



SOLAR POWER PROJECT BY MYTRAH ENERGY INDIA PRIVATE LIMITED



Project title	Solar Power Project by Mytrah Energy India Private Limited
Project ID	VCS 1784
Monitoring period	01-April-2024 to 31-March-2025 (Both the dates are including)
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VCS Standard Version	4.7 ¹
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¹ <https://verra.org/wp-content/uploads/2024/04/VCS-Standard-v4.7-FINAL-4.15.24.pdf>

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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 tCO₂e 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 commissioning details of the SPVs for the project are given in Section 3.1 Implementation Status of the Project Activity The first plant was commissioned on 19-June-2017 and last was commissioned on 26-November-2018.

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 construction phase has started In year 2017 and project become operational since 19-June-2017.

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 7, "Tool to calculate the emission factor for an electricity system version 07.0".

Total emission reductions achieved in this monitoring period:

During the Current Monitoring Period from 01-April-2024 to 31-March-2025 (Inclusive of both the dates) the project activity has supplied 655,136 MWh of electricity, and thus contributing to the GHG reductions of 613,718 tCO₂e.

1.2 Audit History

Audit type	Period	Program	Validation/verification body name	Number of years
Validation + Verification	19-June-2017 to 17-March-2019	VCS	LGAI Technological Centre S.A.	01 year 08 months and 27 days

Verification	18-March-2019 to 31-March-2020	VCS	TUV SUD south Asia Pvt. Ltd.	01 year 0 months 14 days
Verification	01-April-2020 to 31-May-2021	VCS	KBS certification Pvt. Ltd.	01 year 02 months 00 days
Verification	01-June-2021 to 28-February-2022	VCS	LGAI Technological Centre S.A.	00 year 09 months 00 days
verification	01-March-2022 to 31-March-2022	VCS	LGAI Technological Centre S.A.	00-year 01 month 00 days
Verification	01-April-2022 to 30-June-2023	VCS	VKU Certification Pvt. Ltd.	01 year 03 months 00 days
Verification	01-July-2023 to 31-March-2024	VCS	LGAI Technological Centre S.A.	00 year 09 months 00 days
Verification	01-April-2024 to 31-March-2025	VCS	VKU Certification Pvt. Ltd.	01 year 00 months 00 days

1.3 Sectoral Scope and Project Type

Sectoral scope ²	1 – Energy Industries (Renewable/non- renewable)
Project activity type	I - Renewable Energy generation project activity
Sectoral scope	Not applicable as this is not an AFOLU category project
AFOLU project category	Not applicable as this is not an AFOLU category project
Project activity type	Not applicable as this is not an AFOLU category project

1.4 Project Proponent

Organization name	JSW Neo Energy Limited
Contact person	Mr. Someswara Prasad
Title	AGM
Address	8001, 8th Floor, Q-City, Nanakramguda, Gachibowli, Hyderabad 500032, Telangana, INDIA
Telephone	+91 9663376046
Email	someswaraprasad.kathrikimatam@jsw.in

² ¹ Projects, activities, or methodologies may be developed under any of the 16 VCS sectoral scopes: <https://verra.org/programs/verified-carbon-standard/vcs-program-details/#sectoral-scopes>

1.5 Other Entities Involved in the Project

Organization name	Climera Carbon Private limited
Role in the project	Carbon consultant
Contact person	Rutuparn Nimonkar
Title	Project Manager
Address	Awfis, 2nd Floor, Winway World Offices, Plot No. B-7, Scheme No. PU-4 Commercial, Vijay Nagar, Indore, M.P. - 452010, India
Telephone	+91-8878666063
Email	operations@climera.co

1.6 Project Start Date

Project start date	19-June-2017
Justification	The project activity started power generation and emission reduction since 19-june-2017 which is commissioning date as well. As per VCS standard Version 4.7 The start date for a non-AFOLU project is the date on which the project began generating GHG emission reductions or removals. So, the commissioning date of the project activity is considered as the start date of the project activity.

1.7 Project Crediting Period

Crediting period	☐ Seven years, twice renewable ☐ Ten years, fixed ☒ Other (10 Years twice renewable as per Approved register documents) The project activity adopts renewable crediting period of 10 years period which can be renewed for maximum 2 times.
Start and end date of first or fixed crediting period	19-June-2017 to 18-June-2027

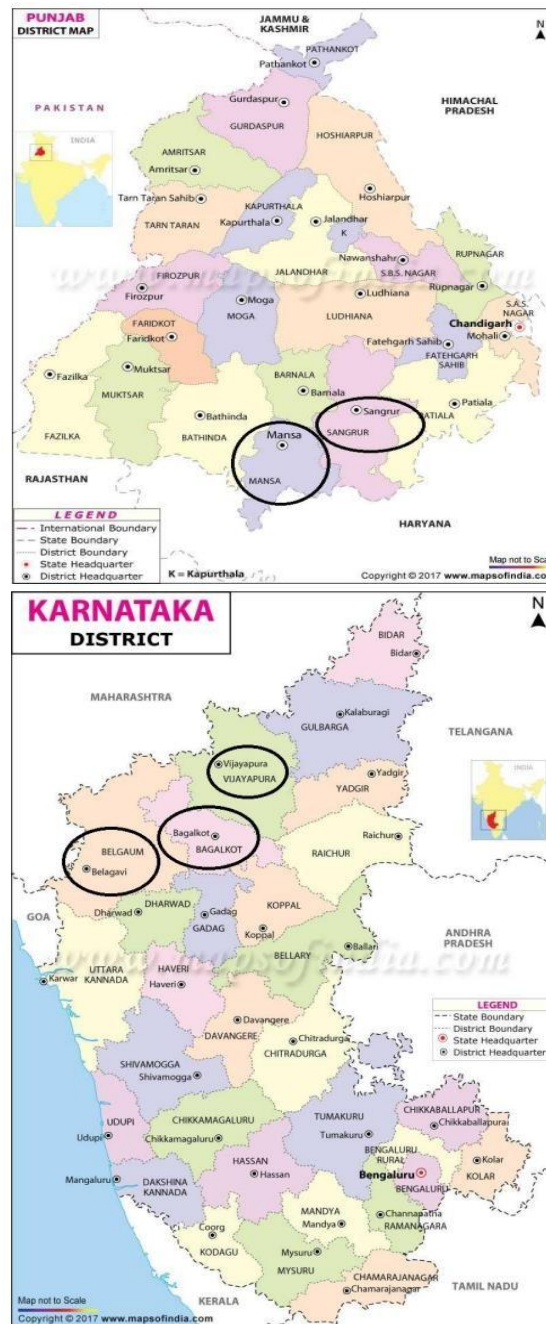
1.8 Project Location

The details of the project locations along with geo coordinates are mentioned in the table below:

Sl. No.	Name of SPV	Village	District	State	Latitude (N)	Longitude (E)
1	Mytrah Abhinav Power Pvt Ltd	Thimmajipet	Mahabubnagar	Telangana	16.6870	78.1745
		Arvapally	Nalgonda		17.3029	79.5131
		Domakonda	Nizamabad		18.2780	78.4687
		Alampur	Gadwal		15.9161	77.9602
		Gadwal	Gadwal		16.2647	77.7806
		Tandur	Rangareddy		17.3073	77.6128
		Nagarkurnool	Mahabubnagar		16.4944	78.4221
2	Mytrah Adarsh Power Pvt Ltd	Reddypet	Nizamabad	Telangana	18.4440	78.3964
		Chegunta	Medak		17.9915	78.4363
		Thunkibollaram	Siddipet		17.75957	78.5961
		Tungathurthy	Nalgonda		17.3556	79.5895
		Guntipally	Nalgonda		16.6383	78.7788
		Shanigaram	Siddipet		18.2259	79.0023
3	Mytrah Agriya Power Pvt Ltd	Kamareddy	Kamareddy	Telangana	18.2521	78.2972
4	Mytrah Akaash Power Pvt Ltd	K.M. Pally	Nalgonda	Telangana	16.7736	78.8785
5	Mytrah Aadhya Power Pvt Ltd	Bareta	Mansa	Punjab	29.8774	75.673
		Balran	Sangrur		29.8576	75.807
6	Mytrah Advaith	Hunagund	Bagalkot	Karnataka	16.0072	76.0394

	Power Pvt Ltd	Sindagi	Bijapur		16.9663	76.2408
7	Mytrah Akshaya Energy Pvt Ltd	Raibagh	Belagavi	Karnataka	16.4149	74.92

The project locations have been shown in the map below:





⁴ <http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>

1.10 Double Counting and Participation under Other GHG Programs

1.10.1 No Double Issuance

Is the project receiving or seeking credit for reductions and removals from a project activity under another GHG program?

☐ Yes ☒ No

1.10.2 Registration in Other GHG Programs

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

☐ Yes ☒ No

1.11 Double Claiming, Other Forms of Credit, and Scope 3 Emissions

1.11.1 No Double Claiming with Emissions Trading Programs or Binding Emission Limits

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

☐ Yes ☒ No

1.11.2 No Double Claiming with Other Forms of Environmental Credit

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

☐ Yes ☒ No

1.11.3 Supply Chain (Scope 3) Emissions

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

☐ Yes ☒ No

If yes:

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

☐ Yes ☒ No

If yes:

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

☐ Yes

☒ No

1.12 Sustainable Development Contributions

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 in three different states of India which is Punjab, Telangana & Karnataka.

- Social well-being: The project helped in generating employment opportunities during the construction and operation phases. The project activity leads to development in infrastructure in the region like development of roads, telecommunication 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. The project activity creates local employment generation which helps economic well-being of local people.
- Technological well-being: The successful operation of project activity is helping in promotion of wind power generation and is encouraging other entrepreneurs to participate in similar projects.
- Environmental well-being: The project activity 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.

The project activity contributes to the sustainable development of the region in addition.

SDG- 7 Through this project activity, it has contributed towards SDG-7 “Affordable and Clean Energy by setting up of 372 MW Solar Power Project.

SDG- 8 The project activity has resulted in providing both short-term and long-term employment to the local people, as well as providing adequate trainings for improving their efficiency.

SDG- 13 PP is committed to work for mitigation of climate change by generating electricity using clean energy sources. In this current monitoring period, project has achieved GHG emission reductions of 613,718 tCO₂e in this monitoring period.

Table 1: Sustainable Development Contributions

Row number	SDG target	SDG indicator	Net impact on SDG indicator	Current project contributions	Contributions over project lifetime
1)	7.2	7.2.1: Renewable energy share in the total final energy consumption	Implemented activities to increase	About 655,136 MWh, renewable electricity has supplied to Indian grid during the reported period that helps to increase the renewable energy share in the energy mix	Since Commissioning, about 4,479,033.53 (595,937.14+650,378.57+786,331+456,006+62,773+802,570+469,901.82+655,136) MWh renewable electricity has supplied to Indian grid that helps to increase the renewable energy share in the energy mix.
2)	8.6	8.6.1 Proportion of youth (aged 15-24) ³ not in education, employment or training	Implemented activities to increase	Total- 10 employees are employed during this reporting period. Total 20 trainings were provided during the current monitoring period	The lifetime contribution for the project is – Total employment – 10 Total Trainings - 20
3)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By supplying 655,136 MWh clean electricity to Indian grid, the project avoided release of 613,718 tCO ₂ e in to the atmosphere during the reported monitoring period	Prevented the release of 4,194,269.48 (557,667+609,256+736,377+427,182+58,805+751,827+439,437+613,718) Tonnes of carbon in the atmosphere since commission of the project activity.

³ https://www.jswenenergy.in/sites/default/files/assets/downloads/energy/Corporate%20Governance%20and%20Regulatory%20Information/Sustainability_Policies/JSWEL-DEI-Policy-v2.pdf

1.13 Commercially Sensitive Information

There is no any commercially sensitive information has been excluded from the public version of the monitoring report.

2 SAFEGUARDS AND STAKEHOLDER ENGAGEMENT

2.1 Stakeholder Engagement and Consultation

2.1.1 Stakeholder Identification

Stakeholder Identification	Not Applicable Since the local stakeholder consultation was conducted prior to the implementation of the project activity during validation. The consultation process involved relevant stakeholders such as the local village head, villagers, NGOs, PP representative and Local Government representatives.
Legal or customary tenure/access rights	Not Applicable, There are no legal or customary tenure/access rights to territories and resources, including collective and conflicting rights held by stakeholders, indigenous people (Ips), Local communities (LCs), and customary rights holders with regards to the project.
Stakeholder diversity and changes over time	Stakeholders identified for this project activity are diverse in nature – in terms of socio-economic status, age and gender wise and the diversity is unlikely to change over time⁴.
Expected changes in well-being	Expected changes 1. Economic well-being – The project activity is likely to provide employments to the locality thus economic well beings are expected. 2. Environmental well-being – As this project activity reduces the dependence on fossil fuels and conserves natural resources which are on the verge

Location of stakeholders

of depletion. Due to its zero emission the Project activity also helps in avoiding significant amount of GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the conventional thermal power generation facilities.

The location of the stakeholder is nearby villages of the project activity. The details of same is as such in table-

SPV	Village	District	State
Mytrah Abhinav Power Private Limited	Thimmajipet	Mahabubnagar	Telangana
	Arvapally	Nalgonda	
	Domakonda	Nizamabad	
	Alampur	Gadwal	
	Gadwal	Gadwal	
	Tandur	Rangareddy	
	Nagarkurnool	Mahabubnagar	
Mytrah Adarsh Power Private Limited	Reddypet	Nizamabad	Telangana
	Chegunta	Medak	
	Thunkibollaram	Siddipet	
	Tungathurthy	Nalgonda	
	Guntipally	Nalgonda	
	Shanigaram	Siddipet	
Mytrah Agriya Power Private Limited	Kamareddy	Kamareddy	Telangana
Mytrah Akaash Power Private Limited	KM Palli	Nalgonda	Telangana

Location of resources	Mytrah Aadhya Power Private Limited	Bareta & Balran	Bagalkot	Punjab
	Mytrah Advaith Power Private Limited	Hunagund	Bagalkot	Karnataka
		Sindagi	Bijapur	
	Mytrah Akshaya Energy Private Limited	Raibag	Belagavi	Karnataka
Not Applicable.				
There no the location of territories and resources which stakeholders own or to which they have customary access.				

2.1.2 Stakeholder Consultation and Ongoing Communication

Ongoing consultation	Stakeholders' consultation is a continuous process and hence a feedback register is kept at the project site office where any stakeholder can come and share his/her feedback. The feedback irrespective of the type is taken care by PP with utmost priority.				
Date(s) of stakeholder consultation	Initial LSC conducted at the time of registration the details of same is as below –				
	SPV	Date of meeting	Village	District	State
	Mytrah Abhin	19-January-2016	Thimmajipet	Mahabubnagar	Telangana

	av Power Privat e Limite d	20- January- 2016	Arvapally	Nalgonda	
		22- march- 2016	Domako nda	Nizamabad	
		18- January- 2016	Alampur	Gadwal	
		21- January- 2016	Gadwal	Gadwal	
		22- January- 2016	Tandur	Rangareddy	
		23- january- 2016	Nagarkur nool	Mahabubnag ar	
	Mytra h Adars h Power Privat e Limite d	20- Febuary- 2016	Reddype t	Nizamabad	Telanga na
		22- Febuary- 2016	Chegunt a	Medak	
		23- Febuary- 2016	Thunkibo llaram	Siddipet	
		24- Febuary- 2016	Tungathu rthy	Nalgonda	
		25- Febuary- 2016	Guntipall y	Nalgonda	

		25-February-2016	Shanigar am	Siddipet	
	Mytrah Agriya Power Private Limited	19-February-2016	Kamareddy	Kamareddy	Telangana
	Mytrah Akaash Power Private Limited	16-January-2016	KM Palli	Nalgonda	Telangana
	Mytrah Aadhyaa Power Private Limited	26-September-2015	Bareta & Balran	Bagalkot	Punjab
	Mytrah Advait Power Private Limited	15-April-2016	Hunagund	Bagalkot	Karnataka
		16-April-2016	Sindagi	Bijapur	

	Mytra h Aksha ya Energ y Privat e Limite d	22-April- 2017	Raibag	Belagavi	Karnata ka
Communication of monitored results	The meeting was outlined towards making aware local stakeholders including local community, local administration representatives, NGOs working for environmental cause etc., about the project activity that involves electricity generation using solar produced by solar plant with the primary objective of reducing emissions of GHGs in compared to pre-project or baseline scenario.				
Consultation records	Minutes of meeting from LSH, Invitation letter				
Stakeholder input	The feedbacks/comments received from stakeholders were quite positive and no negative comments were received. The questions asked by stakeholders were only on process and these are explained by PP representatives				

2.1.3 Free, Prior, and Informed Consent

Consent	Not Applicable, Since the stakeholders meeting was conducted before implementing the project activities. Participants were invited to take part in the stakeholders meeting at their will by invitation letter. During the stakeholders meeting they were welcome to raise the questions to reflect concerns and PP has answered all the queries. Hence there is no unresolved ongoing grievance or conflicts as all questions has answered.
Outcome of FPIC	As there were no negative comments received or protest against the project till date. Construction and Operation have been done without opposition by stakeholders.

2.1.4 Grievance Redress Procedure

Grievances received	Resolution and outcome
No grievances received	The project owner has operating complaint procedure. The PP has kept the register on plant site office for logging the ongoing communication or any grievance from the stakeholder which is easily accessible to the all stakeholders. This procedure of ongoing communication log & addressal is used for the project. No action required as no grievance received for the current monitoring period 01-April-2024 to 31-March-2025.

2.1.5 Public Comments

Summary of comments received	Actions taken
No comments received during the global stakeholder period	No comments received has no action required.

2.2 Risks to Stakeholders and the Environment

2.2.1 Management Experience

The management team of the project proponent has significant expertise and experience in implementing similar project activities⁵, including community engagement. There are no new entities involved in the project's design or implementation, ensuring continuity and stability within the project's management. The team has a proven track record of managing construction, operations, and community engagement, with a particular focus on environmental and social aspects. This includes overseeing registration, monitoring, measurement, reporting, and review processes.

The project team operates within an organizational structure approved by the board members and consists of professionals with diverse expertise in environmental management, data handling, and project management. This combined experience ensures the effective implementation and monitoring of the project, fully compliant with Verra requirements.

In case there are any areas where additional experience is needed, the project proponent has the necessary internal and external resources to address these gaps and ensure successful project delivery.

⁵ <https://www.jswenergy.in/energy/solar-assets>

2.2.2 Risk assessment

	Risk identified	Mitigation or preventative measure(s) taken
Natural and human-induced risks to stakeholders' wellbeing	No risk identified	There are no natural or human induced risks identified for stakeholders ⁶ . there are no exclusions, communication gaps, or barriers that might prevent stakeholders from engaging or participating” explains the mitigating or preventive measure for risk identification of Natural and human-induced risks to stakeholders' wellbeing.
Risks to stakeholder participation	No risk identified	There are no exclusions, lack of communications or barriers in the project activity that might prevent stakeholders from engaging or participating. No risks to stakeholder participation have been identified for this project activity. There are no exclusions, communication gaps, or barriers that might prevent stakeholders from engaging or participating. The project has ensured open access and transparent communication channels, thereby confirming that all relevant stakeholders have the opportunity to be involved without restriction ⁷ .
Working conditions	Risk identified	Regarding the working and safety procedures: ⁸ Accident at work: implementing permit to work, identify the hazard, risk and mitigation, tools required (working at height, lifting and hoist. Fire hazard & emergency condition:

⁶ <https://group.jsw.in/sustainability/transparency-customers>

⁷ https://www.jswenergy.in/jsw_energy_annual_report_2024_25/pdf/Stakeholder%20Engagement.pdf

⁸

https://www.jswenergy.in/sites/default/files/assets//downloads/energy/Corporate%20Governance%20and%20Regulatory%20Information/Sustainability_Policies/JSW_Health_and_Safety_Policy.pdf

	implementing, fire extinguisher inspection. Site safety: plant security and visitor procedure Unsafety action: Internal audit procedure⁹ Accident, incident: Reporting, first aid treatment¹⁰. During the monitoring period, one fatal incident occurred at the Balran site. The Project Proponent (PP) confirmed that the incident was handled in accordance with established Health, Safety, and Environment (HSE) procedures. The event was duly reported to internal management and relevant authorities as per applicable requirements. A detailed investigation was carried out to identify the root cause, and necessary corrective and preventive measures were implemented. ☐ Immediate changes: officers refreshed Permit-to-Work (PTW) and Toolbox Talk (TbT) training, implemented a buddy system, and ran internal safety gap audits to close shortfalls. ☐ Policy and SOP updates: site SOPs were reviewed (SMB & string cable inspection), the PTW checklist was amended, and a competency checklist for contract manpower was developed. Preventive measures: quarterly
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⁹ <https://group.jsw.in/node/1687>

¹⁰ https://group.jsw.in/jsw_energy_annual_report_2022_23/pdf/social-sustainability-progress-starts-with-people.pdf

Safety of women and girls	No risk identified	technical and safety audits, LOTO training, JSAs, and ongoing SOP enforcement were instituted to prevent recurrence. As the safety procedures ¹¹ implemented for each employee as described above, respect human rights, follow all the applicable laws and regulation.
Safety of minority and marginalized groups, including children	No risk identified	HR policies are in place and also the company follows the statutory rules which ensures Safety of minority and marginalized groups, including children. Child labor is prohibited in the project plant.
Pollutants (air, noise, discharges to water, generation of waste, and release of hazardous materials and chemical pesticides and fertilizers)	No risk identified	Solar PV modules Operate through photovoltaic conversion, producing electricity without releasing pollutants during operation. Hence there is no risk identified from the pollutants hence no mitigation measure is required.

¹¹ https://group.jsw.in/jsw_energy_annual_report_2022_23/pdf/social-sustainability-progress-starts-with-people.pdf

2.3 Respect for Human Rights and Equity

2.3.1 Labor and Work

Risks identified ⁵		Mitigation or preventative measure(s) taken
Discrimination	No risk identified	There is a HR policy, that no discrimination will occur related to work and labor during the monitoring period. https://www.jswnenergy.in/investors/energy/jswn-energy-sustainability-policies
Sexual harassment	No risk identified	There is a HR policy, that no sexual harassment will occur related to work and labor during the monitoring period
Gender equity in labor and work	No risk identified	PP provides equal opportunities in the context of gender equity and pay for labor and work
Forced labor	No risk identified	PP has implemented HR policy where forced labour is strictly prohibited as per labour law.
Child labor	No risk identified	PP does not provide employment to child labor and follows the Indian labour law on child labour prohibition.
Human trafficking	No risk identified	PP does not use victims of human trafficking and is not involved in any such kind of activities.

2.3.2 Human Rights

Risks identified	Mitigation or preventative measure(s) taken
No risk identified	The project activity has been implemented in accordance with applicable national laws and VCS requirements related to human rights¹². The project does not involve any form of forced labor, child labor, or discrimination, and ensures fair and safe working conditions for all personnel. No land acquisition, displacement, or infringement of local community rights has occurred due to the project activity. Stakeholder consultations were carried out prior to implementation, ensuring transparency and awareness among local communities. A grievance redressal mechanism is in place to address any concerns raised by stakeholders. No human rights violations or grievances have been reported during the monitoring period.

2.3.3 Indigenous Peoples and Cultural Heritage

Risks identified	Mitigation(s) or preventative measure taken
No risk identified	The project activity is implemented on the Projects owner's land and leased land; hence, no tangible cultural heritage has been hampered for the project activity. However, PP is committed to protect regional as well as national cultural heritage.

2.3.4 Property Rights

Risks identified	Mitigation or preventative measure(s) taken
No risk identified	project land is owned/lease by PP, The project activity is implemented on Project owners land/ leased land and PP is committed to protecting and preserving the property rights of IPs, LCs, and customary rights holders, and to protecting legal or customary tenure/access rights to territories, property, and resources.

¹² <https://group.jsw.in/groups/sustainability-framework-measuring-success-human-rights>

2.3.5 Benefit Sharing

Summary of the benefit sharing plan	Not applicable Since the benefits of the carbon credits lies with the project proponent. Also, the section 2.3.4 property rights of the monitoring report are not applicable.
Benefit sharing during the monitoring period	Not Applicable since PP is the sole owner of the revenue generated from the project activity.

2.4 Ecosystem Health

	Risk identified	Mitigation or preventative measure(s) taken during the monitoring period
Impacts on biodiversity and ecosystems	No risk identified	No impact on the biodiversity is likely to be caused
Soil degradation and soil erosion	No risk identified	No soil erosion and degradation are likely to be caused
Water consumption and stress	Risk identified	Water is consumed for the cleaning purpose of modules which is very low and no stress on local water bodies is to be ceased.

2.4.1 Rare, Threatened, and Endangered species

Species or habitat	The project is not located in or adjacent to habitat for rare, threatened or endangered species, hence no species is likely to be harmed.
Areas needed for habitat connectivity	There is no area needed for habitat connectivity as the project activity is not located in or adjacent to habitat for rare, threatened or endangered species.

	Risks identified	Mitigation or preventative measure(s) taken
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Habitats for rare, threatened, and endangered species	No risk identified	The project is not located in or adjacent to habitat for rare, threatened or endangered species, hence no species is likely to be harmed
Areas for habitat connectivity	No risk identified	There is no area needed for habitat connectivity as the project activity is not located in or adjacent to habitat for rare, threatened or endangered species.

2.4.2 Introduction of species

Since project activity is not involved with planting or species introduction & this section may be indicated as Not Applicable.

Species introduced	Classification	Justification for use	Adverse effects and mitigation
N/A	N/A	N/A	N/A

Existing invasive species	Mitigation measures to prevent the spread or continued existence of invasive species
No risk identified	There is no invasive species identified hence no mitigation measure is required.

	Risks identified	Mitigation or preventative measure(s) taken
Invasive species	No risk identified	No mitigation measures are required as no invasive species are identified.

2.4.3 Ecosystem conversion

	Risks identified	Mitigation or preventative measure(s) taken
Ecosystem conversion	No risk identified	There is no invasive species identified hence no mitigation measure is required.

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 is exported to the Indian electricity grid. The project is therefore displacing 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 details of the SPVs for the project and their location of installation are mentioned in the table below-

S No.	Name of SPVs	Capacity (MW)	COD	Site	Connection 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	Thnkibollaram			
		15 MW	08- November- 2017	Tungathuruthy			
		15 MW	25- September- 2017	Gundipally			
		15 MW	23-May- 2018	Shanigaram			
3	Mytrah Agriya Power Pvt Ltd	50 MW	25 MW on 22- November- 2018	Kamareddy	Indian Grid	Telangana	Sale to state Discom
			25 MW on 26- November- 2018				
4	Mytrah Akaash Power Pvt Ltd	50 MW	12.5 MW on 16- March- 2018	K.M Pally	Indian Grid	Telangana	Sale to state Discom
			17.5 MW on 12-April- 2018				
			20 MW on 22-				

			November-2018				
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			
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.

Solar PV Project Technology Details –

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Phono	320	27000
2	Solar PV module	Phono	325	25560
3	Total number of modules			52560
4	PV Inverter-1	ABB	1.667 MW	9
5	Inverter Transformer	ESSENAR	33000/3*400 V, 5 MVA	3
6	Inverter Transformer	Raychem	33kV / (38V*4)	4

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

S No.	Asset Name	Make	Rating	Quantity
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1	Solar PV module	BYD	320	3120
2	Solar PV module	Risen	320	41991
3	Solar PV module	Phono	320	1344
4	Solar PV module	Risen	325	7825
5	Total number of modules			54280
6	PV Inverter	ABB	1.7 MWp	9
7	Inverter Transformer	ESENNAR	33kV / (400*3) - 5 MVA	3
8	Current Transformer	ECS	300/1A	3

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Phono	320	5120
2	Solar PV module	Chint	320	47800
3	Total number of modules			52920
4	PV Inverter	ABB	1.7 MW	9
5	Inverter Transformer	ESSENNAR	33kV/(3*400V), 5 MVA	3
6	Current Transformer	Raychem	33kV / 1A	3

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Risen	310 Wp	26200
2	Solar PV module	Risen	315 Wp	20762
3	Solar PV module	Risen	320 Wp	36288
4	Total number of modules			83250
5	PV Inverter	Sungrow	2.5 MW	8

6	Inverter Transformer	Crompton Greeves	66/11KV, 25 MVA	1
7	Current Transformer	VOLTAMP	11000/315V - 2.5 MVA	8

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Risen	315 Wp	9080
2	Solar PV module	Risen	335 Wp	21240
3	Solar PV module	Risen	340 Wp	38720
4	Solar PV module	Waree	350 Wp	640
5	Solar PV module	Astroenergy	315 Wp	2612
6	Solar PV module	Astroenergy	320 Wp	5564
7	Total number of modules			77856
8	PV Inverter	Sungrow	0.5 MW	12
9	PV inveter	Sungrow	2.5 MW	6
10	Power Transformer	Crompton Greeves	66/11KV, 25 MVA	1
11	Inverter Transformer	VOLTAMP	11000/315V - 2.5 MVA	6
12	Inveter transformer	Universal Power	11 KV/315V - 1.5 MVA	4

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	BYD	310	29720
2	PV Inverter	TMEIC	1 MW	8
3	Inverter transformer	Raychem	33 kV/(380V*4) - 4 MVA-ONAN	2

4	Current Transformer	Vamet Industries	200/ 1A	9
5	Potential Transformer	Vamet Industries	33kV / 110V	9

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	BYD	320	28750
2	Central Inverter	Sungrow	2520 kW	3
3	Transformer	Shilchar	33 kV/315, 2.7 MVA	3
4	Current Transformer	Straton	200/ 1A	3
5	Potential Transformer	Straton	33kV / 110V	3

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Chint	320	11025
2	Solar PV module	Phono	320	37969
3	Solar PV module	BYD	320	12650
4	Total No. of modules			61644
5	PV Inverter (string Inverter)	HUAWEI		349
6	ACCB	Trisquare		90
7	LT Panel	Trisquare		8
8	Inverter Transformer	SUDHIR		3
9	Inverter transformer	SUDHIR		1

The technical specification for 11 MW solar project by Mytrah Abhinav Power Private Limited at Alampur site, Telangana

S No.	Asset Name	Make	Rating	Quantity
1	PV module	BYD	320	39375

2	Inverters	SUNGROW	2.5 MW	4
3	String monitoring box	Trinity touch	400 A	74
4	Inverter Transformer	Kirolskar Electric Co Ltd	33kV/380V – 2.75 MVA-ONAN	4
5	Current transformer	Straton	33KV	3
6	Potential transformer	Straton	33KV	3

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

S No.	Asset Name	Make	Rating	Quantity
1	PV module	BYD	320	55680
2	PV Inverter	TMEIC	1 MW	15
3	Inverter Transformer	Raychem	33 kV/ (380V*4)	4
4	Current transformer	Straton Electricals	300/1 A	3
5	Potential Transformer	Straton Electricals	33 kV/110 V	3

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Chint	320	17968
2	Solar PV module	Phono	320	35938
3	Total No. of modules			53906
4	PV Inverter	TMEIC	1 MW	15
5	Inverter Transformer	Voltamp	33 kV/ (380V*4) – 4 MVA-ONAN	3
6	Inverter Transformer	Silchar	33 kV/(380V*3) – 3 MVA-ONAN	1

7	Current transformer	Pragati Electricals	300/1A	6
8	Potential transformer	Electrical Control System	33kV/r3/110V/r3	6

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	BYD	320	26938
2	Solar PV module	Phono	320	31625
3	Total No. of modules			58563
4	PV Inverter	SUNGROW	2.5 MW	6
5	Inverter Transformer	SUDHIR transformer	33kV / 360V*1) – 2.5MVA-)ONAN	6
6	Current Transformer	Vamet Industries	200/1A	6
7	Potential transformer	Vamet Industries	33kV/110V	6

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	BYD	320	58891
2	Total No. of modules			58891
3	String Inverter	Huawei	43 KW	349
4	LT Panel	Sterling Generators	500V, 2MW	8
5	Inverter Transformer	Raychem	500V/33KV-4MVA	2
6	Inverter Transformer	Raychem	500V/33KV-3MVA	1

7	Inverter Transformer	Sudhir	500V/33KV-4MVA	1
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The technical specification for 15 MW solar project by Mytrah Adarsh Power Private Limited at Chegunta site, Telangana

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	BYD	320	53085
2	Solar PV module	Phono	320	8313
3	Total No. of modules			61398
4	LT Panel	Sterling Generators	500V 4000 Amps	6
5	Inverter Transformer	Sudhir Power Ltd	33kV/500 V 5MVA	3
6	HT Panels	Techno craft	36KV, 1250 Amps	1
7	Current Transformer	Staton	300/1A	3
8	Potential Transformer	Straton	33KV/110V	3

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Phono	320	42282
2	Solar PV module	Sera	320	16000
3	Total No. of modules			58282
4	LT Panel	STRILING GENERATOR	1500 KW	2
5	LT Panel	STRILING GENERATOR	2000 KW	4
6	Inverter Transformer	Raychem	33kV/(500V*2)-4 MVA-ONAN	2
7	Inverter Transformer	Sudhir	33kV/(500V*2)-4 MVA-ONAN	1

8	Inverter Transformer	Sudhir	33kV/(500V*2)- 3 MVA-ONAN	1
9	Current Transformer	Pragathi Electricals	300/1 A	3

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Chint	320	28697
2	Solar PV module	Phono	320	29588
3	Total No. of modules			58285
4	Inverter Transformer	Raychem	33kV/(380V* 4)- 4 MVA-ONAN	4
5	LT Panel	Tri square	500 V 3200 A	8
6	Current Transformer	Straton Electrical	300/1A	3
7	Potential Transformer	Vamet Industries	33kV/110V	3

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Phono	320	53750
2	String monitoring box	Trinity touch	1000V DC,400A	107
3	PV Inverter	TMEIC	1 MW	15
4	Inverter Transformer	SHILCHAR	33kV/(380V*4)-4 MVA	4
5	Current Transformer	Straton Electricals	300/1 A	3
6	Potential Transformer	Straton Electricals	33kV/110V	3

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

S No.	Asset Name	Make	Rating	Quantity
1	PV module	Phono	320	25156
2	PV module	BYD	320	28751
3	Total No. of modules			53907
4	Inverters	TMEIC	1 MW	15
5	String monitoring box	Solaris	1000V DC,400A	120
6	Inverter Transformer	Raychem	33kV/(380V*4)-3 MVA	1
7	Inverter Transformer	HPS	33kV/(380V*4)-2 MVA	2
8	Inverter Transformer	Shilchar	33kV/(380V*4)-4 MVA	1
9	Inverter Transformer	Raychem	33kV/(380V*4)-4 MVA	1
10	HT Panel	Technocrafts	33 KV	1
11	Current transformer	Straton	33 KV	3
12	Potential transformer	Straton	33 KV	3

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

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Risen	325	55305
2	Solar PV module	Adani	325	7410
3	Solar PV module	Risen	320	34340
4	Solar PV module	Adani	320	6355
5	Solar PV module	Chint	320	48500
6	Solar PV module	Sumec	320	49880
7	Solar PV module	Sumec	325	15750
8	Total No. of modules			217540

9	PV Inverter	SUNGROW	2.5 MW	20
10	Inverter Transformer	SUDHIR	33kV/360V-2.5 MVA	11
11	Inverter Transformer	Raychem	33kV/360V-2.5 MVA	9
12	Power Transformer	Transformers & Rectifiers	132/33kV, 31.5/25MVA	2

The technical specification for 50 MW solar project by Mytrah Akaash Power Private Limited at K.M.Pally site, Telangana

S No.	Asset Name	Make	Rating	Quantity
1	Solar PV module	Phono	320	94820
2	Solar PV module	Risen	320	29750
3	Solar PV module	Waree	320	52450
4	Solar PV module	Adani	325	29160
8	Total No. of modules			95,493
9	PV Inverter	Sungrow	2,500 KW	20
10	Inverter Transformer	Raychem	33kV/380V-2.5 MVA	11
11	Inverter Transformer	SUDHIR	33kV/360V-2.5 MVA	9
12	Power Transformer	ANDREW YULE	132/33kV, 31.5/25MVA	2

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. Moreover, no significant events have occurred during this monitoring period that could potentially impact the reduction and monitoring of greenhouse gas emissions.

The plant is running smoothly since commissioning with scheduled maintenance. No events or situations happened that can alter the applicability of the applied methodology.

3.2 Deviations

3.2.1 Methodology Deviations

There is no methodological deviation applicable for the current monitoring period.

3.2.2 Project Description Deviations

There is one deviation requested in the current monitoring period however there are some approved deviations in the previous verifications. The details of approved deviations is as below:

Deviation 1:

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.

Deviation 2:

During Previous Monitoring period, there was change in other entity as per registered VCS PD. The details of other entity involved in the project is mentioned below-

Organization Name	Infinite solutions
Role in project	Carbon Consultant
Contact Person	Jimmy Sah
Title	Project manager
Address	214-215 Milinda Manor, Opp. Next Treasure Island, 2 RNT Marg, Indore- 452001
Telephone	+91-731-4050174
Email	jimmy@infinitesolutions.org

This deviation was requested in monitoring period of 01-June-2021 to 28-February-2022 and the deviation has been approved. The deviation does not have any impact on the project applicability, baseline scenario, additionally etc. and the deviation has been approved by the board.

Deviation 3:

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: -

$$EG_{PJ,grid,y} \text{ or } EG_{facility,y} = \text{Energy export} - 115\% \text{ of Import Energy}$$

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, and additionality etc. This deviation was approved by the board in the verification period 1-March-2019 to 31-March-2020.

Deviation 4:

During the verification period 01-April-2022 to 30-June-2023, the derivation is applied for the geo coordinate correction. The VCS registered Joint PD & MR mentioned the wrong geo coordinates. Updated Geo Coordinates mentioned below.

SI No.	Name of SPVs	Village (site)	District	State	Latitude (N)	Longitude (E)
1	Mytrah Abhinav Power Pvt Ltd	Domakonda	Nizamabad	Telangana	18.2780	78.4687
		Arvapally	Nalgonda		17.3029	79.5131
		Tandur	Rangareddy		17.3073	77.6128
		Nagarkurnool	Mahabubnagar		16.4944	78.4221
2	Mytrah Adarsh Power Pvt Ltd	Reddypet	Nizamabad		18.4440	78.3964
		Chegunta	Medak		17.9915	78.4363
		Thunkibollaram	Siddipet		17.7595	78.5961
		Tungathurthy	Nalgonda		17.3556	79.8595
		Guntipally	Nalgonda		16.6383	78.7788
		Shanigaram	Siddipet		18.2259	79.0023
3	Mytrah Agriya Power Pvt Ltd	Kamareddy	Kamareddy		18.2521	78.2972
4	Mytrah Aadhya	Balrn	Sangrur	Punjab	29.8576	75.807

	Power Pvt Ltd					
5	Mytrah Advaith Power Pvt Ltd	Hunagund	Bagalkot	Karnataka	16.0072	76.0394
		Sindagi	Bijapur		16.9663	76.2408
6	Mytrah Akshaya Energy Pvt Ltd	Raibagh	Belagavi		16.4149	74.92

This deviation is approved in the monitoring period of 01-April-2022 to 30-June-2023. The deviation does not have any impact on the project applicability, baseline scenario, additionality etc.

Deviation 5:

During previous monitoring period, meters were replaced at certain site locations, which is beyond the control of the Project Participants. Meter calibration and replacement are carried out by the respective State Electricity Boards. The details of meter replacements have been documented in *APPENDIX 3: Meter calibration details*.

This deviation does not negatively impact the conservativeness of the quantification of GHG emission reductions or removals. It solely provides information on State Electricity Board regulations, as the Project Participants do not have direct control over these activities, and it does not relate to any other part of the methodology. Furthermore, this deviation does not alter the additionality, project design, monitoring approach, or emission reduction calculations. The nature of this deviation is permanent.

Deviation 6:

During current monitoring period 01-April-2024 to 31-March-2025, there is change in other entity as per registered VCS PD. The details of other entity involved in the project is mentioned below-

Organization name	Climera Carbon Private limited
Role in the project	Carbon consultant
Contact person	Rutuparn Nimonkar
Title	Project Manager
Address	Awfis, 2nd Floor, Winway World Offices, Plot No. B-7, Scheme No. PU-4 Commercial, Vijay Nagar, Indore, M.P. - 452010, India
Telephone	+91-8878666063
Email	operations@climera.co

This deviation is requested in current monitoring period and does not have any impact on the project applicability, baseline scenario, additionality etc.

3.3 Grouped Projects

The project activity is not a grouped project activity.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes

☒ No

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 14.0, December 2018 ⁶
Value applied	0.9610
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per TOOL 07 “Tool to calculate the emission factor for an electricity system, version 07” as 3-year generation weighted average using data for the years 2015-2016, 2016-2017 & 2017-2018. 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, December 2018 ⁷
Value applied	0.8644
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per TOOL 07 “Tool to calculate the emission factor for an electricity system, version 07” as per the latest data available for the most recent year 2018. 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 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
Description	Combined Margin CO ₂ emission factor in year y

⁶ https://cea.nic.in/wp-content/uploads/baseline/2020/07/user_guide_ver14.pdf

⁷ http://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver14.pdf

Source of data	Calculated from CEA database, Version 14, December 2018 ⁸
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 baseline emissions
Comments	This parameter is fixed ex-ante for the entire crediting period

4.2 Data and Parameters Monitored

For Karnataka Site

Data / Parameter	EGPJ,y
Data unit	MWh
Description	Quantity of net electricity generation supplied by the project (Solar) plant/unit to the grid in year y in MWh
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 monitoring and monthly recording
Value monitored	80,084
Monitoring equipment	Monitoring: Tri Vector meter is used Data type: measured

⁸ http://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver14.pdf

	Type of meter: Static type meter (main & Check) both are bidirection meters Class of meter: 0.2S
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 ⁹ . 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 on substation meters.
Purpose of the data	Calculation of baseline emissions
Calculation method	Net electricity supplied to the grid by the project plant in a given month = Electricity Export – 115%* Electricity Import
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,y}
Data unit	MWh
Description	Quantity of net electricity generation supplied by the project (solar) plant/unit to the grid during the monitoring period
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 monitoring and monthly recording
Value monitored	75,826

⁹ As per approved VCS PD

	Monitoring: Tri vector meter is used Data type: Measured Type of meter: Static type meter (Main & Check). Both are Bidirectional meters. Class of meter:0.2s. The meter details are given in APPENDIX 3: Meter calibration details
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 ¹⁰ . 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	Net electricity supplied to the grid by the project plant in a given month = Electricity 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	EG _{PJ,y}
Data unit	MWh
Description	Quantity of net electricity generation supplied by the project (Solar) plant/unit to the grid during the monitoring period
Source of data	Monthly Joint Meter reading reports
Description of measurement methods	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.

¹⁰ http://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf

and procedures to be applied	
Frequency of monitoring/recording	Continuous monitoring and monthly recording 441,398
Value monitored	499,226
Monitoring equipment	Monitoring: Tri vector meter is used Data type: Measured Type of meter: Static type meter (Main & Check). Both are Bidirectional meters. Class of meter:0.2s. The meter details are given in APPENDIX 3: Meter calibration details
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. 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	Net electricity supplied to the grid by the project plant in a given month = Electricity Export (kWh)– Electricity 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.

4.3 Monitoring Plan

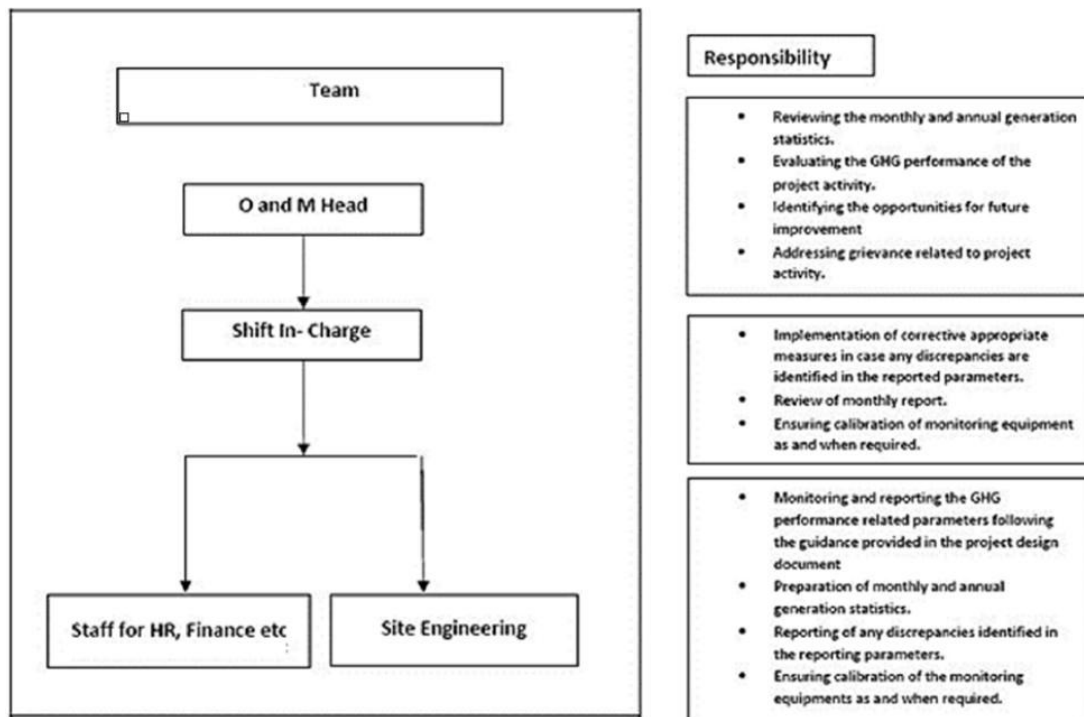
The monitoring plan is developed in accordance with the modalities and procedures for VCS project activities and is proposed for grid-connected solar power project being implemented. The monitoring plan, which is implemented by the project proponent describes about the monitoring organization, parameters 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 equipment's for this project activity.

Responsibilities of O&M Representative: Co-ordination between Site in charge of the O&M operator as well as the project participant and further report to PP head office.

Responsibilities of Site In-charge (O&M Operator): Responsibility for maintaining the data records, ensures completeness of data, and reliability of data (calibration of equipment) as well as data recording for all the parameters.

The team comprises of the following members:



Data Measurement

The export and import energy are measured continuously using the above-mentioned Main and Check meters located at the substations. Readings of meters are taken on a monthly basis by an authorized officer of SEB in the presence of the PP or the PP's representative. Invoices are raised based on the Meter Reading Statement provided to the PP. These invoices can be used for cross-checking the meter readings taken for the respective project activity.

The project entails setting up a 372 MW Solar Photovoltaic (PV) power generation system that spans across the states of Telangana, Karnataka, and Punjab in India. Its main goal is to harness renewable solar energy to generate electricity. The produced power is effectively coordinated through a sequence of components and procedures, including modules, string inverters, transformers, transmission lines, and pooling substations.

Solar Photovoltaic Modules with a total capacity of 372 MW are strategically located in Telangana, Karnataka, and Punjab, India, utilizing solar panel, the initial stage of power generation, transformers at the inverter level to step up power to 33 kV, and transmission lines for efficient power transfer to the pooling substation; the pooling substation, serving as a central distribution point, houses transformers that further step up the voltage, optimizing long-distance transmission and preparing the power for integration into the Indian grid.

The power evacuation of the project activity is carried out by the State utility through Grid Substation. The Grid Substation acts as a pivotal point where the power generated by the project is fed into the grid. This substation provides the necessary infrastructure, equipment, and monitoring capabilities to handle the high-voltage power coming from the project, ensuring efficient transmission.

For the solar panel cleaning the wet cleaning mechanism for solar panels aims to achieve peak performance by systematically removing dust, dirt, and contaminants, utilizing materials such as distilled water, a soft bristle brush, mild detergent, a squeegee or soft cloth, and personal protective equipment like gloves and eye protection.

Procedure

Before initiating the cleaning process, ensure safety by wearing gloves and eye protection, followed by a systematic procedure involving initial inspection, gentle dust removal, application of a mild detergent solution for stubborn stains, wet cleaning with a soft sponge or cloth, thorough rinsing with distilled water, meticulous drying using a squeegee or soft cloth during optimal times, concluding with a final visual inspection, checking for cleanliness, absence of streaks or spots, and noting any potential damage obscured by dirt,

Frequency:

Cleaning on a quarterly or semi-annual basis is adequate in moderate climates, with increased frequency recommended as necessary in areas characterized by high dust or pollution levels.

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 (SCADA system) 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 by another meter such as Stand by meter, in the event of a delay in meter calibration, an error factor will be applied for the calculation of ER.

Personnel training

To guarantee the effective operation of the project and the accurate monitoring of emission reductions, comprehensive staff training is conducted within the plant. This includes instruction on the utilization of monitoring tools and software for evaluating system performance, comprehension of control systems for fine-tuning and optimizing solar power generation, and safety training covering working at heights and electrical safety measures. The training program encompasses the staff, with specific focus on plant helpers, who receives training in equipment operation, data recording, and the implementation of operation and maintenance procedures, all in accordance with the monitoring plan.

QA/QC procedure

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.

Net electricity exported to grid = $(A/B) \times C$

Where,

A = Number of days matching in billing period and monitoring period

B = Total number of days the billing period/month

C = Net electricity supplied to the grid for the given billing period/month

Calculation of net electricity exported to the grid is done by both the approaches and conservative value among the two is used for calculation of emission reductions during that period.

No apportioning is done in the current monitoring period 01-April-2024 to 31-March-2025.

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

The baseline emission calculation is done as such-

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

Where:

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

$$EG_{PJ,y} = 655,136 \text{ MWh}$$

$$BE_y = 655,136 * 0.9368$$

$$BE_y = 613,718 \text{ tCO}_2\text{e (rounded down value)}$$

5.2 Project Emissions

$PE_y = 0$, As per para 36 of ACM0002 methodology “For all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected”. Hence, $PE_y = 0$.

5.3 Leakage Emissions

As per para 56 of ACM0002 methodology, no leakage emissions need to be considered for the project activity. Hence, leakage is negligible.

5.4 GHG Emission Reductions and Carbon Dioxide Removals

Emission reduction is calculated as such-

$$ER_y = BE_y - PE_y$$

$$BE_y = 613,718 - 0$$

$$BE_y = 613,718 \text{ tCO}_2\text{e}$$

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCU's (tCO ₂ e)	Removal VCU's (tCO ₂ e)	Total VCUs (tCO ₂ e)
01-April-2024 to 31- Dec-2024	441,720	0	0	441,720	0	441,720
01-Jan-2025 to 31- Mar-2025	171,998	0	0	171,998	0	171,998
Total	613,718	0	0	613,718	0	613,718

<i>State the non-permanence risk rating (%)</i>	NA as the project does not involve non-permanence risk assessment
<i>Has the non-permanence risk report been attached as either an appendix or a separate document?</i>	☐ Yes ☐ No
<i>For ARR and IFM projects with harvesting, state, in tCO₂e, the Long-term Average (LTA).</i>	NA
<i>Has the LTA been updated based on monitored data, if applicable?</i>	☐ Yes ☐ No If no, provide justification.
<i>State, in tCO₂e, the expected total GHG benefit to date.</i>	NA
<i>If a loss occurred (including a loss event or reversal), state the amount of tCO₂e lost:</i>	NA

ii) Complete the table below for the project crediting period.

Below table is not applicable as this is a non-AFOLU project

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Buffer pool allocation (tCO ₂ e)	Reductions VCU's (tCO ₂ e)	Removal s VCU's (tCO ₂ e)	Total VCU issuance (tCO ₂ e)
DD- MMM- YYYY to 31-Dec- YYYY	NA	NA	NA	NA	NA	NA	NA
Total	NA	NA	NA	NA	NA	NA	NA

Vintage period	Ex-ante estimate d reduction s/ removals	Achieved reduction s/ removals	Percent difference	Explanation for the difference
01-April-2024 to 31-Dec-2024	481,077	441,720	-8%	For solar projects: The actual VER is lower than the estimated VCUs. The amount of electricity generated depends on the availability of sunlight, with variations in solar radiation potentially affecting the plant's output. Weather patterns, including cloud cover and seasonal changes, may influence solar irradiance and subsequently impact the electricity production of the solar facility. These variations are primarily due to fluctuations in solar radiation, which are largely dependent on weather conditions and other parameters, including grid availability—factors that are beyond the control of the project proponent.
01-Jan-2025 to 31-Mar-2025	157,443	171,998	9%	For solar projects: The actual VER is higher than the estimated VCUs. The amount of electricity generated depends on the availability of sunlight, with variations in solar radiation potentially affecting the plant's output. Weather patterns, including cloud cover and seasonal changes, may influence solar irradiance and subsequently impact the electricity production of the solar facility. These variations are primarily due to fluctuations in solar radiation, which are largely dependent on weather conditions and other parameters, including grid availability—factors that are beyond the control of the project proponent.
Total 01-April-2024 to 31-March-2025	638,520	613,718	-3.88%	For solar projects: The actual VER is lower than the estimated VCUs. The amount of electricity generated depends on the availability of sunlight, with variations in solar radiation potentially affecting the plant's output. Weather patterns, including cloud cover and seasonal changes, may influence solar irradiance and subsequently impact the electricity production of the solar facility. These variations are primarily due to fluctuations in solar radiation, which are largely dependent on weather conditions and other parameters, including grid availability—factors that are beyond the control of the project proponent.

APPENDIX 1: COMMERCIALY SENSITIVE INFORMATION

There no any commercially sensitive information that has been excluded from the public version of the monitoring report.

Section	Information	Justification
N/A	N/A	N/A

APPENDIX 2: TRAINING RECORDS

THE TRAININGS PROVIDED BY PROJECT PROPONENT AT THE PROJECT LOCATION IS AS SUCH-

Ser No.	Date	Topic	Location / Site
1	17-04-2024	Site Induction & Job Specific Training	Gadwal – Block No. 64
2	18-04-2024	Summer Safety & Precautionary Measures	Near HT Panel – Mytrah Abhinav
3	20-04-2024	Emergency Response Plan & PTW	Gadwal – MCR
4	22-04-2024	JSW Critical Safety Rules	Gadwal – MCR
5	25-04-2024	Solar Plant Equipment Details Discussion	Near MCR – Mytrah Abhinav
6	30-04-2024	Fire Emergency (Internal/External)	Assembly Point – Mytrah Abhinav
7	02-05-2024	Heat Exhaust (Mock Drill)	Gadwal – MCR
8	02-05-2024	Site Induction, Head Stock, Site Safety	Gadwal – Main Gate
9	03-05-2024	Pre-Monsoon Checkpoints & Necessity	Gadwal – MCR
10	11-05-2024	Adherence of SOPs for Specific Activities	Gadwal – MCR
11	21-05-2024	IDT Working & Maintenance Procedures	Near ICR-2 – Mytrah Abhinav
12	22-05-2024	Grievance Redressal Mechanism	Assembly Point – Mytrah Abhinav
13	30-05-2024	Heat Stress (Mock Drill)	Gadwal – MCR
14	05-06-2024	Basic Safety Induction, 10 Critical Rules	Gadwal – MCR
15	05-06-2024	World Environment Day – Land Restoration	Gadwal – MCR
16	06-06-2024	Basic Site Induction, Job Safety, Critical Rules	Gadwal – MCR
17	10-06-2024	Inverter Deviation Calculation & Corrective Action	Near ICR-2 – Mytrah Abhinav
18	19-06-2024	Environmental Management System	Gadwal – MCR
19	19-06-2024	Environmental Management System & Transmission	Assembly Point – Mytrah Abhinav
20	30-06-2024	Snake/Scorpion Bite	Near MCR – Mytrah Abhinav

21	10-07-2024	Pre-Monsoon Checkpoint Procedure	Gadwal – MCR
22	12-07-2024	HSE Induction Training	Thimmajipet Site – Mytrah Abhinav
23	13-07-2024	HSE Induction Training	Thimmajipet Site – Mytrah Abhinav
24	13-07-2024	Electric Shock	Thimmajipet Site – Mytrah Abhinav
25	15-07-2024	Monsoon Safety	Gadwal – MCR
26	19-07-2024	Monsoon Safety	Arvapally – MCR
27	29-07-2024	Basic First Aid	Arvapally – MCR
28	31-07-2024	Spillage of Oil	Assembly Point – Mytrah Abhinav
29	30-08-2024	Medical Complication (Cardiac Arrest)	Near MCR – Mytrah Abhinav
30	07-08-2024	Health & Hygiene at Workplace	Gadwal – MCR
31	14-08-2024	Thermography of String IV Testing	Near ICR-2 – Mytrah Abhinav
32	20-08-2024	HT Panel Troubleshooting	Near ICR-2 – Mytrah Abhinav
33	27-08-2024	Use of PPEs	Gadwal – MCR
34	30-09-2024	Electric Shock (Mock Drill)	Near ICR-2 – Mytrah Abhinav
35	25-10-2024	Insect Bite	Gadwal – Main Gate
36	25-10-2024	Basic Site Induction, PPE Usage	Gadwal – Main Gate
37	28-10-2024	Inverter Maintenance & Certification Method	Near MCR – Mytrah Abhinav
38	28-10-2024	Hazardous Waste Management Awareness	Gadwal – MCR
39	12-11-2024	Behaviour Based Safety	Gadwal – MCR
40	15-11-2024	HIRA, EIA & Job Safety Analysis	Gadwal – MCR
41	07-11-2024	Standard Operating Procedure	Gadwal – MCR
42	24-12-2024	Snake/Scorpion Bite & PPE Use	Gadwal – MCR
43	24-12-2024	Seasonal Diseases	Gadwal – MCR
44	06-12-2024	Committee Meeting Awareness	Gadwal – MCR

45	06-12-2024	Fire Fighting Awareness	Gadwal – MCR
46	06-12-2024	Voltage Detector Usage Awareness	Gadwal – MCR
47	14-01-2025	Road Safety Week	Gadwal – Assembly Point
48	14-01-2025	Defensive Driving & Road Signages	Gadwal – MCR
49	18-01-2025	Emergency Management System	Gadwal – MCR
50	18-01-2025	Electrical Safety	Gadwal – MCR
51	18-01-2025	Defensive Driving	Gadwal – MCR
52	18-01-2025	Vehicle Accident (Mock Drill)	Gadwal – MCR
53	22-01-2025	ACDB, UPS, Battery Maintenance	Gadwal – HT Panel
54	22-01-2025	CB Overview & Fault Identification	Gadwal – HT Panel
55	06-02-2025	Arc Flash Suit Importance	Gadwal – MCR
56	06-02-2025	Fire Emergency (Mock Drill)	Gadwal – HT Panel
57	06-02-2025	Snake Bite (Mock Drill)	Gadwal – ICR-3 Road Area
58	06-02-2025	Permit to Work Procedures	Gadwal – MCR
59	06-02-2025	Do's & Don'ts Training	Gadwal – MCR
60	20-03-2025	Earth Pit Maintenance	Gadwal – MER

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10	11-05-2024	Adherence of SOPs for Specific Activities	Gadwal – MCR

11	21-05-2024	IDT Working & Maintenance Procedures	Near ICR-2 – Mytrah Abhinav
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26	19-07-2024	Monsoon Safety	Arvapally – MCR
27	29-07-2024	Basic First Aid	Arvapally – MCR
28	31-07-2024	Spillage of Oil	Assembly Point – Mytrah Abhinav
29	30-08-2024	Medical Complication (Cardiac Arrest)	Near MCR – Mytrah Abhinav
30	07-08-2024	Health & Hygiene at Workplace	Gadwal – MCR
31	14-08-2024	Thermography of String IV Testing	Near ICR-2 – Mytrah Abhinav
32	20-08-2024	HT Panel Troubleshooting	Near ICR-2 – Mytrah Abhinav
33	27-08-2024	Use of PPEs	Gadwal – MCR
34	30-09-2024	Electric Shock (Mock Drill)	Near ICR-2 – Mytrah Abhinav
35	25-10-2024	Insect Bite	Gadwal – Main Gate
36	25-10-2024	Basic Site Induction, PPE Usage	Gadwal – Main Gate
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40	15-11-2024	HIRA, EIA & Job Safety Analysis	Gadwal – MCR
41	07-11-2024	Standard Operating Procedure	Gadwal – MCR
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43	24-12-2024	Seasonal Diseases	Gadwal – MCR
44	06-12-2024	Committee Meeting Awareness	Gadwal – MCR
45	06-12-2024	Fire Fighting Awareness	Gadwal – MCR
46	06-12-2024	Voltage Detector Usage Awareness	Gadwal – MCR
47	14-01-2025	Road Safety Week	Gadwal – Assembly Point
48	14-01-2025	Defensive Driving & Road Signages	Gadwal – MCR

49	18-01-2025	Emergency Management System	Gadwal – MCR
50	18-01-2025	Electrical Safety	Gadwal – MCR
51	18-01-2025	Defensive Driving	Gadwal – MCR
52	18-01-2025	Vehicle Accident (Mock Drill)	Gadwal – MCR
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57	06-02-2025	Snake Bite (Mock Drill)	Gadwal – ICR-3 Road Area
58	06-02-2025	Permit to Work Procedures	Gadwal – MCR
59	06-02-2025	Do's & Don'ts Training	Gadwal – MCR
60	20-03-2025	Earth Pit Maintenance	Gadwal – MER

APPENDIX 3: METER CALIBRATION DETAILS

The details of the calibration status of the energy meters used for monitoring of the electricity generation:

State: Karnataka

- Name of SPv: Mytrah Advait Power Private Limited
- Site name: Hunagund (Substation 33/110 KV)

	Main meter	Backup meter
Type of meter	Energy meter	Energy meter
Meter Make	L&T	L&T
Meter type	3ph-4Wire	3ph-4Wire
Meter serial Number	23002953	23002957
Accuracy class of meter	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years
Date of calibration	27-March-2023	27-March-2023
Due date of calibration	26-March-2028	26-March-2028

State: Karnataka

- Name of SPv: Mytrah Advait Power Private Limited
- Site name: Sindagi (Bijapur) (Substation 33/110 KV)

	Main meter	Backup meter
Type of meter	Energy meter	Energy meter
Meter Make	L&T	L&T
Meter type	3ph-4Wire	3ph-4Wire
Meter serial Number	23002832	23002909
Accuracy class of meter	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years
Date of calibration	10-July-2024	10-July-2024
Due date of calibration	09-July-2029	09-July-2029

State: Karnataka

- Name of SPv: Mytrah Akshay Energy Private limited
- Site Name: Raibagh

	Main meter	Backup meter
Type of meter	Energy meter	Energy meter
Meter Make (Old Meter)	L&T ER 300P	L&T ER 300P

Meter Model (Old Meter)	Bi-directional RS 232	Bi-direction RS 232
Old Meter serial Number	17115537	17115532
Meter Change Date	05-May-2023	05-May-2023
New meter serial number	23002948	23002972
Meter Make (New Meter)	L&T ER 300P	L&T ER 300P
Meter Model (New Meter)	Bi-directional RS 485	Bi-direction RS 485
Accuracy class of meter	0.2s	0.2s
Calibration frequency	Once in 5 years	Once in 5 years
New Meter Date of calibration	05-May-2023	05-May-2023
New Meter Due date of calibration	04-May-2028	04-May-2028

State: Punjab

- Name of SPv: Mytrah Aadhya Power Private Limited
- Site Name: Bareta (Substation 66/11 KV)

	Main meter
Type of meter	Energy meter
Meter Make	Secure
Meter serial Number	PBB48781
Accuracy class of meter	0.2S
Calibration frequency	Once in 5 years
Date of calibration	12-April-2023
Due date of calibration	11-April-2028

State: Punjab

- Name of SPv: Mytrah Aadhya Power Private Limited
- Site Name: Balran (Substation 66/11 KV)

	Main meter	Backup meter
Type of meter	Energy meter	Energy meter
Meter Make	Secure	Secure
Meter serial Number	PBB48803	PBB48802
Accuracy class of meter	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years
Date of calibration	01-June-2021	01-June-2021
Due date of calibration	31-May-2026	31-May-2026

State: Telangana

- Name of SPv: Mytrah Abhinav Power Pvt Ltd
- Site Name: Thimajipet (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	R3E	R3E	R3E

Meter serial Number	APX01099	APX01100	APX01101
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	17-September-2020	17-September-2020	17-September-2020
Due date of calibration	16-September-2025	16-September-2025	16-September-2025

State: Telangana

- Name of SPv: Mytrah Abhinav Power Pvt Ltd
- Site name: Arvapally (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	Secure	EDMI	
Meter serial Number	HT01160859	HT01160860	HT01160861
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	11-March-2022	11-March-2022	11-March-2022
Due date of calibration	10-March-2027	10-March-2027	10-March-2027
Date of calibration	19-October-2024	19-October-2024	19-October-2024
Due date of calibration	18-October-2029	18-October-2029	18-October-2029

State: Telangana

- Name of SPv: Mytrah Abhinav Power Pvt Ltd
- Site Name: Domakonda (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter		Energy meter
Meter Make	Secure meter limited	Secure meter limited	Secure meter limited
Meter serial Number	TS04282	TS04283	TS04284
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years

Date of calibration	19-February-2018	17-August-2020	19-February-2018	17-August-2020	19-February-2018	17-August-2020
Due date of calibration	18-February-2023	16-August-2025	18-February-2023	16-August-2025	18-February-2023	16-August-2025

State: Telangana

- Name of SPv: Mytrah Abhinav Power Pvt Ltd
- Site Name: Alampur (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	EDMI	EDMI	EDMI
Meter serial Number	HT01161107	HT01161108	HT01161109
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	26-June-2023	26-June-2023	26-June-2023
Due date of calibration	25-June-2028	25-June-2028	25-June-2028

State: Telangana

- Name of SPv: Mytrah Abhinav Power Pvt Ltd
- Site Name: Gadwal (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy Meter	Energy meter
Meter Make	L&T	L&T	L&T
Meter serial Number	0023017585	0023017586	0023017470
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	27-June-2023	27-June-2023	27-June-2023
Due date of calibration	26-Jun-2028	26-Jun-2028	26-Jun-2028

State: Telangana

- Name of SPv: Mytrah Abhinav Power Pvt Ltd
- Site Name: Tandur (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter

Meter Make	Elster		Elster		Elster	
Meter serial Number	2838075		2838076		2838077	
Accuracy class of meter	0.2S		0.2S		0.2S	
Calibration frequency	Once in 5 years		Once in 5 years		Once in 5 years	
Date of calibration	04-April-2018	31-October-2020	04-April-2018	31-October-2020	04-April-2018	31-October-2020
Due date of calibration	03-April-2023	30-October-2025	03-April-2023	30-October-2025	03-April-2023	30-October-2025

State: Telangana

- Name of SPv: Mytrah Abhinav Power Pvt Ltd
- Site Name: Nagarkurnool (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	Elster	Elster	Elster
Meter serial Number	2831529	2831530	2831531
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	09-03-2023	09-03-2023	09-03-2023
Due date of calibration	08-03-2028	08-03-2028	08-03-2028

State: Telangana

- Name of SPv: Mytrah Adarsh Power Private Limited
- Site Name: Reddypet (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	Secure Meter Limited	Secure Meter Limited	Secure Meter Limited
Meter serial Number	TSS04286	TSS04288	TSS04274
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years

Date of calibration	10-August-2020	10-August-2020	10-August-2020
Due date of calibration	09-August-2025	09-August-2025	09-August-2025

State: Telangana

- Name of SPv: Mytrah Adarsh Power Private Limited
- Site Name: Chegunta (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	Elster	Elster	Elster
Meter serial Number ¹¹	2838084	2838080	2831527
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	27-March-2023	27-March-2023	27-March-2023
Due date of calibration	26-March-2028	26-March-2028	26-March-2028

State: Telangana

- Name of SPv: Mytrah Adarsh Power Private Limited
- Site Name: Thunkibollaram (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	Elster	Elster	Elster
Meter serial Number	2838071	2838072	28380723
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	11-June-2021	11-June-2021	11-June-2021
Due date of calibration	10-June-2025	10-June-2025	10-June-2025

¹¹ The old meter (S/N: 2838079) was replaced with a new meter (S/N: 2838084) on April 18, 2022. Similarly, the old meter (S/N: 2838081) was replaced with a new meter (S/N: 2831527) on the same date. During the current verification, neither meter has been replaced.

State: Telangana

- Name of SPv: Mytrah Adarsh Power Private Limited
- Site Name: Tungathurthy (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	EDMI India Pvt. Ltd. Chennai	EDMI India Pvt. Ltd. Chennai	EDMI India Pvt. Ltd. Chennai
Meter serial Number	HT01161100	HT01161101	HT01161102
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	22-December-2020	22-December-2020	22-December-2020
Due date of calibration	21-December-2025	21-December-2025	21-December-2025

State: Telangana

- Name of SPv: Mytrah Adarsh Power Private Limited
- Site Name: Guntipally (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	Elster	Elster	Elster
Meter serial Number	02832434	02832435	02832436
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	08-September-2021	08-September-2021	08-September-2021
Due date of calibration	07-September-2026	07-September-2026	07-September-2026

State: Telangana

- Name of SPv: Mytrah Adarsh Power Private Limited
- Site Name: Shanigaram (Substation 132/33 KV)

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	Secure Meter Limited	Secure Meter Limited	Secure Meter Limited

Meter serial Number	APX01630	APX01635	APX01640
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	14-February-2022	14-February-2022	14-February-2022
Due date of calibration	13-February-2027	13-February-2027	13-February-2027

State: Telangana

- Name of SPv: Mytrah Agriya Power Private Limited
- Site Name: Kamareddy

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	Secure Meter Limited	Secure Meter Limited	Secure Meter Limited
Meter serial Number	APZ00439	APZ00440	APZ00441
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	03-November-2020	03-November-2020	03-November-2020
Due date of calibration	02-November-2025	02-November-2025	02-November-2025

State: Telangana

- Name of SPv: Mytrah Akaash Power Private Limited
- Site Name: K.M.Pally

	Main meter	Backup meter	Standby Meter
Type of meter	Energy meter	Energy meter	Energy meter
Meter Make	L&T	L&T	L&T
Meter serial Number	17250998	17250999	17251000
Accuracy class of meter	0.2S	0.2S	0.2S
Calibration frequency	Once in 5 years	Once in 5 years	Once in 5 years
Date of calibration	25-September-2020	25-September-2020	25-September-2020
Due date of calibration	24-September-2025	24-September-2025	24-September-2025

APPENDIX 4: MAJOR BREAKDOWN DETAILS

The plant is in continuous operation and there is some breakdown due to some unwanted circumstances the details of same is as such-

Breakdown & Down Grid Summary Sheet					
Date	Site / Location	Event Type	Equipment / Area Affected	Duration (HH:MM)	Root Cause / Remarks
05-04-2024	Gadwal – 15 MW	Breakdown	Inverter #2	01:30	Tripped due to overheating
12-04-2024	Kamareddy – 15 MW	Down Grid	Grid Feeder Line	03:45	External grid outage
20-05-2024	Hungund – 15 MW	Breakdown	HT Panel	00:50	Relay malfunction
02-06-2024	Balran – 25 MW	Down Grid	Transmission Line	02:10	Scheduled maintenance
15-07-2024	Thimmajipet – 15 MW	Breakdown	String IV	00:40	Cable fault
30-08-2024	Bareta – 25 MW	Down Grid	Grid Substation	04:20	Grid failure (DISCOM)
12-09-2024	Arvapally – 8 MW	Breakdown	Inverter #1	01:15	DC side fault
25-10-2024	Nagarkurnool – 15 MW	Down Grid	Grid Feeder Line	02:30	External grid trip
06-12-2024	Shanigaram – 15 MW	Breakdown	UPS / Battery	00:55	Battery discharge issue
14-01-2025	Tandur – 15 MW	Down Grid	Transmission Line	03:00	Grid maintenance
06-02-2025	Domakonda – 15 MW	Breakdown	Inverter #3	00:35	Internal fault
20-03-2025	Raibagh – 15 MW	Down Grid	Grid Substation	02:50	Grid instability