BUNDLED SOLAR POWER PROJECT BY SOLARARISE INDIA PROJECTS PVT. LTD.

Document Prepared by SolarArise India Projects Private Limited

Project Title	Bundled Solar Power Project by SolarArise India Projects Pvt. Ltd.
Version	02
Report ID	1762-MP-03
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Project ID	1762
Monitoring Period	01/09/2021 to 31/03/2022 (Inclusive of both days)
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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The main purpose of this project activity is to generate clean form of electricity through renewable solar energy source. The project is a bundled project activity which involves installation of 120 MW solar project in different states of India through SPVs.

Over the 10 years of first crediting period, the project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 244,968 tCO_2e per year, thereon displacing 253,776 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 SPVs for the project and their location of installation are mentioned in the table below: -

Name of Investor	Capacity (MW)	COD	Connection with Grid	State	Usage
Talettutayi Solar Projects Pvt Ltd	10 MW	23/06/2016	Indian Grid	Telangana	Sale to State DISCOM
NV Vogt Solar One Pvt Ltd[1] (Talettutayi Solar Projects Six Pvt Ltd)	10 MW	23/06/2016	Indian Grid	Telangana	Sale to State DISCOM
Talettutayi Solar Projects Four Pvt Ltd	50 MW	10/08/2017	Indian Grid	Maharashtra	Sale to SECI
Talettutayi Solar Projects One Pvt Ltd	30 MW	05/01/2018	Indian Grid	Karnataka	Sale to SECI
Talettutayi Solar Projects Two Pvt Ltd	20MW	07/08/2019	Indian Grid	Karnataka	Sale to State DISCOM

These are the SPVs of SolarArise India Projects Pvt. Ltd. and the project is promoted by SolarArise India Projects Pvt. Ltd.

Total emission reductions achieved in this monitoring period:

During the Current Monitoring Period from 01/09/2021 to 31/03/2022 (First and last date included), the project activity has supplied 130,978 MWh of electricity, and thus contributing to the GHG reductions 126,432 tCO_2e.

1.2 Sectoral Scope and Project Type

The project activity falls under the following sectoral scope and project type:

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

Project Type : I - Renewable Energy Projects

Project Category: Grid-connected electricity generation from renewable sources ACM0002-Version 18.1[2]

1.3 Project Proponent

Organization name	SolarArise India Projects Pvt. Ltd.
Contact person	Mr. Rakesh Patel
Title	Sr Manager – Business Development
Address	Unit No. 1004, 10th Floor BPTP Park Centra, Sector – 30, NH – 8, Gurugram – 122001
Telephone	0124 – 4204108
Email	rakesh.patel@solar-arise.com

1.4 Other Entities Involved in the Project

Not Applicable

1.5 Project Start Date

Start date of the project activity is the earliest date of interconnection with the grid i.e., 23/06/2016. This is the date of commissioning of 10 MW Solar PV Project activity in Talettutayi Solar Projects Pvt. Ltd. and 10 MW Solar PV Project activity by NV Vogt Solar One Pvt. Ltd (Talettutayi Solar Projects Six Pvt. Ltd.)

The details of the commissioning dates of the individual project activity are mentioned in the section 1.1 of this report.

1.6 Project Crediting Period

Crediting Period Start date: 23/06/2016; Crediting Period End date: 22/06/2026

The project activity adopts renewable crediting period of 10 years period which can be renewed for maximum 2 times.

1.7 Project Location

he details of the project locations are mentioned in the table below:

Name of Investor	Capacity (MW)	Location				
		State	District	Tehsil/ Taluka	Village	Lat/Long
Talettutayi Solar Projects Pvt Ltd	10 MW	Telangana	Mahabubnagar	Gadwal	Palwai	16.153ºN, 77.763º E
Talettutayi Solar Projects Six Pvt Ltd (previously known as NV Vogt Solar One Pvt Ltd)	10 MW	Telangana	Mahabubnagar	Gadwal	Palwai	16.266ºN, 77.784º E
Talettutayi Solar Projects Four Pvt Ltd	50 MW	Maharashtra	Beed	Telgaon	Chatgaon	18.966ºN, 76.218ºE
Talettutayi Solar Projects One Pvt Ltd	30 MW	Karnataka	Koppal	Yelburga	Chikkoppa and Mudhol	15.649N, 75.983E
Talettutayi Solar Projects Two Pvt Ltd	20MW	Karnataka	Koppal	Koppal	Kerahalli	15.371N, 76.306E

The project locations have been shown in the maps below.

1.8 Title and Reference of Methodology

Title: Grid-connected electricity generation from renewable sources

Reference: The project activity meets the eligibility criteria of large-scale project, as it is more than 15 MW

Methodology: ACM0002: Grid-connected electricity generation from renewable sources - Version 18.1[3]

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[1] - Version 07.0 (EB 100, Annex 04)
- Methodological Tool- Tool for the demonstration and assessment of additionality[2] - Version 07.0.0 (EB 70, Annex 08)

1.9 Participation under other GHG Programs

The project has neither been registered, nor seeking registration under any other GHG programs. The project is seeking registration only in VCS program.

The undertaking from PP has been submitted accepting there is no double accounting for current monitoring period and the project activity is not a participant of any other GHG program other than VCS.

1.10 Other Forms of Credit

The Project has no intend to generate any other form of GHG-related environmental credit for GHG emission reductions or removals claimed under the VCS Program.

However, it can be crosschecked that PP is not claiming REC benefits, the same can be verified with the REC accreditation body of India[3].

1.11 Sustainable Development Contributions

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

[3] https://cdm.unfccc.int/methodologies/DB/5725LCHYPYM4I1V8OD9SFYVAMFFWNP

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

- **Social well-being:**
    - Contribution to the development of an otherwise underdeveloped area.
    - Generation of employment opportunities for local people during various phases of the project activity.
- **Economic well-being:**
    - Since the project uses renewable solar power resources for power generation it does not lead to any emissions in the environment.
    - o Avoiding further depletion of the already over-exploited, limited non-renewable sources like coal, oil, etc.
- **Technological well-being:**
    - The technology selected for the power project would use well established Solar PV power generation and the project activity would promote the use of such technology.
- **Environmental well-being:**
    - Solar being a renewable source of energy, it reduces the dependence on fossil fuels and conserves natural resources which are on the verge of depletion. Due to its zero emission the Project activity also helps in avoiding significant amount of GHG emissions and specific pollutants like SOx, NOx, and SPM associated with the conventional thermal power generation facilities.

Table 1: Sustainable Development Contributions

Row number	SDG Target	SDG Indicator	Net Impact on SDG Indicator	Current Project Contributions	Contributions Over Project Lifetime
Sequential row number	*SDG Target number*	*Number and text of SDG indicator or, if no official SDG indicator is applicable, user-defined indicator*	*Indicate the project's contribution to the SDG Indicator (implemented activities to increase or decrease)*	*Brief description of the quantifiable impact of the project's activities related to the SDG indicator, during the monitoring period.*	*Brief description of the cumulative quantifiable impact of the project's activities related to the SDG indicator, over the project lifetime.*
1)	7.2	7.2.1: Renewable energy share in the total final energy consumption	Implemented activities to increase	About 130,978 MWh renewable electricity has supplied to Central Grid of Indian Electricity grid during the reported period that helps to increase the renewable energy share in the energy mix.	A total of 1,079,929 MWh renewable electricity has been supplied to the Indian grid by the project activity since commissioning.

<table>
<tr>
<td>2)</td>
<td>8.8</td>
<td>Protect labour rights and promote safe and secure working environments for all workers</td>
<td>Implemented activities to increase</td>
<td>Approximately 150 employees are employed directly/indirectly in the projects. To ensure occupational health and safety various trainings has been conducted:
<table>
<tr><th>Date</th><th>Name of the Training</th><th>No of Employee Benefitted</th></tr>
<tr><td>05/01/2022</td><td>Importance of PPEs during Work</td><td>25</td></tr>
<tr><td>06/01/2022</td><td>Fire Fighting</td><td>13</td></tr>
<tr><td>07/01/2022</td><td>First Aid</td><td>17</td></tr>
<tr><td>23/01/2022</td><td>Omicron</td><td>16</td></tr>
<tr><td>24/01/2022</td><td>Fire Mock Drill</td><td>14</td></tr>
<tr><td>24/01/2022</td><td>Fire Mock Drill</td><td>14</td></tr>
<tr><td>15/02/2022</td><td>Safety at Site & Importance of PPEs</td><td>8</td></tr>
</table>
</td>
<td>To ensure occupational health and safety 3 trainings has been conducted

Please refer Appendix II for supporting documents</td>
</tr>
</table>

3)	13.2.2	Total greenhouse gas emissions per yearavoided or removed	Implemented activities to increase	By generating 130,978 MWh renewable electricity the project has avoided emission of 126,432 tCO2e in the atmosphere.	Since commissioning the project has avoided emission of 1,042,456 tCO2e in the atmosphere.

2 SAFEGUARDS

2.1 No Net Harm

The project activity does not involve any major construction activity. It primarily requires the installation of Solar PVs interfacing the generators with the State Electricity Board by setting up HT transmission lines and installation of other accessories.

The report on "Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects" prepared by MNRE dated September 2013. This report clearly mentioned that solar power project activity operations do not result in direct air pollution, noise pollution. Please refer below web link for the same[4].

Thus, it is envisaged that the implementation of the project activity will not lead to any significant impacts on air, water, soil quality and ambience.

2.2 Local Stakeholder Consultation

The project has already been registered under VCS mechanism. The local stakeholder meeting was carried out for the project activity and the details of the same can be referred from the registered VCS PD.

There were no negative comments received during the meeting and stakeholders appreciated proactive efforts taken by project proponent towards reducing emissions.

As a part of continuous feedback from stakeholders, the PP has also placed a grievance register onsite where in the stakeholder can put down his/her complain and the same if found genuine will be addressed immediately.

However, there is no negative feedback has been reported within this monitoring period.

2.3 AFOLU-Specific Safeguards

Not applicable to this as this is not an AFOLU project activity.

[4] http://mnre.gov.in/file-manager/UserFiles/report-on-developmental-impacts-of-RE.pdf

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project activity involves the installation of Solar PVs. The total installed capacity of the project is 120 MW located across different states in India. The project is promoted by SolarArise India Projects Pvt. Ltd.

The project shall result in annual replacement of anthropogenic emissions of greenhouse gases (GHGs) estimated to be approximately 244,968 tCO_2e, thereon displacing 253,776 MWh/year amount of electricity from the gird over the 10 years crediting period.

Solar PV Project Technology Details –

The project activity aims to harness solar energy through installation of Solar PVs with total installed capacity of 120 MW.

a) The technical specification of 10 MW plant interconnection with grid on 23/06/2016 by Talettutayi Solar Projects Pvt Ltd are as follows:

S. No	Technical details of the equipment	Description
1	Technology Used	Poly Crystalline Silicon
2	Make of modules installed	Trina Solar
3	Model of the modules installed	TSM-310PC14, TSM-315PC14
4	Make & Model of Inverter	Make – ABB, Model - PVS-800-1000KW
5	Number of Inverters	10 Nos.
6	Make & Number of Transformers	Make- Voltamp Model- 2 MVA, 5 Nos.

b) The technical specification of 10 MW plant interconnection with grid on 23/06/2016 by Talettutayi Solar Projects Pvt Ltd are as follows:

S. No	Technical details of the equipment	Description
1	Technology Used	Poly Crystalline Silicon
2	Make of modules installed	Trina Solar
3	Model of the modules installed	TSM-310PC14, TSM-315PC14
4	Make & Model of Inverter	Make – ABB, Model - PVS-800-1000KW

5	Number of Inverters	10 Nos.
6	Make & Number of Transformers	Make- Voltamp Model- 2 MVA, 5 Nos.

c) The technical specification of 50 MW plant interconnection with grid on 10/08/2017 by Talettutayi Solar Projects Four Pvt Ltd are as follows:

S. No	Technical details of the equipment	Description
1	Technology Used	Poly Crystalline Silicon
2	Make of modules installed	JA Solar
3	Model of the modules installed	320 Wp & 325 Wp
4	Make & Model of Inverter	Make- Sungrow, Model- SG 2500
5	Number of Inverters	20 Nos.
6	Make & Number of Transformers	Make- Sudhir, Model- 5 MVA, 10 Nos. Make- Voltamp, Model- 50 MVA, 1 No.

d) The technical specification of 30 MW plant interconnection with grid on 05-01-2018 by Talettutayi Solar Projects One Pvt Ltd are as follows:

S. No	Technical details of the equipment	Description
1	Technology Used	Poly Crystalline Silicon
2	Make of modules installed	JA Solar
3	Model of the modules installed	320 Wp & 325 Wp
4	Make & Model of Inverter	Make- Sungrow, Model- SG 2500
5	Number of Inverters	12 Nos.
6	Make & Number of Transformers	Make- Silchar, Model- 5 MVA, 6 Nos. Make- Raychem, Model- 30 MVA, 1 No.

e) The technical specification of 20 MW plant interconnection with grid on 07-08-2019 by Talettutayi Solar Projects Two Pvt Ltd are as follows:

S. No	Technical details of the equipment	Description
1	Technology Used	Poly Crystalline Silicon
2	Make of modules installed	JA Solar
3	Model of the modules installed	325 Wp & 330 Wp
4	Make & Model of Inverter	Make- TBEA, Model- TBEA 3750, TBEA 5000
5	Number of Inverters	5 Nos. (4 Nos of TBEA 3750 and 1 Nos of TBEA 5000)

6	Make & Number of Transformers	Make- Silchar, Model- 5 MVA & 7.5MVA, 3 Nos. Make- Voltamp, Model- 20 MVA, 1 No.

3.2 Deviations

2.1.1 Methodology Deviations

No methodology deviation is applied during the monitoring period.

2.1.2 Project Description Deviations

Below deviation has been applied in the last monitoring period: -

In the registered PD, formula used in the calculation net electricity supplied to the grid was not mentioned correctly for the Karnataka state projects, hence the same was corrected in line with the JMRs (Form-B). This correction was considered as project deviation in the current monitoring period. The formula used in the monitoring plan for calculating the net electricity supplied to the grid was based on the B-Form values provided by KPTCL as follows for the Karnataka state projects: -

EGPJ, y = Export (Kwh)– 115% * Import (Kwh)– Transmission losses (Kwh)

This was in line with the actual monitoring procedure followed on the project activity.

The Project deviation was in line with the guidance provided under section 3.18.2 point 2. of VCS standard v4.3. However, it did not impact the existing applicability conditions of the methodology, additionality or the appropriateness of the baseline scenario.

No deviation has been applied in this monitoring period.

3.3 Grouped Projects

The project is not a grouped project thus this is not applicable.

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

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Data / Parameter	$EF_{grid, OM, y}$
Data unit	tCO_2/MWh
Description	Operating margin CO_2 emission factor for the project electricity system in year y
Source of data	Calculated from CEA database, Version 12, May 2017
Value applied	0.9843 tCO_2/MWh

Justification of choice of data or description of measurement methods and procedures applied	Calculated as per "Tool to calculate the emission factor for an electricity system, version 05" as 3-year generation weighted average using data for the years 2013-14, 2014-15 & 2015-16. The data are obtained from "CO2 Baseline Database for Indian Power Sector" version 12, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of Data	• For the calculation of the Baseline Emission
Comments	This parameter is fixed ex-ante for the entire crediting period.

Data / Parameter	$EF_{grid, BM, y}$
Data unit	tCO_2/MWh
Description	Build margin CO_2 emission factor for the project electricity system in year y
Source of data	Calculated from CEA database, Version 12, May 2017
Value applied	0.9083 tCO2/MWh
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per "Tool to calculate the emission factor for an electricity system, version 05" as per the latest data available for the most recent year 2015-16. The data is obtained from "CO2 Baseline Database for Indian Power Sector" version 12, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of Data	• Calculation of baseline emissions
Comments	The above value is fixed, and it is same for the entire crediting period

Data / Parameter	$EF_{grid, CM, y}$
Data unit	tCO_2/MWh
Description	Combined margin CO_2 emission factor for the project electricity system in year y
Source of data	Calculated from CEA database, Version 12, May 2017
Value applied	0.9653 tCO2/MWh
Justification of choice of data or description of measurement methods and procedures applied	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	• Calculation of baseline emissions
Comments	The above value is fixed, and it is same for the entire crediting period

4.2 Data and Parameters Monitored

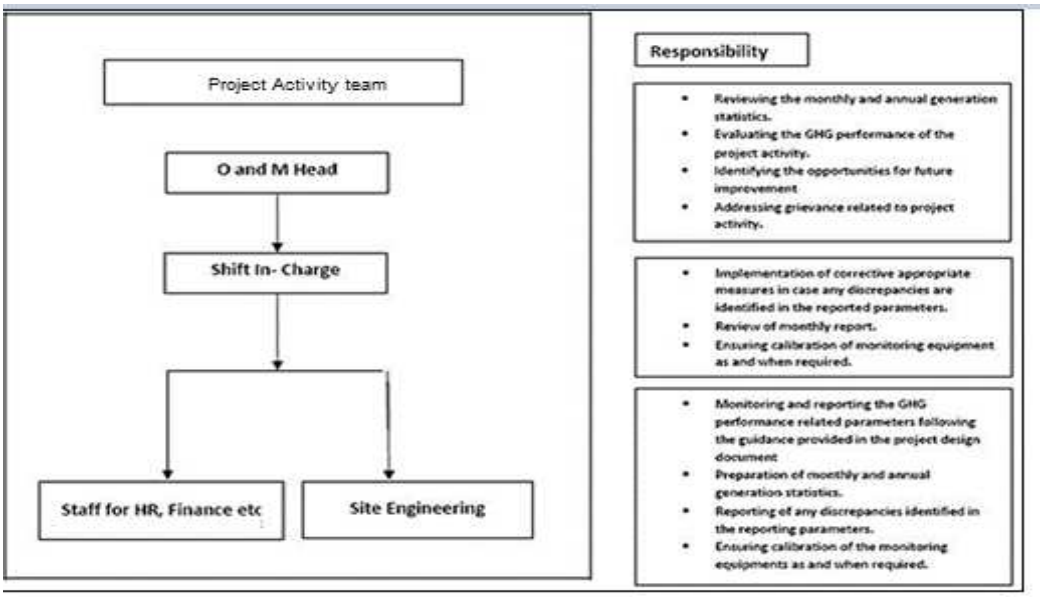
Data / Parameter	$EG_{PJ, y}$
Data unit	MWh
Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh
Source of data	Credit note/ JMR/Form B reports/ monthly generation report from respective state electricity board/DISCOM
Description of measurement methods and procedures to be applied	The difference of final value of export and import is used for monthly values of net electricity supplied to the grid by the project activity and same value will be considered for ER calculations for Telangana & Maharashtra sites. The difference of final value of export and import (115%) & transmission loss is used for monthly values of net electricity supplied to the grid by the project activity and same value will be considered for ER calculations for Karnataka sites. For detailed schedule of Calibration of energy meters involved in project activity please refer Appendix 1.
Frequency of monitoring/recording	Continuous measurement & monthly recording
Value monitored	130,978 MWh
Monitoring equipment	The electricity exported / supplied by the plant to pooling substation and further to MSEDCL/RRVPNL/TSTRANSCO/KPTCL substation. This meter also measures electricity imported by the plant from the grid.
QA/QC procedures to be applied	The meters are 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. 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 will be 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. PP is getting value of net electricity supplied to

	grid and the same is considered the monitoring parameter. The billing is raised based on substation meters.
Purpose of the data	Calculation of baseline emissions
Calculation method	Telangana & Maharashtra sites: - Net electricity supplied to the grid by the project plant in a given month = Export (kWh)– Import (kWh) Karnataka sites: - Net electricity supplied to the grid by the project plant in a given month = Export (kWh) – 115% * Import (kWh) – transmission loss
Comments	Data will be archived in paper & electronic form for two years after the end of crediting period or of the last issuance of VERs for this project activity, whichever occurs later.

4.3 Monitoring Plan.

Where appropriate monitoring plan is developed in accordance with the modalities and procedures for CDM project activities and is proposed for grid-connected solar power project being implemented. The monitoring plan, which will be implemented by the project participant describes about the monitoring organization, 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:



Data Measurement

The export and import energy will be measured continuously using above mentioned Main and Check meters located at the substations. Readings of meters shall be taken on monthly basis by authorized officer of SEB in the presence of PP or representative of PP. Based on the Meter Reading Statement to PP, invoices will be raised. These invoices can be used for cross checking the meter readings taken for the respective 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 plant supervisor. The period of storage of the monitored data will be 2 years after the end of crediting period or till the last issuance of VCUs for the project activity whichever occurs later.

Emergency preparedness

The project activity will not result in any unidentified activity that can result in substantial emissions from the project activity. No need for emergency preparedness in data monitoring is visualized.

In the event that the main meter, which is used to record the net electricity exported by the project, is found to be faulty it will be repaired or replaced and the data from the check meter will be used in its place. In the unlikely event that the check meter fails it will also be repaired or replaced

Personnel training

In order to ensure a proper functioning of the project activity and a properly monitoring of emission reductions, the staff will be trained. The plant helpers will be trained in equipment operation, data recording, reports writing, operation and maintenance and emergency procedures in compliance with the monitoring plan.

QA/QC procedures

The energy meters at the feeders are maintained and owned by state electricity board. Neither the project proponent nor the site personnel have any control over it. The records will be crosschecked with the records of sold electricity to state electricity board. The meters are calibrated by state electricity board at-least once in five years.

Apportioning

In case the dates of a particular monitoring period do not match with the dates of the billing cycle, the net electricity exported to the grid would be calculated from: Apportioning the net electricity exported to grid, as recorded in the consolidated Share Certificate/ JMR Report / Credit Notes certified by the respective state discom, based on the number of days in the monitoring period and the number of days for which Share Certificate / JMR Report/ Credit Notes was prepared.

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

As per the approved consolidated Methodology ACM0002 (Version 18.1) para 42:

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

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

Where:

$\mathbf{BE_y}$ = Baseline emissions in year y (tCO_2/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 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" (t CO_2/MWh)

Grid Emission Factor

The grid emission factor is fixed ex-ante in the PD as given below:

Parameter	Value
OM	0.9843
BM	0.9083
CM	0.9653

Therefore,

BE_y = 130,978 x 0.9653

= 1,261,432 tCO_2e (Rounded Down)

5.2 Project Emissions

Not Applicable, since project emissions from the solar power project activity is zero as per ACM0002 methodology. Hence, $PE_y = 0$.

5.3 Leakage

Not Applicable, since leakage emissions from the solar power project activity is zero as per ACM0002 methodology. Hence, $LE_y = 0$.

5.4 Net GHG Emission Reductions and Removals

Year	Baseline emissions or removals (tCO_2e)	Project emissions or removals (tCO_2e)	Leakage emissions (tCO_2e)	Net GHG emission reductions or removals (tCO_2e)
2021 (01/09/2021 to 31/12/2021)	65,840	0	0	65,840
2022	60,592	0	0	60,592

(01/01/2022 to 31/03/2022)				
Total	126,432	0	0	126,432

It is to be noted here that as per the estimated emission reduction to be achieved from the project activity for the current monitoring period is 142,283, tCO_2e, whereas actual emission reductions achieved are 126,432 which is approximately -11. 14% lower than the estimated emission reductions. This is due to low PLF achieved during the current monitoring period.

The generation of electricity depends upon many other climatic conditions e.g., availability of sunlight, grid availability etc., and not within the control of the project participant. The lower generation during the current verification period is hence due to certain natural conditions.

APPENDIX 1: <METER CALIBRATION DETAILS>

a. **Meter Calibration details of 10 MW solar project by Talettutayi Solar Projects Pvt Ltd**

Metering Location: 132/33 kV Substation Control Room, Gadwal.

Meter Sl. No.	Make	Class	Calibration date	Due date for Calibration
APX00685 (Main Meter)	Secure	0.2 s	03/12/2020	03/12/2025
APX00686 (Check Meter)	Secure	0.2 s	03/12/2020	03/12/2025
APX00687(Standby Meter)	Secure	0.2 s	03/12/2020	03/12/2025

b. **Meter Calibration details of 10 MW solar project by Talettutayi Solar Projects Six Pvt Ltd**

Metering Location: 132/33 kV Substation Control Room, Gadwal.

Meter Sl. No.	Make	Class	Calibration date	Due date for Calibration
APX00682 (Main Meter)	Secure	0.2 s	03/12/2020	03/12/2025
APX00684 (Check Meter)	Secure	0.2 s	03/12/2020	03/12/2025
APX00704(Standby Meter)	Secure	0.2 s	03/12/2020	03/12/2025

c. **Meter Calibration details of 50 MW solar project by Talettutayi Solar Projects Four Pvt Ltd**

Metering Location: Control Room, 132kV Telgaon Sub-Station

Meter Sl. No.	Make	Class	Calibration date	Due date for Calibration
02832405 (Main Meter)	Elster	0.2 s	22/12/2020	22/12/2025
02832406 (Check Meter)	Elster	0.2 s	22/12/2020	22/12/2025
02832404 (Standby Meter)	Elster	0.2 s	22/12/2020	22/12/2025

d. **Meter Calibration details of 30 MW solar project by Talettutayi Solar Projects One Pvt Ltd**

Metering Location: 110/33/11 KV MUSS Yelburga substation

Meter Sl. No.	Make	Class	Calibration date	Due date for Calibration
20007786 (Main Meter)	L&T	0.2 s	19/07/2021	19/07/2026
20007853 (Check Meter)	L&T	0.2 s	19/07/2021	19/07/2026

a. **Meter Calibration details of 20 MW solar project by Talettutayi Solar Projects Two Pvt Ltd**

Metering Location: 110/33/11 KV Kerehalli substation

Meter Sl. No.	Make	Class	Calibration date	Due date for Calibration
20009519 (New Main Meter)	L&T	0.2 s	16/02/2022	16/02/2027
20009520 (New Check Meter)	L&T	0.2 s	16/02/2022	0416/02/2027

APPENDIX II: SUPPORTING EVIDENCE FOR SDG

SDG 7.2: About 130,978 MWh renewable electricity has supplied to Indian grid during the reported period that helps to increase the renewable energy share in the energy mix.

SDG 8.8: To ensure occupational health and safety various trainings has been conducted. To systematically manage safety at SolarArise, have a well- defined EHS policy.

TATA POWER

THE TATA POWER CO LTD
TPREL SOLAR POWER PLANTS
Training Attendance

FORMAT NO : S-FM-09
RO-01-10-18

Course Code :
Course Title: Importance of PPE's at site during work
Organized By :
Coordinator : Mr. Abhishek Angulia
Faculty:
Duration : (Full Day/Half Day) From Date 05/01/2022 Hours To
Date 05/01/2022 Hours
Internal/External
Venue: CMS Office

Type: Awareness /Interactive /Brainstorming/Group Exercise/Practical/ Demonstration/Workshop/Certificate (Strike off which ever is not applicable)

List of Participants

Sl No	Name of the participant	Emp No	Organization/Plant Code	Designation	email	Contact Number	Signature
1	[illegible] Tidke			Helper		9146297796	[illegible]
2	[illegible] Tidke			Helper		9309550017	[illegible]
3	Mahesh bhole			Helper		[illegible]	[illegible]
4	Dipak Shinde			Helper		9922652036	[illegible]
5	[illegible] Kambale			Helper		8988408538	[illegible]
6	[illegible] Kothimbire			Helper		9822521374	[illegible]
7	KAWAKAR Ashok			Helper		9657622684	[illegible]
						9118711107	[illegible]
8	Ashok			Helper		9166324559	[illegible]
9	Abhiram Pawar			Helper		9172214604	[illegible]
10	Balram Kothimbire			Helper		9970194206	[illegible]
11	Ganesh bode			Helper		7498762223	[illegible]
12	[illegible] Tidke			Helper		9811953061	
13	Ravi Shinde			Helper		7887571101	[illegible]
14	Rohan Sangle			Helper		7742928500	[illegible]
15	Ashok Sangle			Helper		8766304559	[illegible]
16	Uday Sangle			Helper		9527641551	[illegible]
17	Keshav Ubale			Helper		8999350553	[illegible]
18	Akash Kadu			Helper		9011311618	[illegible]
19	Hanumant Jadhav			Helper		8788926324	[illegible]
20	Sandip Kothimbire			Helper		5769602405	[illegible]
21	Rohit [illegible]			Helper		9511715185	[illegible]
22	[illegible]			Helper		9146537857	[illegible]

TATA POWER

THE TATA POWER CO LTD
TPREL SOLAR POWER PLANTS
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RO-01-10-18

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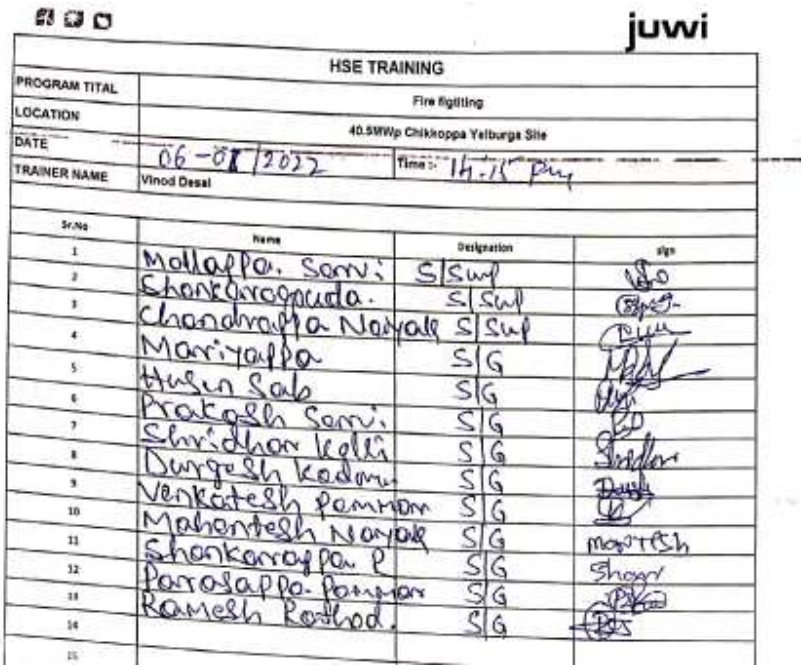
Coordinator: Mr. Abhishek Angulia
Faculty:
Duration : (Full Day/Half Day) From Date 05/01/2022 Hours To
Date 05/01/2022 Hours
Internal/External
Venue: CMS Office

Type: Awareness /Interactive /Brainstorming/Group Exercise/Practical/ Demonstration/Workshop/Certificate (Strike off which ever is not applicable)

List of Participants

Sl No	Name of the participant	Emp No	Organization/Plant Code	Grade /Designation	email	Contact Number	Signature
23	Hanumant Sonwalkar			Het Operator		9999984912	[illegible]
24	Pravin Aute			Helper		9561453137	[illegible]
25	Tukaram Tidke			Helper		9325430445	[illegible]
26							

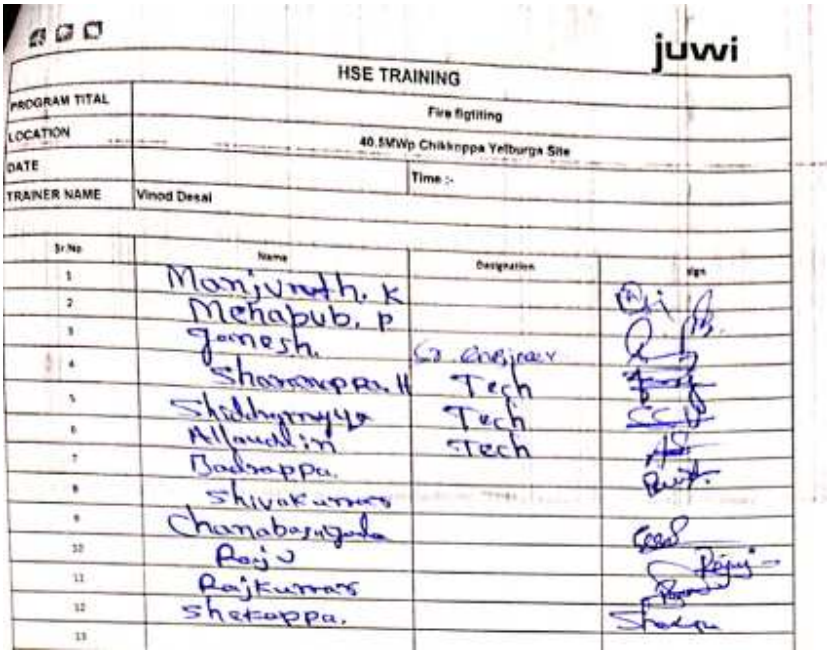


juwi

HSE TRAINING

PROGRAM TITAL	Fire figtting
LOCATION	40.5MWp Chikkoppa Yelburga Site
DATE	06-08-2022 Time :- 11.15 pm
TRAINER NAME	Vinod Desai

Sr.No	Name	Designation	sign
1	Mallappa. Sarvi	S/Sup	
2	Shankrappauda.	S/Sup	
3	Chandrappa Nayak	S/Sup	
4	Mariyappa	S/G	
5	Husen Sab	S/G	
6	Prakash Sarvi	S/G	
7	Shridhar kolli	S/G	
8	Durgesh kadam	S/G	
9	Venkatesh Pamman	S/G	
10	Mahantesh Nayak	S/G	
11	Shankarappa. P	S/G	
12	Parasappa. Pamman	S/G	
13	Ramesh Rathod.	S/G	
14			
15			



juwi

HSE TRAINING

PROGRAM TITAL	Fire figtting
LOCATION	40.5MWp Chikkoppa Yelburga Site
DATE	Time :-
TRAINER NAME	Vinod Desai

Sr.No	Name	Designation	sign
1	Manjunath. K		
2	Mehabub. P		
3	Ganesh.	Sr. Engineer	
4	Sharanappa. H	Tech	
5	Siddayya	Tech	
6	Allauddin	Tech	
7	Badsappa.		
8	Shivakumar		
9	Channabasayya		
10	Raju		
11	Rajkumar		
12	Shetappa.		
13			

juwi

HSE TRAINING

PROGRAM TITLE	Induction
LOCATION	40.5MWp Chikkoppa Yelburga Site
DATE	07/01/22 Time :- 14:30 pm
TRAINER NAME	Vinod Desai

Sr.No	Name	Designation	sign
1	Manjunath	Engg	
2	Allauddin	Tech	
3	Shiddramayya	Tech	
4	Badrappa	P. helper	
5	Ambresh	"	
6	channabasavanagouda	"	
7	Shivukumar	"	
8	Rajakumar	"	
9	Umesh	"	
10	Raju	"	
11	Shekappa	Store keeper	
12	Prakash	helper	P.B. Patil
13	Veeresh	"	V.M. Kolli
14	Laxman	"	
15	Shivu T	"	
16	muttappa	"	
17	shankrappa	"	
18		"	

1. **Masks and sanitizers were distributed to all workman in Site**
2. **Hand washing facility has been arranged near the main gate**

2X10MW TT & TT6 Gadwal TS

How To Prevent from Fire Mock Drill Date:24.01.2022

- Types of Fire
- Fire Triangle
- How to Break Fire Triangle
- Types of Fire Extinguisher and Their Use
- Which Fire Extinguisher Use for Which Fire

VIKRAM SOLAR
TRAINING ATTENDEES RECORD

DATE: 24/01/2022 TOPIC: How to Prevent from Fire.
SITE: 2x 10 MW TT &TTG, Gadwal
Speech Points: ① Fire Triangle. ② How to Break Fire Triangle. ③ Types of Fire extinguisher and Their Use. ④ Which Extinguisher Use for which fire.

S.No	NAME	DESIGNATION	SIGNATURE
1	Ramesh muthili	Eng	
2	J. Sridhar	Tech	
3	M. Krishna	Tech	
4	Mahesh	SO	
5	Raju	S/V	
6	K. Ramudu	S/V	
7	M. Madhusudhan	SO	
8	T. Partha ramudu	SO	
9	Kumar	S/V	
10	[illegible]	S/V	
11	J. Rajashekar	S/V	
12	R. [illegible]	S/V	
13	R. Bhavath Kumar	S/V	
14	Muzeeb	Electrician	

SDG 13.0: By supplying 130,978 MWh clean electricity to Indian grid, the project avoided release of 126,432 tCO2e into the atmosphere during the reporting period.