



SOLAR POWER PROJECT BY MYTRAH ENERGY INDIA PRIVATE LIMITED



Document Prepared by EKI Energy Services Limited

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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 372 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 638,520 tCO_{2e} per year, thereon displacing 681,607 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:-

Sl. No	Name of SPVs	Capacity (MW)	COD	Site	Connecti on with Grid	State	Usage
1	Mytrah Abhinav Power Pvt Ltd	8 MW	30-June-2017	Thimajipet	Indian Grid	Telangana	Sale to State Discom
		8 MW	19-July-2017	Arvapally			
		15 MW	05-December-2017	Domakonda			
		11 MW	19-August-2017	Alampur			
		15 MW	21-August-2017	Gadwal			
		15 MW	02-March-2018	Tandur			
		15 MW	27-February-2018	Nagarkurnool			
2	Mytrah Adarsh Power Pvt Ltd	15 MW	05-December-2017	Reddypet	Indian Grid	Telangana	Sale to State Discom
		15 MW	22-November-2017	Chegunta			
		15 MW	23-October-2017	Thunkibollar			

				am			
		15 MW	08-November-2017	Tungathurthy			
		15 MW	25-September-2017	Guntipally			
		15 MW	23-May-2018	Shanigaram			
3	Mytrah Agriya Power Pvt Ltd	50 MW	25 MW on 22-November-2018 25 MW on 26-November-2018	Kamareddy	Indian Grid	Telangana	Sale to State Discom
4	Mytrah Akaash Power Pvt Ltd	50 MW	12.5 MW on 16-March-2018 17.5 MW on 12-April-2018 20 MW on 22-November-2018	K.M.Pally	Indian Grid	Telangana	Sale to State Discom
5	Mytrah Aadhya Power Pvt Ltd	25 MW	19-June-2017	Bareta	Indian Grid	Punjab	Sale to State Discom
		25 MW	19-June-2017	Balran		Punjab	
6	Mytrah Advait Power Pvt Ltd	15 MW	09-February-2018	Hunagund	Indian Grid	Karnataka	Sale to State Discom
		15 MW	08-February-2018	Sindagi			
7	Mytrah Akshaya Energy Pvt Ltd	15 MW	23-January-2018	Raibagh	Indian Grid	Karnataka	Sale to State Discom

These are the SPVs of Mytrah Energy India Private Limited and the project is promoted by Mytrah Energy India Private Limited. As on date, the entire 372 MW capacity has been commissioned.

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 19.0¹

Tools referred with above methodology are:

- Tool to calculate the emission factor for an electricity system² - Version 07.0 (EB 100, Annex 04)
- Tool for the demonstration and assessment of additionality³ - Version 07.0.0 (EB 70, Annex 08)

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”.

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 22 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 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.

¹ <http://cdm.unfccc.int/methodologies/DB/VJI9AX539D9MLOPXN2AY9UR1N4IYGD>

² <http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-07-v7.0.pdf>

³ <http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-01-v7.0.0.pdf>

Total emission reductions achieved in this monitoring period:

During the Current Monitoring Period from 01-April-2020 to 31-May-2021 (First and last date included) the project activity has supplied 786,331 MWh of electricity, and thus the total VCUs achieved during this monitoring period is 736,377 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 19.0⁴

The project is not a grouped project activity.

1.3 Project Proponent

Organization name	Mytrah Energy India Private Limited
Contact person	Mr. Santosh Kotti
Title	Assistant Manager
Address	8001, 8th Floor, Q-City, Nanakramguda, Gachibowli, Hyderabad 500032, Telangana, India
Telephone	+91 9907534900
Email	manish@enkingint.org

1.4 Other Entities Involved in the Project

Organization name	EKI Energy Services Limited
Role in the Project	Project Consultant
Contact person	Anjali
Title	Project Manager

⁴ <http://cdm.unfccc.int/methodologies/DB/VJI9AX539D9MLOPXN2AY9UR1N4IYGD>

Address	Office No. 201, EnKing Embassy, Plot No. 48, Scheme No. 78, Part II, Vijay Nagar INDORE – 452010, India.
Telephone	+91 9109120640
Email	anjali@enkingint.org

1.5 Project Start Date

Start date of the project activity is the earliest date of interconnection with the grid i.e. 19-June-2017. This is the date of commissioning of 2 * 25 MW solar PV project activity by Mytrah Aadhya Power 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: 19-June-2017

Crediting Period End date: 18-June-2027

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

1.7 Project Location

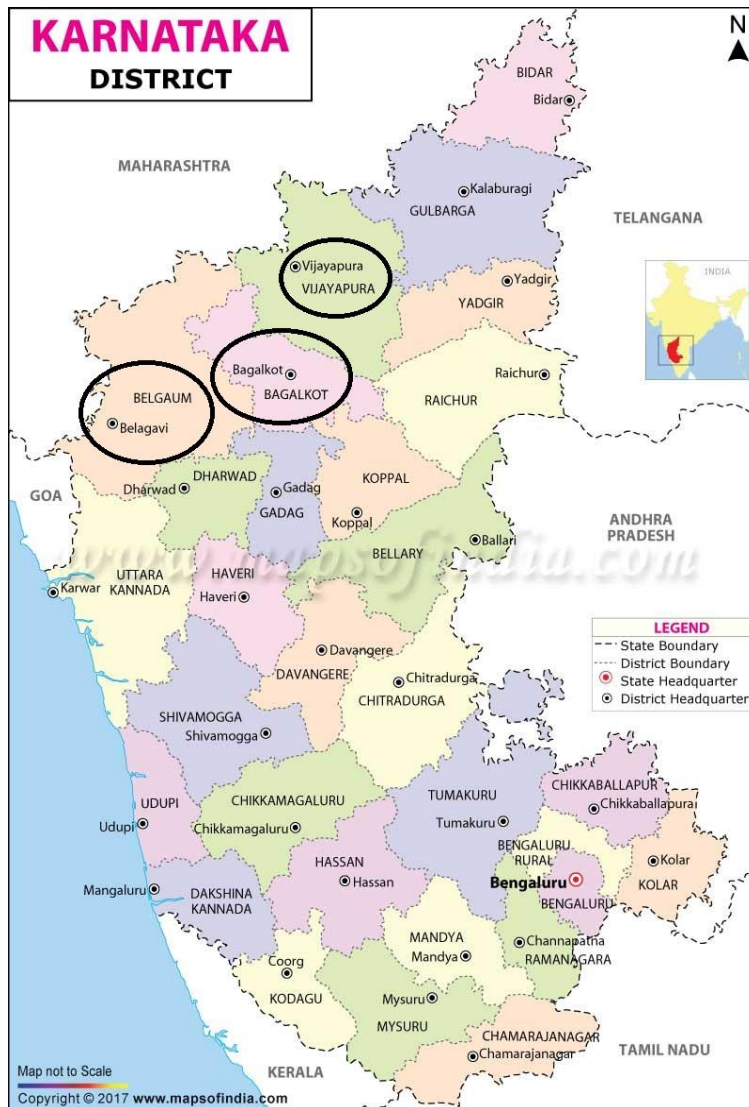
The details of the project locations are mentioned in the table below

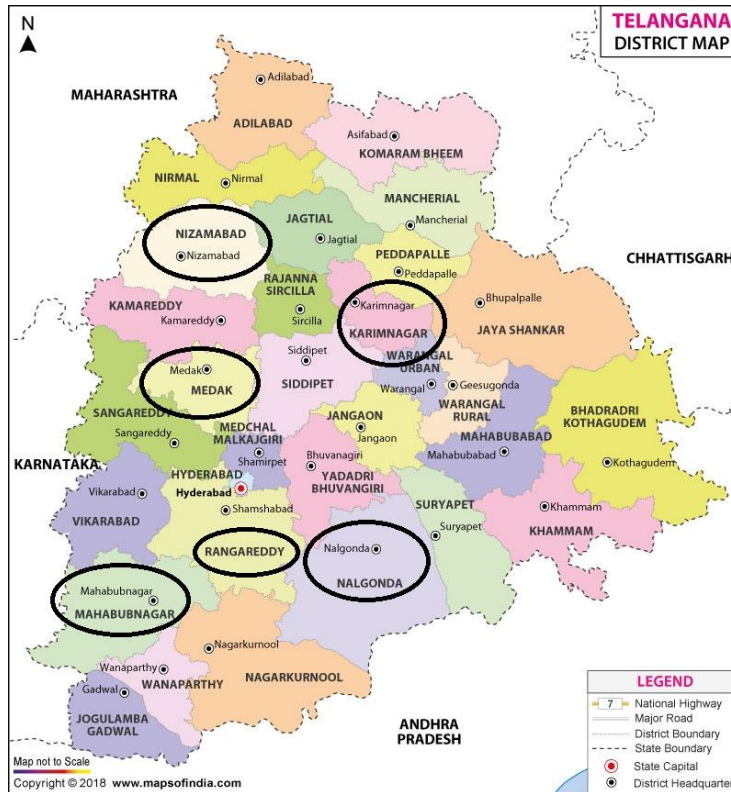
Sl. No	Name of SPVs	Site	District	State	Latitude (N)	Longitude (E)
1	Mytrah Abhinav Power Pvt Ltd	Thimmajipet	Mahabubnagar	Telangana	16° 41.321' 0"	78° 10' 33.12"
		Arvapally	Nalgonda		17° 18.134' 0"	79° 30.879' 0"
		Domakonda	Nizamabad		18° 16' 12.00"	78° 27' 40.26"
		Alampur	Gadwal		15° 55' 2"	77° 57' 47"
		Gadwal	Gadwal		16° 15' 59"	77° 46' 59"
		Tandur	Rangareddy		17° 19' 16"	77° 36' 42"
		Nagarkurnool	Mahabubnagar		16° 29'	78° 26' 1.24"

					21.89"	
2	Mytrah Adarsh Power Pvt Ltd	Reddypet	Nizamabad	Telangana	18° 26' 22.6752"	78° 23' 44.1060"
		Chegunta	Medak		17° 56' 20.3604"	78° 32' 07.1700"
		Thunkibollaram	Siddipet		17° 45' 06.0012"	78° 33' 01.0008"
		Tungathurthy	Nalgonda		17° 27' 24.2064"	79° 38' 15.0180"
		Guntipally	Nalgonda		16° 41' 56.6880"	78° 48' 22.2480"
		Shanigaram	Siddipet		18° 10' 39.5004"	79° 02' 04.8804"
3	Mytrah Agriya Power Pvt Ltd	Kamareddy	Kamareddy	Telangana	18° 23' 03.0372"	78° 16' 11.9136"
4	Mytrah Akaash Power Pvt Ltd	KM Palli	Nalgonda	Telangana	16° 46.380' 0"	78° 52.095' 0"
5	Mytrah Aadhya Power Pvt Ltd	Bareta	Mansa	Punjab	29° 52' 30.00"	75° 40' 34.68"
		Balran	Sangrur	Punjab	29° 50' 38.40"	75° 50' 38.40"
6	Mytrah Advaith Power Pvt Ltd	Hunagund,	Bagalkot	Karnataka	16° 0' 0.00"	76° 06' 0.00"
		Sindagi,	Bijapur		17° 0' 0.00"	76° 12' 0.00"
7	Mytrah Akshaya Energy Pvt Ltd	Raibagh,	Belagavi	Karnataka	16° 24' 0.00"	74° 54' 0.00"

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 19.0⁵

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 system⁶ - Version 07.0 (EB 100, Annex 04)

⁵ <http://cdm.unfccc.int/methodologies/DB/VJI9AX539D9MLOPXN2AY9UR1N4IYGD>

⁶ <http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-07-v7.0.pdf>

- Methodological Tool- Tool for the demonstration and assessment of additionality⁷ - 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.

1.10 Other Forms of Credit

- Emission Trading Programs and Other Binding Limits: Net GHG emission reductions or removals generated by the Project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions in any Emission Trading program or other binding limits.
- Other Forms of Environmental 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 India⁸.

1.11 Sustainable Development

Contribution to sustainable development:

Ministry of Environment, Forest and Climate Change, has stipulated economic, social, environment and technological well-being as the four indicators of sustainable development. The project contributes to sustainable development using the following ways.

Social well-being: The project would help in generating employment opportunities during the construction and operation phases. The project activity will lead to development in infrastructure in the region like development of roads and also may promote business with improved power generation.

Economic well-being: The project is a clean technology investment in the region, which would not have been taken place in the absence of the VCS benefits the project activity will also help to reduce the demand supply gap in the state.

⁷ <http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-01-v7.0.0.pdf>

⁸ https://recregistryindia.nic.in/index.php/general/publics/accredited_regens_pdf

The project activity will generate power using zero emissions Solar PV based power generation which helps to reduce GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the conventional thermal power generation facilities.

Technological well-being: The successful operation of project activity would lead to promotion of Solar based power generation and would encourage other entrepreneurs to participate in similar projects

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.

2 SAFEGUARDS

2.1 No Net Harm

The project activity does not involve any major construction activity. It primarily requires the installation of the solar PV panels, 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 PV project activity operations do not result in direct air pollution, noise pollution. Please refer below web link for the same⁹.

Thus, there is no any significant impact due to implementation of project activity on air, water, soil quality and ambience are envisaged due to the project activity.

2.2 Local Stakeholder Consultation

As a part of continual improvement process, feedback from the associated stakeholders is vital, therefore a dedicated Visitor register cum grievance register has been placed at the project site which is accessible to stakeholders to provide their feedback on the project. It is appropriate publicly accessible location at which local stakeholders can provide their feedback on the project. This location is also conducive to continuous and regular checks for stakeholder comments. For the global stakeholders, the suggestion and the grievance can be submitted to mail@mytrah.com

⁹ <http://mnre.gov.in/file-manager/UserFiles/report-on-developmental-impacts-of-RE.pdf>

At the time of project registration, Stakeholder meeting was organized in order to identify the major challenges around the area, stakeholders are invited well in advance through printed invitation, calls, meeting and a notice is placed around the local common areas. Various CSR activities around site are carried out with proper stakeholder requirements meeting. No any negative comments received during stakeholder meeting.

The stakeholders are also requested to share their experiences and grievances on continuous basis. Registers is used to records the grievances and feedback. Grievance register is placed at the main gate of site office and is accessible to everyone. During the current monitoring period, positive feedbacks had been received regarding site operation. No any grievances received during the current monitoring period, therefore, no any mitigation measures were required. In case of grievances, the nature of probable resolution is discussed with the plant head office and implemented by the site in-charge.

2.3 AFOLU-Specific Safeguards

This section is not applicable here as the project activity is a solar project activity.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project activity involves the installation of Solar PV project. The total installed capacity of the project is 372 MW of Solar PV plant located at different states in India. The project is promoted by **Mytrah Energy India Private Limited**.

The Project activity is a new facility (Greenfield) and the electricity generated by the project will be exported to the Indian electricity grid. The project will therefore displace an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid. The Project Proponent plans to avail the VCS benefits for the project.

In the Pre- project scenario the entire 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.

The project shall result in replacing anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 638,520 tCO_{2e} per year, thereon displacing 681,607 MWh/year amount of electricity from the grid over the 10 years crediting period.

The commissioning details of the project activity is mentioned in section 1.1 of this monitoring report.

The project activity aims to harness solar energy through installation of Solar PV project with total installed capacity of 372 MW.

Solar PV Project Technology Details –

The technical specification for 15 MW solar project by Mytrah Advaith Power Private Limited at Hunagund site, Karnataka

Sl. No.	Technical details of the equipment ¹⁰	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 315, 320, 325 Total No. of Modules: 53040
2	Number of Inverters & Capacity	9 Inverters Capacity- 1667 KW
3	Number of Transformers & Capacity	No. of Transformers- 3 Capacity- 5 MVA (3 no. of Inverter transformers)

The technical specification for 15 MW solar project by Mytrah Advaith Power Private Limited at Sindagi site, Karnataka

Sl. No.	Technical details of the equipment ¹¹	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 315, 320, 325 Total No. of Modules: 54040
2	Number of Inverters & Capacity	9 Inverters Capacity- 1732 KW
3	Number of Transformers & Capacity	No. of Transformers- 3 Capacity- 5 MVA (3 no. of Inverter transformers)

The technical specification for 15 MW solar project by Mytrah Akshaya Energy Private Limited at Raibagh site, Karnataka

¹⁰ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

¹¹ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

Sl. No.	Technical details of the equipment ¹²	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 320, 325 Total No. of Modules: 53880
2	Number of Inverters & Capacity	9 Inverters Capacity- 1667 KW
3	Number of Transformers & Capacity	No. of Transformers- 3 Capacity- 5 MVA (3 no. of Inverter transformers)

The technical specification for 25 MW solar project by Mytrah Aadhya Power Private Limited at Bareta site, Punjab

Sl. No.	Technical details of the equipment ¹³	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 310, 315, 320 Total No. of Modules: 83160
2	Number of Inverters & Capacity	8 Inverters Capacity- 2500 KW
3	Number of Transformers & Capacity	No. of Transformers- 9 (8 Inverter transformers & 1 Power transformer) Capacity- 2.5 MVA (8 no. of Inverter transformers) 25 MVA (1 no. of Power transformer)

¹² It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

¹³ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 25 MW.

The technical specification for 25 MW solar project by Mytrah Aadhya Power Private Limited at Balran site, Punjab

Sl. No.	Technical details of the equipment ¹⁴	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 310, 315, 320, 335, 340, 345, 350 Total No. of Modules: 77760
2	Number of Inverters & Capacity	18 Inverters Capacity- 500 & 2500 KW
3	Number of Transformers & Capacity	No. of Transformers- 11 (10 Inverter transformers & 1 Power transformer) Capacity- 1.5 MVA (4 no. of Inverter transformers) 2.5 MVA (6 no. of Inverter transformers) 25 MVA (1 no. of Power transformer)

The technical specification for 8 MW solar project by Mytrah Abhinav Power Private Limited at Thimajipet site, Telangana

Sl. No.	Technical details of the equipment ¹⁵	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 310, 315, 320, 325 Total No. of Modules: 28920
2	Number of Inverters & Capacity	8 Inverters Capacity- 1000 KW

¹⁴ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 25 MW.

¹⁵ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 8 MW.

3	Number of Transformers & Capacity	No. of Transformers- 2 Capacity- 4 MVA (2 no. of Inverter transformers)
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The technical specification for 8 MW solar project by Mytrah Abhinav Power Private Limited at Arvapally site, Telangana

Sl. No.	Technical details of the equipment ¹⁶	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 315, 320 Total No. of Modules: 29760
2	Number of Inverters & Capacity	3 Inverters Capacity- 2520 KW
3	Number of Transformers & Capacity	No. of Transformers- 3 Capacity- 2.7 MVA (3 no. of Inverter transformers)

The technical specification for 15 MW solar project by Mytrah Abhinav Power Private Limited at Domakonda site, Telangana

Sl. No.	Technical details of the equipment ¹⁷	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 320, 325, 350 Total No. of Modules: 47449
2	Number of Inverters & Capacity	349 Inverters Capacity- 43 KW

¹⁶ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 8 MW.

¹⁷ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

3	Number of Transformers & Capacity	No. of Transformers- 4 Capacity- 3 MVA (1 no. of Inverter transformer) 4 MVA (3 no. of Inverter transformers)
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The technical specification for 11 MW solar project by Mytrah Abhinav Power Private Limited at Alampur site, Telangana

Sl. No.	Technical details of the equipment ¹⁸	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 315, 320 Total No. of Modules: 38300
2	Number of Inverters & Capacity	4 Inverters Capacity- 2700 KW
3	Number of Transformers & Capacity	No. of Transformers- 4 Capacity- 2.75 MVA (4 no. of Inverter transformers)

The technical specification for 15 MW solar project by Mytrah Abhinav Power Private Limited at Gadwal site, Telanagana

Sl. No.	Technical details of the equipment ¹⁹	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 315, 320, 325 Total No. of Modules: 53960

¹⁸ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 11 MW.

¹⁹ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

2	Number of Inverters & Capacity	15 Inverters Capacity- 1000 KW
3	Number of Transformers & Capacity	No. of Transformers- 4 Capacity- 4 MVA (3 no. of Inverter transformers) 3 MVA (1 no. of Inverter transformer)

The technical specification for 15 MW solar project by Mytrah Abhinav Power Private Limited at Tandur site, Telanaga

Sl. No.	Technical details of the equipment ²⁰	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 320, 325, 350 Total No. of Modules: 42180
2	Number of Inverters & Capacity	15 Inverters Capacity- 1000 KW
3	Number of Transformers & Capacity	No. of Transformers- 4 Capacity- 4 MVA (3 no. of Inverter transformers) 3 MVA (1 no. of Inverter transformer)

The technical specification for 15 MW solar project by Mytrah Abhinav Power Private Limited at Nagarkurnool site, Telanaga

Sl. No.	Technical details of the equipment ²¹	Description
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²⁰ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

²¹ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

1	Modules capacity and total No. of Modules installed	Module Capacity: 315, 320, 325 Total No. of Modules: 58240
2	Number of Inverters & Capacity	6 Inverters Capacity- 2500 KW
3	Number of Transformers & Capacity	No. of Transformers- 6 Capacity- 2.5 MVA (6 no. of Inverter transformers)

The technical specification for 15 MW solar project by Mytrah Adarsh Power Private Limited at Reddypet site, Telanaga

Sl. No.	Technical details of the equipment ²²	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 315, 320, 325 Total No. of Modules: 53360
2	Number of Inverters & Capacity	349 Inverters Capacity- 43 KW
3	Number of Transformers & Capacity	No. of Transformers- 4 Capacity- 4 MVA (3 no. of Inverter transformers) 3 MVA (1 no. of Inverter transformer)

The technical specification for 15 MW solar project by Mytrah Adarsh Power Private Limited at Chegunta site, Telanaga

Sl. No.	Technical details of the equipment ²³	Description
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²² It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

²³ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

1	Modules capacity and total No. of Modules installed	Module Capacity: 315, 320, 325 Total No. of Modules: 47168
2	Number of Inverters & Capacity	349 Inverters Capacity- 43 KW
3	Number of Transformers & Capacity	No. of Transformers- 3 Capacity- 5 MVA (3 no. of Inverter transformers)

The technical specification for 15 MW solar project by Mytrah Adarsh Power Private Limited at Thunkibollaram site, Telanagana

Sl. No.	Technical details of the equipment ²⁴	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 320, 325, 350 Total No. of Modules: 42852
2	Number of Inverters & Capacity	349 Inverters Capacity- 43 KW
3	Number of Transformers & Capacity	No. of Transformers- 4 Capacity- 4 MVA (3 no. of Inverter transformers) 3 MVA (1 no. of Inverter transformer)

The technical specification for 15 MW solar project by Mytrah Adarsh Power Private Limited at Tungathurthy site, Telanaga

Sl. No.	Technical details of the equipment ²⁵	Description
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²⁴ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

1	Modules capacity and total No. of Modules installed	Module Capacity: 320, 325 Total No. of Modules: 57440
2	Number of Inverters & Capacity	349 Inverters Capacity- 43 KW
3	Number of Transformers & Capacity	No. of Transformers- 4 Capacity- 4 MVA (3 no. of Inverter transformers) 3 MVA (1 no. of Inverter transformer)

The technical specification for 15 MW solar project by Mytrah Adarsh Power Private Limited at Guntipally site, Telanaga

Sl. No.	Technical details of the equipment ²⁶	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 320, 325, 330, 345 Total No. of Modules: 53280
2	Number of Inverters & Capacity	15 Inverters Capacity- 1000 KW
3	Number of Transformers & Capacity	No. of Transformers- 4 Capacity- 4 MVA (3 no. of Inverter transformers) 3 MVA (1 no. of Inverter transformer)

The technical specification for 15 MW solar project by Mytrah Adarsh Power Private Limited at Shanigaram site, Telanaga

²⁵ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

²⁶ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

Sl. No.	Technical details of the equipment ²⁷	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 320, 325, 350 Total No. of Modules: 53020
2	Number of Inverters & Capacity	15 Inverters Capacity- 1000 KW
3	Number of Transformers & Capacity	No. of Transformers- 5 Capacity- 2 MVA (2 no. of Inverter transformers) 3 MVA (1 no. of Inverter transformer) 4 MVA (2 no. of Inverter transformers)

The technical specification for 50 MW solar project by Mytrah Agriya Power Private Limited at Kamareddy site, Telanaga

Sl. No.	Technical details of the equipment ²⁸	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 315, 320, 325 Total No. of Modules: 107920
2	Number of Inverters & Capacity	20 Inverters Capacity- 2500 KW
3	Number of Transformers & Capacity	No. of Transformers- 22 Capacity- 31.5 MVA (2 no. of Inverter transformers)

²⁷ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 15 MW.

²⁸ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 50 MW.

		2.5 MVA (20 no. of Inverter transformers)
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The technical specification for 50 MW solar project by Mytrah Akaash Power Private Limited at K.M.Pally site, Telanaga

Sl. No.	Technical details of the equipment ²⁹	Description
1	Modules capacity and total No. of Modules installed	Module Capacity: 320, 325, 330 Total No. of Modules: 95493
2	Number of Inverters & Capacity	20 Inverters Capacity- 2500 KW
3	Number of Transformers & Capacity	No. of Transformers- 22 Capacity- 31.5 MVA (2 no. of Inverter transformers) 2.5 MVA (20 no. of Inverter transformers)

The project has been under operation since commissioning i.e 19-June-2017 which is the start date of the project activity, without any major breakdowns. Though normal breakdowns (as referred in appendix II) due to O&M measures are continuously being worked upon by the dedicated O&M contractor for the projects WEGs. The plant is running smoothly since commissioning with scheduled maintenance. No events or situations happened expect the normal breakdowns for the reported monitoring period that can alter the applicability of the applied methodology.

²⁹ It is to be noted that in future there is possibility of change in module configuration, however project capacity in total will remain same as 50 MW.

3.2 Deviations

2.3.1 Methodology Deviations

There is no methodology deviation.

2.3.2 Project Description Deviations

Deviation 1-

The VCS registered Joint PD & MR mentioned that 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. However, as per the state government policy of Karnataka 115% transmission losses are accounted in calculation of net electricity supplied to grid by the project activity. The formula used for net electricity calculation is mentioned below:-

$EG_{PJ,grid,y}$ or $EG_{PJ,facility,l,y}$ = Energy export - 115% Of Import Energy

This is the actual practice being followed at the site. The net electricity can be verified from the invoices provided by the PP. Thus deviation is requested to correct project description information. This deviation is permanent in nature.

This deviation is reducing the electricity generation thereby reducing the emission reductions which is conservative. This deviation does not have any impact on the project applicability, baseline scenario, additionality etc.

Deviation 2-

In the Verra Registry, the project proponent is listed as Mytrah Energy (INDIA) Ltd. While during the previous monitoring period, the project proponent has changed its name from "Mytrah Energy (INDIA) Ltd" to "Mytrah Energy India Private Limited". And it is also confirmed from PP that Mytrah Energy India Private Limited is the same legal entity as Mytrah Energy (INDIA) Ltd.

The deviation has already been approved during the monitoring period of 18-March-2019 to 31-March-2020.

3.3 Grouped Projects

The project activity is not a grouped project activity.

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter

$EF_{grid,OM,y}$

Data unit	tCO ₂ /MWh
Description	Operating Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 14, Dec 2018 ³⁰
Value applied	0.9610
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 07” as 3-year generation weighted average using data for the years 2015-16, 2016-17 & 2017-18. The data are obtained from “CO ₂ Baseline Database for Indian Power Sector” version 14, 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 in year y
Source of data	Calculated from CEA database, Version 14, Dec 2018 ³¹
Value applied	0.8644
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 07” as per the latest data available for the most recent year 2017-18. The data is obtained from “CO ₂ Baseline Database for Indian Power Sector” version 14, 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,CM,y}
Data unit	tCO ₂ /MWh

³⁰ http://www.cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver14.pdf

³¹ http://www.cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver14.pdf

Description	Combined Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 14, Dec 2018 ³²
Value applied	0.9368
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 CO₂ emission factor in year y (tCO₂/MWh) $EF_{grid,OM,y}$ = Operating margin CO₂ emission factor in year y (tCO₂/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
Comments	This parameter is fixed ex-ante for the entire crediting period.

4.2 Data and Parameters Monitored

For Karnataka Site

Data / Parameter	$EG_{PJ,grid,y}$ or $EG_{PJ,facility,l,y}$
Data unit	MWh
Description	Quantity of electricity generated and supplied by the project power plant to the grid
Source of data	Monthly joint meter reading reports
Description of measurement methods and procedures to be applied	The difference of final value of export and 115% of 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.
Frequency of monitoring/recording	Continuous measurement & monthly recording
Value monitored	95,934

³² http://www.cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver14.pdf

Monitoring equipment	The electricity exported / supplied by the plant to pooling substation and further to substation. This meter also measures electricity imported by the plant from the grid.
QA/QC procedures to be applied	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.³³ 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	Thus, Net electricity supplied to the grid by the project plant in a given month = Export, kWh – Import, kWh
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.

For Punjab Site

Data / Parameter	EG _{PJ,grid,y} or EG _{PJ,facility,l,y}
Data unit	MWh
Description	Quantity of electricity generated and supplied by the project power plant to the grid
Source of data	Monthly joint meter reading reports
Description of measurement methods and procedures to be	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

³³ http://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf

applied	calculations.
Frequency of monitoring/recording	Continuous measurement & monthly recording
Value monitored	95,799
Monitoring equipment	The electricity exported / supplied by the plant to pooling substation and further to substation. This meter also measures electricity imported by the plant from the grid.
QA/QC procedures to be applied	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.³⁴ 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	Thus, Net electricity supplied to the grid by the project plant in a given month = Export, kWh – Import, kWh
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.

For Telangana Site

Data / Parameter	EGPJ,grid,y or EGPJ,facility,l,y
Data unit	MWh
Description	Quantity of electricity generated and supplied by the project power plant to the grid

³⁴ http://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf

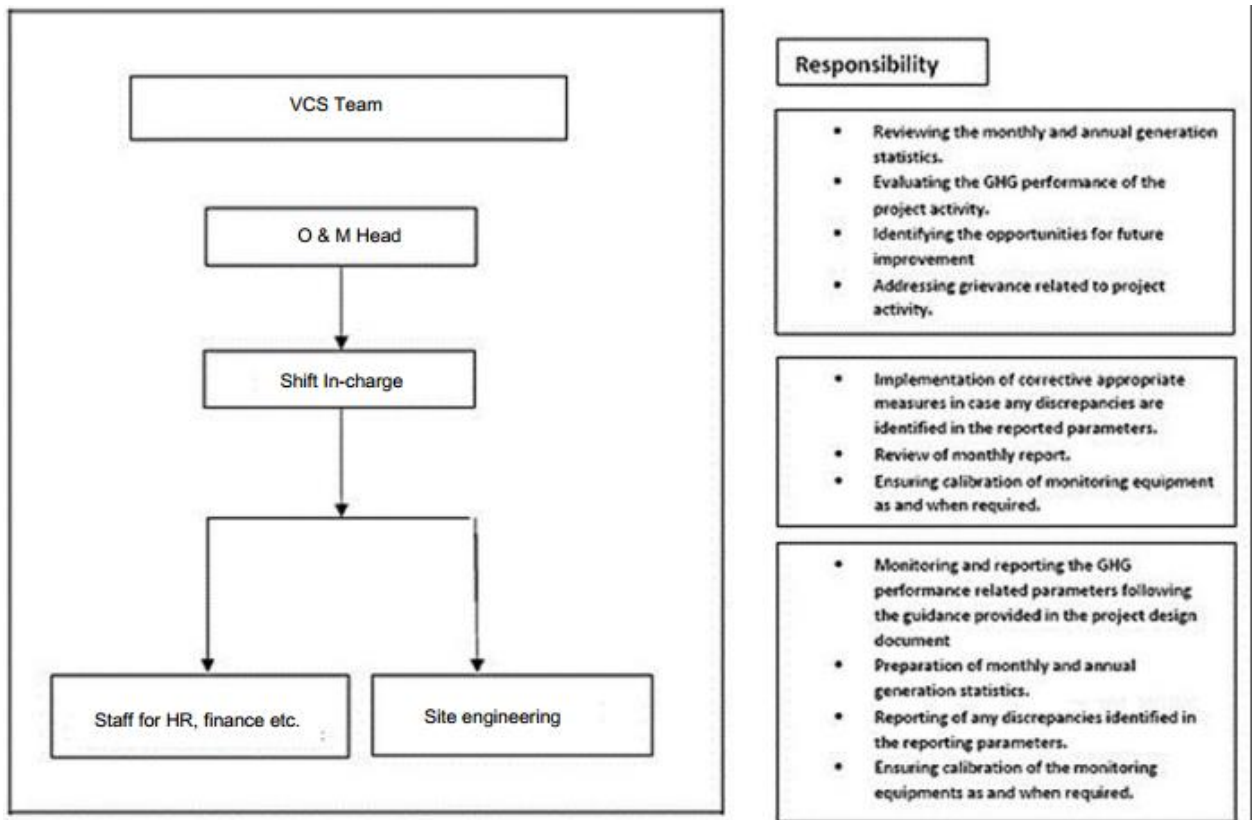
Source of data	Monthly joint meter reading reports
Description of measurement methods and procedures to be applied	The difference of final value of export and import is used for monthly values of net electricity supplied to the grid by the project activity and same value will be considered for ER calculations.
Frequency of monitoring/recording	Continuous measurement & monthly recording
Value monitored	594,598
Monitoring equipment	The electricity exported / supplied by the plant to pooling substation and further to substation. This meter also measures electricity imported by the plant from the grid.
QA/QC procedures to be applied	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.³⁵ 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	Thus, Net electricity supplied to the grid by the project plant in a given month = Export, kWh – Import, kWh
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.

³⁵ http://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf

4.3 Monitoring Plan

The 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 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:



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 VERs 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.

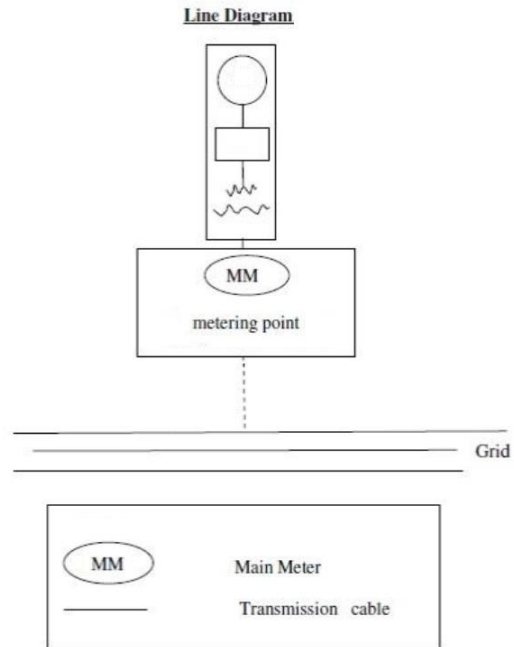
Personnel training

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.

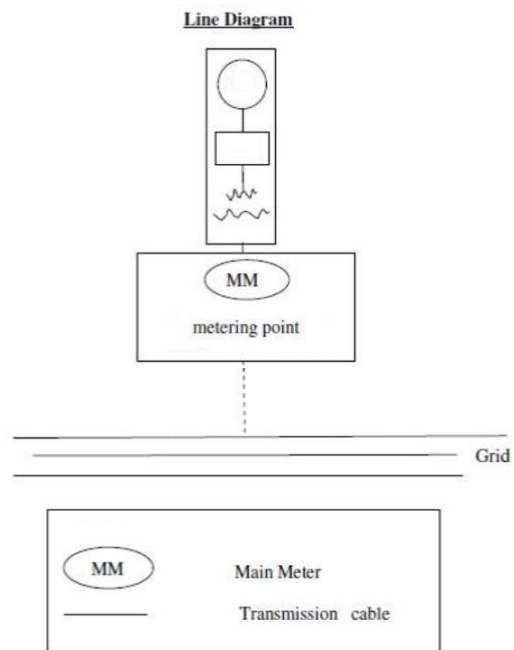
Metering Arrangement

Line diagram with metering arrangement for the solar project activity is shown below

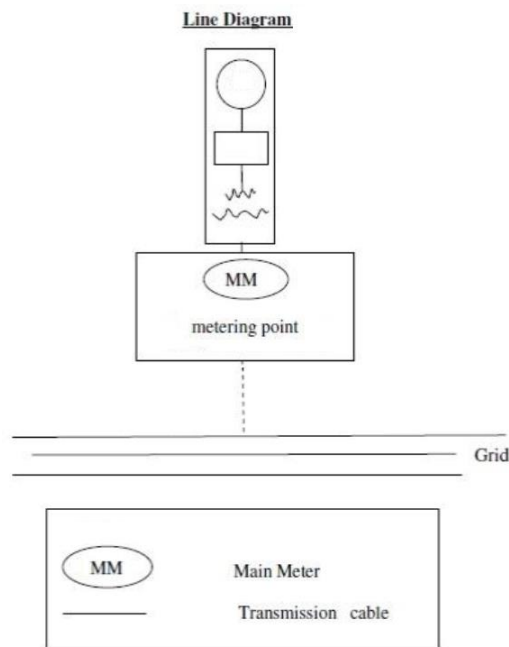
For Karnataka Site



For Punjab Site



For Telangana Site



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.

During the current monitoring period, apportioning has been done for the month of April 2020 and May-2021, since there is mismatch of monitoring period and billing cycle. The apportioning has been done by using the above mentioned approach

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

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

Where:

BE_y : Baseline emissions in year y (tCO₂e/yr)

$EG_{PJ,grid,y}$ or $EG_{PJ,facility,I,y}$: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the VCS 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 the latest version of the “Tool to calculate the emission factor for an electricity system” (tCO₂e/MWh)

Parameter	Unit	Value
$EG_{PJ,grid,y}$ or $EG_{PJ,facility,I,y}$	MWh	786,331
$EF_{grid,CM,y}$	tCO ₂ e	0.9368
BE_y	=	786,331 * 0.9368
	=	736,377 (Round down value)

5.2 Project Emissions

Not Applicable, since project emissions from the solar project activity is zero as per ACM0002 methodology.

5.3 Leakage

Not Applicable, since leakage emissions from the solar project activity is zero as per ACM0002 methodology.

5.4 Net GHG Emission Reductions and Removals

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2020 (01-April-2020 to 31-December-2020)	452,660	0	0	452,660
2021 (01-January-2021	283,717	0	0	283,717

to 31-May-2021)				
Total	736,377	0	0	736,377

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 745,231 tCO₂e, whereas actual emission reductions achieved are 736,377 tCO₂e, which is approximately 1% lower than the estimated emission reductions. The generation of electricity depends upon many other climatic conditions, which are not within the control of the project participant.

APPENDIX I: METER CALIBRATION DETAILS

Name of SPVs	Site	State	Capacity in MW	Meter Details			Accuracy Class	Date of Calibration	Due date of calibration ³⁶
				Main Meter Sl. No	Check Meter Sl. No	Standby Meter Sl. No			
Mytrah Advaita Power Private Limited	Hunagund	Karnataka	15	17151028	17151010	-	0.2 s	13-July-2018	12-July-2023
	Sindagi		15	17151045	17151050	-	0.2 s	03-December-2018	02-December-2023
Mytrah Akshaya Energy Private Limited	Raibagh	Karnataka	15	17115537	17115532	-	0.2 s	05-January-2019	04-January-2024
Mytrah Aadhya Power Private Limited	Bareta	Punjab	25	PBB48780	PBB48781	-	0.2 s	01-December-2018	30-November-2023
	Balran		25	PBB48803	PBB48802	-	0.2 s	26-November-2018	25-November-2023
Mytrah Abhinav Power Private Limited	Thimajipet	Telangana	8	APX01099	APX01100	APX01101	0.2 s	14-November-2018	13-November-2023
	Arvapally		8	HT01160859	HT01160860	HT01160861	0.2 s	22-January-2019	21-January-2024

³⁶ At the time of commissioning, newly calibrated Energy Meters were installed. Since the calibration frequency of the Energy Meter is once in five years, hence, during the current monitoring period, error factor is not applicable.

	Domakonda		15	TS04282	TS04283	TS04284	0.2 s	19-February-2018	18-December-2023
	Alampur		11	HT01161107	HT01161108	HT01161109	0.2 s	09-April-2018	8-April-2023
	Gadwal		15	HT01161111	HT01161112	HT01161113	0.2 s	22-February-2019	21-February-2024
	Tandur		15	2838075	2838076	2838077	0.2 s	04-April-2018	03-April-2023
	Nagakurnool		15	2831529	2831530	2831531	0.2 s	14-May-2018	13-May-2023
Mytrah Adarsh Power Private Limited	Reddypet	Telangana	15	TSS04286	TSS04288	TSS04274	0.2 s	15-May-2018	14-May-2023
	Chegunta		15	2838079	2838080	2838081	0.2 s	03-May-2018	02-May-2023
	Thunki Bollaram		15	2838071	2838072	2838073	0.2 s	10-May-2018	09-May-2023
	Tungathurthy		15	HT01161100	HT01161101	HT01161102	0.2 s	22-January-2019	21-January-2024
	Guntipally		15	2832434	2832435	2832436	0.2 s	29-March-2018	28-March-2023
	Shanigaram		15	APX01630	APX01635	APX01640	0.2 s	03-January-2019	02-January-2024
Mytrah Agriya Power Private Limited	Kamareddy	Telangana	50	APZ00439	APZ00440	APZ00441	0.2 s	01-October-2018	30-September-2023
Mytrah Akaash Power Private Limited	K.M. Pally	Telangana	50	17250998	17250999	17251000	0.2 s	04-January-2019	03-January-2024

APPENDIX II: BREAK-DOWN DETAILS

Date	Site	Total_Down_Time (Hrs)	Reason_Of_Down
25-April-2020	Shanigram	10:40	3C*185sq.mm.cable earth fault
26-April-2020	Shanigram	12:30	3C*185sq.mm.cable earth fault
27-April-2020	Shanigram	12:30	3C*185sq.mm.cable earth fault
28-July-2020	Shanigram	11:30	GSS End VCB tripped due to Y-phase vaccume interrupterr fulty.
12-May-2020	Shanigram	12:00	GSS End VCB tripped due to Y-phase vaccume interrupterr fulty.
16-May-2020	Nagakunool	10:10	HT cable fault
17-August-2020	Karnataka	11:00	33 Kv transformer breakdown
19-June-2020	Nagakunool	11:06	33 Kv transformer breakdown
19-June-2020	Nagakunool	11:05	33 Kv transformer breakdown
05-August-2020	Kamareddy	11:30	HT cable fault
20-August-2020	Bareta	11:30	33 Kv transformer breakdown
21-August-2020	Kamareddy	11:30	IDT tripped on OC current.
22-August-2020	Kamareddy	11:30	HT cable fault
18-September-2020	Balran	11:20	IDT tripped on OC current.
16-September-2020	Tunkibollaram	10:50	3C*185sq.mm.cable earth fault
03-October-2020	Shanigram	11:30	3C*185sq.mm.cable earth fault
24-October-2020	Nagakunool	11:44	33 Kv transformer breakdown
15-November-2020	Arvapally	11:45	33 Kv transformer breakdown
26-November-2020	Nagakunool	11:25	33 Kv transformer breakdown
27-November-2020	Shanigram	11:36	33 Kv transformer breakdown
28-August-2020	Thungathurty	11:32	33 Kv transformer breakdown
29-November-2020	Arvapally	11:43	33 Kv transformer breakdown
30-November-2020	Arvapally	11:41	33 Kv transformer breakdown
14-December-2020	Arvapally	12:13	33 Kv transformer breakdown
15-December-2020	Nagakunool	11:47	33 Kv transformer breakdown
16-January-2021	Shanigram	11:28	33 Kv transformer breakdown
20-January-2021	Alampur	11:20	For ICR-I 3 Core 185Sqmm Cable both ends Puncher and also on outgoing side CT failure
08-January-2021	Shanigram	11:20	For ICR-I 3 Core 185Sqmm Cable both ends Puncher and also on outgoing side CT failure
24-January-2021	Tandur	11:20	For ICR-I 3 Core 185Sqmm Cable both ends Puncher and also on outgoing side CT failure
18-February-2021	Tandur	11:20	For ICR-I 3 Core 185Sqmm Cable both ends Puncher and also on outgoing side CT failure
27-February-2021	Tandur	11:53	33 Kv transformer breakdown

03-March-2021	Tandur	11:45	33 Kv transformer breakdown
08-March-2021	Arvapally	11:37	33 Kv transformer breakdown
11-April-2021	Tandur	11:13	IDT tripped on OC current.
15-April-2021	Arvapally	11:15	IDT tripped on OC current.
16-April-2021	Damakonda	10:56	IDT tripped on OC current.
20-April-2021	Damakonda	11:05	IDT tripped on OC current.
05-May-2021	Bareta	11:02	IDT tripped on OC current.
06-May-2021	Bareta	11:02	IDT tripped on OC current.