meeting. The followings are the local stakeholders for the project activity:

- Local community
- Local village administration
- Technology suppliers
- Local vendors

All the stakeholders have been invited through Public Notice to attend the stakeholders meeting.
The details of the Stakeholder Meetings are as follows:
Date of invitation – 01/09/2016
Date of Meeting – 09/09/2016
Location of Meeting – at project site

In the introductory speech, the representatives welcomed the gathering and given a brief about the project activity. Subsequent to the introductory speech, stakeholders were explained about the electricity generation from solar project is an environmental friendly power generation technology contributing to reduction in GHG emissions. They were also explained about the benefits of the solar power projects like, increasing energy availability and improving quality of power and its assistance to the local population by providing employment opportunities to both skilled & unskilled labours.

Summary of comments received

Meeting started with opening speech by representative of project participant. He introduced all guests on dais. The representative of project participant explained Technical aspects of project to stakeholders. After the detailed discussions, the session was open for questions from stakeholders.

The villagers raised various queries which have been summarised below:

Name of Stakeholder	Mohit Singh
Occupation	Farmer
1. Can we get free electricity? **Answer:** Investor cannot sell power directly. The power will be sold to grid. 2. Will it harm the crops? **Answer:** It will not harm the crops.	

Name of Stakeholder	Girish
Occupation	Villager
1. Will we get employment opportunity? **Answer:** Yes, employment opportunities will be developed and village people will be given preference. 2. Can we get free electricity? **Answer:** Project investor cannot sell power directly. The power is sold to grid. 3. Will it harm the farmers? **Answer:** It will not harm the farmers.	

Name of Stakeholder	Vijendra
Occupation	Villager
1. Will there be any problem to people? **Answer:** There will be no harm to people due to the project. 2. Will we get employment opportunity? **Answer:** Yes, employment will be generated and locals will be given preference.	

Name of Stakeholder	Mohit Singh
Occupation	Teacher
1. Will there be pollution from this project? **Answer:** There will be no pollution from this project. 2. Will it reduce the problem of power cut? **Answer:** The problem of power cut will reduce due to this project. 3. Will schools be opened? **Answer:** The investor will develop school for primary education.	

Name of Stakeholder	Vasu
Occupation	Shopkeeper
1. Can Electricity be generated at night from solar plant? **Answer:** Electricity cannot be generated at night from solar plant. 2. Will it cause any impact on rainfall?	

Answer: It will not have any impact on the rainfall. 3. Will it cause rise in temperature of surrounding? **Answer:** It will not cause increase in temperature.

Name of Stakeholder	Ajit
Occupation	Student
1. Will there be employment opportunity? **Answer:** Employment opportunity will be generated and the locals will be given preference. 2. Will there be road development? **Answer:** Roads will be developed near the project site. 3. Will it cause any problem to the people? **Answer:** It will not cause any problem to the people.	

Name of Stakeholder	Mohit Kumar
Occupation	Villager
1. Will it harm our crops? **Answer:** It will not harm the crops 2. Will this project use coal? **Answer:** This project will not use coal. 3. Will it improve the economic condition of the village? **Answer:** Yes, it will help to develop the economic condition of the village.	

Report on consideration of comments received
All the above queries have been suitably and satisfactorily replied / clarified by project participant's representatives. There were no major comments or protest raised by the stakeholders and they were totally in support for setting up of these kinds of projects in the region.

The meeting was concluded by vote of thanks to all the participants.

E.2 Final continuous input / grievance mechanism

METHOD	INCLUDE ALL DETAILS OF CHOSEN METHOD (S) SO THAT THEY MAY BE UNDERSTOOD AND, WHERE RELEVANT, USED BY READERS.

Continuous Input / Grievance Expression Process Book (mandatory)	Accessibility and Transparency: A designated grievance register must be readily available at the project site. This ensures open communication channels for stakeholders to voice their concerns and feedback. Continuous Monitoring and Addressing: A dedicated grievance cell will be established to consistently monitor the register. This cell will be responsible for reviewing issues raised by stakeholders and working towards their resolution Timely Response and Departmental Responsibility: The grievance cell will efficiently route each grievance to the relevant department best equipped to address the specific concern. This ensures a streamlined resolution process based on the nature of the grievance. Detailed Record Keeping: A comprehensive register will be maintained at the site office, documenting all grievances received. This register will serve as a transparent record of issues raised and their corresponding resolutions.
GS Contact (mandatory)	help@goldstandard.org
Other	SustainCert: info@sustain-cert.com

APPENDIX 1 - SAFEGUARDING PRINCIPLES ASSESSMENT

Complete the Assessment below and copy all Mitigation Measures for each Principle into SECTION D above. Please refer to the instructions in the Guide to Completing this Form.

SOCIAL SAFEGUARDING PRINCIPLES		
Reference requirement	Question	Response
P.1 |HUMAN RIGHTS		
P.1.1.1 |	Does the project developer, its representatives and the Project disrespect internationally proclaimed human rights?	☐ YES ☒ NO
P.1.1.1 |	Is the project involved or complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights?	☐ YES ☒ NO
P.1.1.2 |	Have local communities or individuals raised human rights concerns regarding the project (e.g., during the stakeholder engagement process, grievance processes, public statements)?	☐ YES ☒ NO
P.1.1.3 |	Is there a risk that rights-holders (e.g., Project-affected stakeholders) do not have the capacity to claim their rights?	☐ YES ☒ NO
P.1.1.3 |	Does this project undermine national or regional measures for the realisation of the right to development?	☐ YES ☒ NO
If the answer to any of the questions above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.		
Please add text here…		
Would the project potentially involve or lead to:		
P.1.1.1 |	adverse impacts on enjoyment of the human rights (civil, political, economic, social or cultural) of the affected population and particularly of marginalised groups?	☐ YES ☐ POTENTIALLY ☒ NO
P.1.1.2 |	inequitable or discriminatory impacts on affected populations, particularly people living in poverty or marginalised or excluded individuals or groups, including persons with disabilities?	☐ YES ☐ POTENTIALLY ☒ NO
P.1.1.3 |	restrictions in availability, quality of and/or access to resources or basic services, in particular to marginalised individuals or groups, including persons with disabilities?	☐ YES ☐ POTENTIALLY ☒ NO
P.1.1.3 |	exacerbation of conflicts among and/or the risk of violence to project-affected communities and individuals?	☐ YES ☐ POTENTIALLY

		☒ NO

Briefly describe below how the project incorporates a human rights-based approach.
For example, by describing how the project design:

- is informed by human rights analysis, including from UN human rights mechanisms (human rights treaty bodies, universal periodic review, special procedures)
- includes measures to assist the government to realise (respect, protect and fulfil) human rights under international law and to implement human rights-related standards in national law (whichever is higher)
- enhances the availability, accessibility and quality of benefits and services for potentially marginalised individuals and groups, and to increase their inclusion in decision-making processes that may impact them (consistent with the non-discrimination and equality human rights principle)
- provides reasonable accommodations to strengthen inclusivity and accessibility of project benefits and services to persons with disabilities.

Please add text here….

The Project is not in conflict with the economic livelihood of the local community.

The Project does not cause any human rights abuse and respects internationally proclaimed human rights issue.

Further, the Project meets the local labor law requirements thus does not cause any human rights abuse.

India has ratified the United Nations Human Rights Rules and regulations. The India ratified the same as per web link[46] given below.

The project adheres to the host country's commitment to:

Universal Declaration of Human Rights (UDHR) International Covenant on Economic, Social and Cultural Rights, India Accession 10/04/79[47]

P.2 |GENDER EQUALITY AND WOMEN'S EMPOWERMENT

P.2.1.1 |	Have women's groups/leaders raised gender equality concerns regarding the project, (e.g., during the stakeholder engagement process, grievance processes, public statements)?	☐ YES ☒ NO
P.2.1.2 |	Does the project undermine the principles of non-discrimination, equal treatment, and equal pay for equal work?	☐ YES ☒ NO
P.2.1.2 |	Does the project prevent men and women from having equal opportunities to participate in identified tasks and	☐ YES ☒ NO

[46] https://tbinternet.ohchr.org/_layouts/15/TreatyBodyExternal/Treaty.aspx?CountryID=79&Lang=EN

[47] https://tbinternet.ohchr.org/_layouts/15/TreatyBodyExternal/Treaty.aspx?CountryID=79&Lang=EN

	activities, whether through paid work, volunteer work, or community contributions, as appropriate?	
P.2.1.2 |	Does the project limit the participation of women or men based on pregnancy, maternity/paternity leave, or marital status?	☐ YES ☒ NO
P.2.1.2 |	Is information about project objectives being communicated in a way that is inappropriate for the local context and not tailored to the methods of understanding of both women and men, which could hinder their participation?	☐ YES ☒ NO
P.2.1.3 |	Has the project assessed gender risks without referencing the country's gender strategy or equivalent national commitment?	☐ YES ☒ NO
P.2.1.4 |	Has expert stakeholder(s) been involved, and has their input been requested for the project design on gender equality and women's empowerment?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project potentially involve or lead to:		
P.2.1.1 |	adverse impacts on gender equality and/or the situation of women and girls?	☐ YES ☐ POTENTIALLY ☒ NO
P.2.1.1 |	exacerbation of risks of gender-based violence? For example, through the influx of workers to a community, changes in community and household power dynamics, increased exposure to unsafe public places and/or transport, etc.	☐ YES ☐ POTENTIALLY ☒ NO
P.2.1.2 |	reproducing discriminations against women based on gender, especially regarding participation in design and implementation or access to opportunities and benefits?	☐ YES ☐ POTENTIALLY ☒ NO
P.2.1.2 |	limitations on women's ability to use, develop and protect natural resources, taking into account different roles and positions of women and men in accessing environmental goods and services? For example, activities that could lead to natural resources degradation or depletion in communities who depend on these resources for their livelihoods and well-being.	☐ YES ☐ POTENTIALLY ☒ NO

Briefly describe below how the project is addressing any identified risk to gender equality and women's empowerment.

The project does not adversely affect men and women in marginalized or vulnerable communities. Employment opportunities have been provided by the PP to the local people from the nearby villages around the project site which in turn has improved the livelihood and living standards of the local people.
The HR policy of PP mentions that all employees are given equal opportunities for betterment irrespective of the gender

P.3 |COMMUNITY HEALTH AND SAFETY

P.3.1.1 |	Does the project involve potential risks to the health and safety of affected communities during its life cycle?	☐ YES ☒ NO
P.3.1.2 |	Does the project involve any potential risks to the workers' safety and health?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project potentially involve or lead to:

P.3.1.1 |	construction and/or infrastructure development (e.g., roads, buildings, dams)?	☐ YES ☒ NO
P.3.1.2 |	air pollution, noise, vibration, traffic, injuries, physical hazards, poor surface water quality due to runoff, erosion, sanitation?	☐ YES ☐ POTENTIALLY ☒ NO
P.3.1.2 |	harm or losses due to failure of structural elements of the project (e.g., collapse of buildings or infrastructure)?	☐ YES ☐ POTENTIALLY ☒ NO
P.3.1.2 |	risks of water-borne or other vector-borne diseases (e.g., temporary breeding habitats), communicable and noncommunicable diseases, nutritional disorders, mental health?	☐ YES ☐ POTENTIALLY ☒ NO
P.3.1.2 |	transport, storage, and use and/or disposal of hazardous or dangerous materials (e.g., explosives, fuel and other chemicals during construction and operation)?	☐ YES ☐ POTENTIALLY ☒ NO
P.3.1.2 |	adverse impacts on ecosystems and ecosystem services relevant to communities' health (e.g., food, surface water purification, natural buffers from flooding)?	☐ YES ☐ POTENTIALLY ☒ NO

Briefly describe below how the project is addressing any identified risk related to community health and safety.

The project is renewable energy technology(Solar power based power generation Technology) and does not have exposure to increased health risks and shall not adversely affect the health of the workers and the community. Necessary health and safety measures are taken during construction and operation phase, as well as throughout the operational lifetime of the project activity, also staffs are trained to be able to work with high voltages and occupational health and safety. PP follows

the National Policy on Safety, Health and Environment at work[48], published by Ministry of Labor and Employment, Government of India		
P.4 |CULTURAL HERITAGE, INDIGENOUS PEOPLE, DISPLACEMENT AND RESETTLEMENT		
P.4.1 |Sites of Cultural and Historical Heritage		
P.4.1.1 |	Does the project involve altering, damaging, or removing sites, objects, or structures of significant cultural heritage?	☐ YES ☒ NO
If the answer to question above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.		
Please add text here….		
Would the project potentially involve or lead to:		
P.4.1.1 |	activities adjacent to or within a cultural heritage site?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.1.1 |	significant excavations, demolitions, movement of earth, flooding or other environmental changes?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.1.1 |	alterations to landscapes and natural features with cultural significance?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.1.1 |	adverse impacts to sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g., knowledge, innovations, practices)? (Note: projects intended to protect and conserve Cultural Heritage may also have inadvertent adverse impacts)	☐ YES ☐ POTENTIALLY ☒ NO
P.4.1.2 |	utilisation of tangible and/or intangible forms (e.g., practices, traditional knowledge) of Cultural Heritage for commercial or other purposes?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.1.2 |	If answer to question above is "YES" or "POTENTIALLY" - are the communities made aware of their right under the law, scope and nature of proposed development and its potential consequences?	☐ YES ☐ NO ☒ NA
P.4.1.3 |	If answer to question above is "YES" - does the project provide equitable sharing of benefits from	☐ YES ☐ NO

[48] https://labour.gov.in/sites/default/files/SafetyHealthandEnvironmentatWorkPlace.pdf

	commercialisation of such knowledge, innovation, or practice, consistent with their customs and traditions?	☒ NA
P.4.1.4 |	If answer to question above is "YES" - are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	☐ YES ☐ NO ☒ NA
P.4.1.4 |	If answer to question above is "YES", has project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?	☐ YES ☐ NO ☒ NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here….

P.4.2 |*Forced Eviction and Displacement*

P.4.2.1 |	Does the project involve any risks related to involuntary relocation of people?	☐ YES ☒ NO

If the answer to question above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project potentially involve or lead to:

P.4.2.1 |	risk of forced evictions or involuntary relocation of people?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.2.2 |	temporary or permanent and full or partial physical displacement (including people without legally recognisable claims to land)?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.2.2 |	economic displacement (e.g., loss of assets or access to resources due to land acquisition or access restrictions – even in the absence of physical relocation)?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.2.2 |	If answer to question above is "YES" or "POTENTIALLY", - has the project developed Resettlement Action Plan or Livelihood Action Plan in consultation and agreement with affected individual, group or community? - has the project integrated Resettlement Action Plan or Livelihood Action Plan into the Project design?	☐ YES ☐ NO ☒ NA
P.4.2.3 |	If answer to question above is "YES" - are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	☐ YES ☐ NO ☒ NA
P.4.2.3 |	If answer to question above is "YES", have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?	☐ YES ☐ NO ☒ NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.
Please add text here….

P.4.3 |LAND TENURE AND OTHER RIGHTS

P.4.3.1 |	Does the project involve any risks related to identifying and managing legitimate tenure rights that may be affected by the project?	☐ YES ☒ NO

If the answer to question above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.
Please add text here….

Would the project potentially involve or lead to:

P.4.3.1 |	impacts on or changes to land tenure arrangements and/or community-based property rights/customary rights to land, territories and/or resources?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.3.1 |	uncertainties with regards to land tenure, access rights, usage rights or land ownership? Examples include, but are not limited to water access rights, community-based property rights and customary rights.	☐ YES ☐ POTENTIALLY ☒ NO
P.4.3.2 |	Changes in legal arrangements, if yes, are the changes done in line with relevant laws and regulations?	☐ YES ☒ NO ☐ NA
P.4.3.2 |	Changes in legal arrangements, if yes, are these changes agree with free, prior and informed consent of the involved stakeholders?	☐ YES ☒ NO ☐ NA
P.4.3.3 |	Does some other entity (other than the project developer) hold uncontested land title for the entire Project Boundary?	☐ YES ☒ NO ☐ NA
P.4.3.4 |	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	☐ YES ☒ NO ☐ NA
P.4.3.4 |	If answer to question above is “YES”, have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?	☐ YES ☐ NO ☒ NA
P.4.3.5 |	Have project developer in consultation with stakeholders established a functioning mechanism to receive, process, resolve, communicate and record grievances?	☐ YES ☒ NO ☐ NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.
Please add text here….

P.4.4 |INDIGENOUS PEOPLES		
P.4.4.1 |	Does the project involve Indigenous People within the Project area of influence who may be affected directly or indirectly by the Project?	☐ YES ☒ NO
If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		
Please add text here….		
Would the project potentially involve or lead to:		
P.4.4.1 |	affect areas where indigenous peoples are present (including project area of influence)	☐ YES ☐ POTENTIALLY ☒ NO
P.4.4.1 |	affect areas, land and territory claimed by indigenous peoples?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.4.1 |	impacts (positive or negative) to the human rights, lands, natural resources, territories, and traditional livelihoods of indigenous peoples?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.4.7 |	If answer to above questions is ''YES'' or "POTENTIALLY", - Is it determined that the proposed project may affect the rights, lands, resources, or territories of indigenous people? - Has an "Indigenous People Plan" (IPP) or "Indigenous People Plan Framework" been elaborated and included in the project documentation? - Was the plan developed in accordance with the effective and meaningful participation of indigenous peoples and in accordance with UNDP Guidelines?	☐ YES ☐ NO ☒ NA
P.4.4.3 |	risk of forcibly removing indigenous people from their lands and territories?	☐ YES ☐ POTENTIALLY ☒ NO
P.4.4.4 |	utilisation and/or commercial development of natural resources on lands and territories claimed by indigenous peoples? Consider, and where appropriate ensure, consistency with the answers under Principle 4.1 above	☐ YES ☐ POTENTIALLY ☒ NO
P.4.4.5 | P.4.4.6 |	If answer to question above is "YES" or "POTENTIALLY" - Did the project obtain free, prior and informed consent from indigenous people before taking their	☐ YES ☐ NO ☒ NA

	cultural, intellectual, religious, and/or spiritual property? - Does the project ensure that the indigenous people receive an equitable sharing of benefits resulting from the use of their traditional knowledge and practices? ? - Does the project ensure that the sharing of benefits resulting from the use of indigenous peoples' traditional knowledge and practices is culturally appropriate and inclusive? - Does the project ensure that the provision of equitable sharing of benefits does not impede land rights or equal access to basic services including health services, clean water, energy, education, safe and decent working conditions, and housing?	
P.4.4.8 |	Does the project lack appropriate feedback and grievance channels for Indigenous Peoples and their representatives?	☐ YES ☒ NO ☐ NA
P.4.4.8 |	Has a grievance mechanism not been established at the beginning of programme or project implementation with due consideration given to customary dispute settlement mechanisms among the Indigenous Peoples concerned and will it remain operational throughout the project cycle?	☐ YES ☒ NO ☐ NA
P.4.4.9 |	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	☐ YES ☒ NO ☐ NA
P.4.4.9 |	If answer to question above is "YES", have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?	☐ YES ☐ NO ☒ NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here….

P.5 |CORRUPTION

P.5.1.1 |	Does the project involve, or is it complicit in, contributing to or reinforcing corruption or corrupt projects?	☐ YES ☒ NO
P.5.1.1 |	Does the project have a risk of encouraging bribery, kickbacks, or other unethical behavior?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here….

ECONOMIC SAFEGUARDING PRINCIPLES

P.6 |ECONOMIC IMPACTS

P.6.1 |LABOUR RIGHTS AND WORKING CONDITIONS

P.6.1.1 |	Does the project involve, facilitate, or condone forced labor, or pose a potential risk of forced labor?	☐ YES ☒ NO
P.6.1.1 |	Does the project violate any labor or health and safety laws, international obligations, or ILO conventions?	☐ YES ☒ NO
P.6.1.2 |	Does the project violate the principles of equal opportunity and fair treatment in its employment decisions?	☐ YES ☒ NO
P.6.1.3 |	Does the project violate national laws, if available regarding non-discrimination in employment?	☐ YES ☒ NO
P.6.1.4 | P.6.1.5 |	Does the project allow child labor?	☐ YES ☒ NO
P.6.1.7 | P.6.1.8 |	Does the project have insufficient processes and measures in place to ensure the safety and health of project workers?	☐ YES ☒ NO
P.6.1.9 |	Does the project have insufficient measures to safeguard and support vulnerable project workers, such as women, people with disabilities, migrant workers, and young workers, and to prevent any kind of harassment, abuse, bullying, or exploitation, including gender-based violence (GBV)?	☐ YES ☒ NO
P.6.1.10 |	Does the project have no grievance mechanism available for workers to voice workplace concerns? Is information about this mechanism not provided to workers at the time of recruitment, or is it not easily accessible?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project potentially involve or lead to:
(NOTE: APPLIES TO BOTH PROJECT AND CONTRACTOR WORKERS)

P.6.1.1 |	use of forced labour?	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.1 |	working conditions that do not meet national labour laws and international commitments?	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.1 |	working conditions that may deny freedom of association and collective bargaining?	☐ YES ☐ POTENTIALLY

		☒ NO
P.6.1.1 |	absence of documented working agreements with all individual workers *if such agreements do not exist, or do not address working conditions and terms of employment, the project developer shall provide reasonable working conditions and terms of employment.*	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.1 |	use of migrant workers? *if engaged, the developer shall ensure that they are engaged substantially equivalent terms and conditions to non-migrant workers carrying out similar work.*	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.1 |	having no arrangements for basic services[49] for workers? *the project developer shall put in place and implement policies on the quality and management of the accommodation and provision of basic services in a manner consistent with the principles of non-discrimination and equal opportunity. Workers' accommodation arrangements should not restrict workers' freedom of movement or of association*	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.2 |	any form of discrimination or harassment based on factors unrelated to job requirements, such as gender, race, nationality, ethnicity, social or indigenous origin, religion or belief, disability, age, or sexual orientation?	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.2 |	any form of discrimination in any aspect of employment, such as recruitment, compensation, working conditions, training, job assignment, promotion, termination, or discipline?	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.2 |	harassment, intimidation, and/or exploitation, especially in regard to women?	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.3 |	discriminatory working conditions and/or lack of equal opportunity where national law provides provision to address non-discrimination in employment?	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.4 |	use of child labour? (including third-party engaged workers)	☐ YES ☐ POTENTIALLY ☒ NO
P.6.1.4 |	inadequate and verifiable mechanisms for age verification?	☐ YES

[49] Basic services requirements refer to minimum space, supply of water, adequate sewage and garbage disposal system, appropriate protection against heat, cold, damp, noise, fire, and disease-carrying animals, adequate sanitary and washing facilities, ventilation, cooking and storage facilities and natural and artificial lighting, and in some cases basic medical services.

		☒ NO
P.6.1.7 |	no processes and measures in place for the safety and health of project workers?	☐ YES ☒ NO
P.6.1.7 |	No provision of safety and health training provisions, including on the proper use and maintenance of personal protective equipment conducted by competent persons and the maintenance of training records?	☐ YES ☒ NO
P.6.1.7 |	No provision to record and document accidents, diseases, incidents, and any resulting injuries, illnesses, or deaths?	☐ YES ☒ NO
P.6.1.8 |	occupational health and safety risks due to physical, chemical, biological and psychosocial hazards (including violence and harassment) throughout the project life-cycle?	☐ YES ☒ NO
P.6.1.9 |	No measures to protect vulnerable project workers from harassment, exploitation, and gender-based violence (GBV)? This includes women, people with disabilities, migrant workers, and young workers.	☐ YES ☒ NO
P.6.1.10 |	No grievance mechanism available for workers to voice workplace concerns.	☐ YES ☒ NO
P.6.1.11 |	No measures for due diligence and the establishment of policies and procedures to manage and monitor the performance of third-party employees in the project?	☐ YES ☒ NO

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here….

P.6.2 |NEGATIVE ECONOMIC CONSEQUENCES

P.6.2.1 |	Is there a risk of project failure during implementation or after project certification due to a lack of financial resources?	☐ YES ☒ NO
P.6.2.2 |	Does the project have potential negative impacts or pose a risk to the local economy?	☐ YES ☒ NO
P.6.2.2 |	Are there any potential risks or negative impacts this project may have on vulnerable or marginalised social groups, despite the benefits it may bring?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here…

Would the project involve or lead to:

P.6.2.2 |	economic impacts (negative/detrimental) to the local economy?	☐ YES ☐ POTENTIALLY ☒ NO

P.6.2.2 |	negative economic consequences during and after project implementation, e.g., for vulnerable and marginalised social groups in targeted communities?	☐ YES ☐ POTENTIALLY ☒ NO

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here….

P.7 |**CLIMATE AND ENERGY**

P.7.1 |GHG EMISSIONS

P.7.1.1 |	Does the project have a risk of increasing greenhouse gas emissions over the Baseline Scenario?	☐ YES ☒ NO

If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project involve or lead to:

P.7.1.1 |	increase greenhouse gas emissions over the Baseline Scenario?	☐ YES ☐ POTENTIALLY ☒ NO

If the answer is "yes" or "potentially" to the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here….

P.7.2 |ENERGY SUPPLY

P.7.2.1 |	Does the project pose a risk to the availability and reliability of energy supply to other users?	☐ YES ☒ NO

If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project involve or lead to:

P.7.2.1 |	negative impact on the availability and reliability of energy supply to other users?	☐ YES ☐ POTENTIALLY ☒ NO

If the answer is "yes" or "potentially" to the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.
Please add text here….

P.8 |WATER

P.8.1 |IMPACT ON NATURAL WATER PATTERNS/FLOWS

P.8.1.1 |	Does the project increase water usage to a level that will not allow for the maintenance of environmental flows?	☐ YES ☒ NO
P.8.1.1 |	Does the project result in the discharge of wastewater that does not meet the required standard for beneficial reuse and could therefore negatively impact the environmental flow?	☐ YES ☒ NO
P.8.1.1 |	Does the project have the potential risk to exceed the rate of recharge for the groundwater source?	☐ YES ☒ NO
P.8.1.1 |	Does the project involve any processes or activities that could contaminate the groundwater and render it unsuitable for use?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.
Please add text here….

Would the project involve or lead to:		
P.8.1.1 |	affect the natural or pre-existing pattern of watercourses, groundwater and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	☐ YES ☐ POTENTIALLY ☒ NO
P.8.1.1 |	Wastewater discharge of quality that does not meet the required standard for beneficial reuse?	☐ YES ☐ POTENTIALLY ☒ NO
P.8.1.1 |	significant extraction, diversion of ground water? For example, construction of dams, reservoirs, river basin developments, groundwater extraction	☐ YES ☐ POTENTIALLY ☒ NO
P.8.1.2 |	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	☐ YES ☒ NO ☐ NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.
Please add text here….

P.8.2 |EROSION AND/OR WATER BODY INSTABILITY		
P.8.2.1 |	Does the project have a risk of negatively impacting the catchment and has it been assessed and addressed?	☐ YES ☒ NO
If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		
Please add text here….		
Would the project involve or lead to:		
P.8.2.2 | - P.8.2.5 |	negatively impact on the catchment area? *If yes, Erosion prevention measures, including soil and slope protection measures, must be implemented before project commencement. These measures should involve natural terracing, infiltration strips, permanent ground cover, hedge and tree rows, and effective slope length assessment. Regular reassessment of these measures is necessary.*	☐ YES ☐ POTENTIALLY ☒ NO
P.8.2.6 |	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	☐ YES ☒ NO ☐ NA
If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
Please add text here….		

P.9 |ENVIRONMENT, ECOLOGY AND LAND USE

P.9.1 |LANDSCAPE MODIFICATION AND SOIL		
P.9.1.1 | - P.9.1.3 |	Is there any risk of soil resource degradation or loss of ecosystem services provided by soils in the project? *If yes, the project shall maintain healthy soils by minimising negative impacts on soil health, productivity, structure, and water retention. Steps to minimise soil degradation include crop rotation, composting, using N-fixing plants, and reducing tillage and ecologically harmful substances.*	☐ YES ☒ NO
If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		
Please add text here….		

Would the project involve or lead to:		
P.9.1.4 |	production, harvesting, and/or management of living natural resources by small-scale landholders and/or local communities?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.1.4 |	if answer to above question "yes" or "potentially", does project adopt appropriate and culturally sensitive sustainable resource management practices?	☐ YES ☐ NO ☒ NA
If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
Please add text here….		

P.9.2 |VULNERABILITY TO NATURAL DISASTER

P.9.2.1 |	Does the project have any risks associated with natural or man-made hazards that could result from land use changes due to the project?	☐ YES ☒ NO
If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		
Please add text here….		
Would the project involve or lead to:		
P.9.2.2 |	any potential risks that require emergency preparedness and response planning?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.2.2 |	if answer to above question "yes" or "potentially", did the project developer disclose appropriate information about emergency preparedness and response to affected communities?	☐ YES ☐ NO ☒ NA
If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
Please add text here….		

P.9.3 |BIOSAFETY AND GENETIC RESOURCES

P.9.3.1 |	Does the project involve the transfer, handling, and use of genetically modified organisms/living modified organisms that may result in adverse effects on biological diversity?	☐ YES ☒ NO
If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		
Please add text here….		

Would the project involve or lead to:		
P.9.3.1 |	the transfer, handling and use of genetically modified organisms/living modified organisms (GMOs/LMOs) that result from modern biotechnology	☐ YES ☐ POTENTIALLY ☒ NO
P.9.3.1 |	If answer to above question is "yes" has a risk assessment by a competent Expert stakeholder been carried out in accordance with Annex iii of the Cartagena protocol on biosafety to the convention on biological diversity?	☐ YES ☐ NO ☒ NA
P.9.3.2 |	If answer to above question is "yes" has any risks identified in the risk assessment?	☐ YES ☐ NO ☒ NA
P.9.3.3 |	Forestry (for example Afforestation/Reforestation) involving GMO planting? *Note - Forestry projects (for example Afforestation/ Reforestation) involving GMO planting are not eligible for Certification under Gold Standard for the Global Goals.*	☐ YES ☐ NO ☒ NA
If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
Please add text here….		
P.9.4 |RELEASE OF POLLUTANTS		
P.9.4.1 |	Does the project have a risk of releasing pollutants to air, water, and land in routine, non-routine, or accidental circumstances?	☐ YES ☒ NO
If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		
Please add text here….		
Would the project involve or lead to:		
P.9.4.1 |	any potential risk of pollutant release that cannot be avoided?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.4.3 |	If answer to above question is "Yes" or "potentially", has the project identified all potential pollution sources that may degrade the quality of soil, air, surface, and groundwater in the project area?	☐ YES ☐ NO ☒ NA
P.9.4.2 |	If answer to above question is "Yes" or "potentially", do the pollution prevention and control technologies and practices applied during the project life cycle align with national regulations or international best practices?	☐ YES ☐ NO ☒ NA

P.9.4.3 |	If answer to above question is "Yes", is there a monitoring plan to ensure that mitigation measures are implemented, and resources are protected?	☐ YES ☐ NO ☒ NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here….

P.9.5 |HAZARDOUS AND NON-HAZARDOUS WASTE

P.9.5.1 |	Does the project involve the generation of waste materials (both hazardous and non-hazardous)?	☐ YES ☒ NO
P.9.5.3 |	Does the project involve risk of release of hazardous materials resulting from their production, transportation, handling, storage, or use?	☐ YES ☒ NO
P.9.5.5 |	Does the project involve the use of any chemicals or materials subject to international bans or phase-outs?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project involve or lead to:

P.9.5.1 |	the generation and management of waste materials?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.5.1 |	treatment, destruction, or disposal of waste material?	☐ YES ☒ NO ☐ NA
P.9.5.1 |	If answer to above question is "Yes", does the project involve an environmentally friendly method that includes appropriate control of emissions and residues resulting from the handling and processing of waste material?	☐ YES ☐ NO ☒ NA
P.9.5.3 |	risk of release of hazardous materials resulting from their production, transportation, handling, storage, or use?	☐ YES ☒ NO ☐ NA
P.9.5.3 |	If answer to above question is "yes", does project has measures in place to address health risks?	☐ YES ☐ NO ☒ NA
P.9.5.4 |	Involve manufacture, trade, and use of chemicals and hazardous materials subject to international bans or phase-outs due to their high toxicity to living organisms, environmental persistence, potential for bioaccumulation, or potential for depletion of the ozone layer	☐ YES ☐ POTENTIALLY ☒ NO

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.
Please add text here….

P.9.6 |PESTICIDES & FERTILISERS

P.9.6.1 |	Does the project involve the use of chemical pesticides?	☐ YES ☒ NO
P.9.6.5 |	Does the project involve purchase, store, manufacture, trade or use products that fall in Classes IA (extremely hazardous) and IB (highly hazardous)	☐ YES ☒ NO
P.9.6.6 |	Does the project use fertilisers, and if so, are measures being taken to minimise their use and nutrient losses to the environment?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.
Please add text here….

Would the project involve or lead to:		
P.9.6.1 |	chemical pesticides use for pest management?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.6.4 |	If answer to question above is "yes" or "potentially", does project has documented Chemical Pesticides Policy in place?	☐ YES ☐ NO ☒ NA
P.9.6.5 |	purchase, store, use, manufacture, or trade in Class II (moderately hazardous) pesticides?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.6.5 |	If answer to question above is "yes" or "potentially", does project has appropriate controls on manufacture, procurement, or distribution and/or use of these chemicals?	☐ YES ☐ NO ☒ NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.
Please add text here….

P.9.7 |HARVESTING OF FORESTS

P.9.7.1 |	Does the project have a risk of unsustainable forest management, including timber harvesting?	☐ YES ☒ NO

P.9.7.1 |	Does the project pose a risk of depleting biodiversity and ecosystem functionality in areas where improved forest management is undertaken?	☐ YES ☒ NO
P.9.7.1 |	Does the project risk not meeting requirements for environment-friendly, socially beneficial, and economically viable plantations using native species whenever possible?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here….

P.9.8 |FOOD SECURITY

P.9.8.1 |	Does the project involve the risk of negatively influencing access to and availability of food for people affected?	☐ YES ☒ NO

If the answer to the question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project involve or lead to:

P.9.8.1 |	modification of the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	☐ YES ☐ POTENTIALLY ☒ NO

If the answer is "yes" or "potentially" to the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here….

P.9.9 | ANIMAL WELFARE

P.9.9.1 |	Does the project involve any risks to animal welfare? Animal welfare shall be ensured by providing access to water and food, appropriate environment, humane treatment, and staff training. Evidence of mistreatment will be treated as an immediate non-conformity.	☐ YES ☒ NO
P.9.9.2 |	Does the project involve any potential risk of excessive or inadequate use of veterinary medicines?	☐ YES ☒ NO
P.9.9.4 |	Does the project involve the risk of administering synthetic growth promoters, including hormones?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project involve or lead to:

P.9.9.1 |	animal husbandry or harvesting of fish populations or other aquatic species?[50]	☐ YES ☒ NO ☐ NA
P.9.9.1 |	limiting access for animals to basic needs like drinking water, adequate food, daylight, appropriate shelter etc.?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.9.3 |	inadequate measures to isolate sick animals and control the spread of disease, especially zoonotic diseases?	☐ YES ☒ NO ☐ NA
P.9.9.5 |	inadequate low-stress methods, equipment, and facilities that facilitate calm animal movement.	☐ YES ☒ NO ☐ NA
P.9.9.6 |	inadequate measures to ensure that animals are exposed to the least stress possible during transportation and slaughtering?	☐ YES ☒ NO ☐ NA
P.9.9.7 |	inappropriate spacing per animal and stocking rates per land unit?	☐ YES ☒ NO ☐ NA
P.9.9.8 |	inadequate measures to address the specific needs of aquatic animals?	☐ YES ☒ NO ☐ NA
P.9.9.9 | P.9.9.10 |	primary production of living natural resources such as animal husbandry, aquaculture, and fisheries? If the answer is yes, implement industry-standard sustainable management practices in line with to one or more relevant and credible standards and utilise available technologies.	☐ YES ☒ NO ☐ NA

If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

Please add text here….

P.9.10 |HIGH CONSERVATION VALUE AREAS AND CRITICAL HABITATS

P.9.10.1 |	Does the project have the risk of negatively impacting HCV areas and/or critical habitats?	☐ YES ☒ NO

[50] 'Involve' means if the project mechanism and/or impact(s) are achieved via changing animal husbandry practices in some way.

P.9.10.2 |	Does the project in the project area or area of downstream impacts have risks to the following: native tree patches, individual native trees, freshwater resources (including rivers, lakes, swamps, temporary water bodies, and wells), habitats of rare, threatened, and endangered species, and biodiversity-enhancing areas?	☐ YES ☒ NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here….

Would the project involve or lead to:

P.9.10.1 |	identified habitats as HCV areas and or Critical habitats?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.10.1 |	If answer to above question is "yes", does the project have any risks that could negatively impact the catchment, project success, and surrounding HCV and ecological assets, as well as any measurable adverse impacts on the criteria or biodiversity values for which the critical habitat was designated, and on the ecological processes supporting that biodiversity?	☐ YES ☐ NO ☒ NA
P.9.10.1 |	If answer to above question is "yes", is a robust, appropriately designed, and long-term Habitats and Biodiversity Action Plan absent which will make the project unable to achieve net gains of those biodiversity values for which the critical habitat was designated?	☐ YES ☐ NO ☒ N/A
P.9.10.2 |	Does the project area or area of downstream impacts have native tree patches, individual native trees, freshwater resources (including rivers, lakes, swamps, temporary water bodies, and wells), habitats of rare, threatened, and endangered species, and biodiversity-enhancing areas?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.10.2 |	If the answer to the above question is "yes", will the project have any adverse effects on these areas?	☐ YES ☐ No ☒ NA
P.9.10.3 |	If the answer to above question is "yes", does the project has opportunities to minimise unwarranted conversion or degradation of the habitat and to enhance the habitat as part of its development?	☐ YES ☐ No ☒ NA
P.9.10.4 |	Is the project applying Land Use & Forest Activity Requirements and managing a minimum 10% of the project area to protect or enhance the biological diversity of native ecosystems following HCV approach as per the given requirements?	☐ YES ☒ No ☐ NA
P.9.10.5 |	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	☐ YES ☒ NO ☐ NA

If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.
Please add text here….

P.9.11 |ENDANGERED SPECIES

P.9.11.1 |	Does the project lead to the reduction or negative impact on any recognised Endangered, Vulnerable or Critically Endangered species?	☐ YES ☒ NO

If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.
Please add text here….
Would the project involve or lead to:

P.9.11.2 |	distortion of habitats of endangered species?	☐ YES ☐ POTENTIALLY ☒ NA
P.9.11.2 |	If answer to the above question is “yes”, does the project plan to protect and enhance them?	☐ YES ☐ POTENTIALLY ☐ NO ☒ N/A
P.9.11.2 |	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	☐ YES ☐ NO ☒ NA

If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.
Please add text here….

P.9.12 |INVASIVE ALIEN SPECIES

P.9.12.1 |	Does project introduce any alien species (not currently established in the country or region of the project) into new environments?	☐ YES ☒ NO

If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.
Please add text here….
Would the project involve or lead to:

P.9.12.1 |	risk of introducing any alien species with a high risk of invasive behaviour regardless of whether such introductions are permitted under the existing regulatory framework?	☐ YES ☐ POTENTIALLY ☒ NO
P.9.12.1 |	risk of potential accidental or unintended introductions including the transportation of substrates and vectors (such as soil, ballast, and plant materials) that may harbour alien species.	☐ YES ☐ POTENTIALLY ☒ NO
P.9.12.2 |	risk of spreading alien species into areas in which they have not already been established?	☐ YES ☐ POTENTIALLY ☒ NO
If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
Please add text here….		

APPENDIX 2 - CONTACT INFORMATION OF PROJECT DEVELOPER(S)

Organization name	ELECTRYONE POWER PRIVATE LIMITED formerly known as Emami Power Ltd
Registration number with relevant authority	CIN No: U40102WB2010PTC154915 Ministry of Corporate Affairs,India
Street/P.O. Box	Village Udalhedi, Manglore
Building	Khasara No.186,182/1
City	Haridwar
State/Region	Uttarakhand
Postcode	247656
Country	India
Telephone	NA
E-mail	mchenniappan@evrenenergy.com
Website	NA
Contact person	Muruganandan Chenniappan
Title	-
Salutation	NA
Last name	Chenniappan
Middle name	-
First name	Muruganandan
Department	
Mobile	+91 7304945490
Direct tel.	-
Personal e-mail	NA

APPENDIX 3 - LUF ADDITIONAL INFORMATION

Risk of change to the Project Area during Project Certification Period:	Not Applicable
Risk of change to the Project activities during Project Certification Period:	Not Applicable
Land-use history and current status of Project Area:	Not Applicable
Socio-Economic history:	Not Applicable
Forest management applied (past and future)	Not Applicable
Forest characteristics (including main tree species planted)	Not Applicable
Main social impacts (risks and benefits)	Not Applicable
Main environmental impacts (risks and benefits)	Not Applicable
Financial structure	Not Applicable
Infrastructure (roads/houses etc):	Not Applicable
Water bodies:	Not Applicable
Sites with special significance for indigenous people and local communities - resulting from the Stakeholder Consultation:	Not Applicable
Where indigenous people and local communities are situated:	Not Applicable
Where indigenous people and local communities have legal rights, customary rights or sites with special cultural, ecological, economic, religious or spiritual significance:	Not Applicable

APPENDIX 4 - DESIGN CHANGES

A4.1. Details of proposed or actual design change

>> Not Applicable

A4.2. Describe the impacts of design change on the following

a. Additionality

>> Not Applicable

b. Applicability of methodology and other methodological regulatory documents with which the project activity has been certified

>> Not Applicable

c. Compliance with the monitoring plan of the applied methodology

>> Not Applicable

d. Level of accuracy and completeness in the monitoring of the project activity compared with the requirements contained in the registered monitoring plan

>> Not Applicable

e. Scale of the project activity

>> Not Applicable

f. Stakeholder consultation

>> Not Applicable

g. Sustainable development criteria

>> Not Applicable

h. Safeguarding assessment

>> Not Applicable

i. Compliance with applicable legislation

>> Not Applicable

j. <u>Only for LUF Projects</u>: Transparent summary of all approved changes in Project Area, Eligible Area and accompanying changes in ex-ante emissions removals.

DATE OF APPROVED DESIGN CHANGE (MM/DD/YYYY)	PROJECT AREA (HA)		ELIGIBLE AREA (HA)		EX-ANTE ESTIMATE (TCO2E)	
	INCREASE OR DECREASE ?	VALUE (HA)	INCREASE OR DECREASE?	VALUE (HA)	INCREASE OR DECREASE ?	PERCENTAGE (%)

DOCUMENT HISTORY

Version	Date	Remarks
1.5	29 June 2023	Editorial changes to match V2.1 of the Safeguarding Principles Requirements
1.4	21 June 2023	Editorial changes to match V2.0 of the Safeguarding Principles Requirements
1.3	14 April 2023	Integrated the design change memo as annex of the document. Editorial changes
1.2	14 October 2020	Hyperlinked section summary to enable quick access to key sections Improved clarity on Key Project Information Inclusion criteria table added Gender sensitive requirements added Prior consideration (1 yr rule) and Ongoing Financial Need added Safeguard Principles Assessment as annex and a new section to include applicable safeguards for clarity Improved Clarity on SDG contribution/SDG Impact term used throughout Clarity on Stakeholder Consultation information required Provision of an accompanying Guide to help the user understand detailed rules and requirements
1.1	24 August 2017	Updated to include section A.8 on 'gender sensitive' requirements
1.0	10 July 2017	Initial adoption