



Monitoring report form for CDM programme of activities
(Version 05.0)

MONITORING REPORT			
Title of the PoA	Welspun Renewable Energy Program		
UNFCCC reference number of the PoA	8261 ¹		
Version number of the PoA-DD applicable to this monitoring report	03.1		
Version number of this monitoring report	01		
Completion date of this monitoring report	26/09/2022		
Monitoring period number	First Monitoring Period		
Duration of this monitoring period	31/03/2013 – 30/03/2020 (Both days included)		
Monitoring report number for this monitoring period	Not Applicable		
Coordinating/managing entity	Walwhan Renewable Energy Limited		
Host Parties	Host Party of the PoA	Is this the host Party of a CPA covered in this monitoring report? (yes/no)	
	India	Yes	
Applied methodologies and standardized baselines	ACM0002: Consolidated baseline methodology for grid-connected electricity generation from renewable sources – Version 12 AMS.I.D: Grid connected renewable electricity generation – Version 17 Standardized Baseline: Not Applicable		
Sectoral scopes	1 : Energy industries (renewable - / non-renewable sources)		
Amount of GHG emission reductions or net anthropogenic GHG removals achieved by all CPAs covered in this monitoring report in this monitoring period	Amount achieved before 1 January 2013	Amount achieved from 1 January 2013 until 31 December 2020	Amount achieved from 1 January 2021
	0 t CO ₂ e	283,819 t CO ₂ e	0 t CO ₂ e
Amount of GHG emission reductions or net anthropogenic GHG removals estimated ex ante for this monitoring period in the CPA-DDs for the CPAs covered in this monitoring report	264,380 t CO ₂ e		

¹ https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/4ZK9SWCUA8MTHPYENG2VBQO5F3XJ17/view

PART I Monitoring of programme of activities (PoA)

SECTION A. Description of PoA

A.1. General description of PoA

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Walwhan Renewable Energy Limited (WREL) is in the business of generation of electricity through thermal and renewable energy sources. The proposed PoA is a step towards ensuring energy security, diversification of the grid generation mix and sustainable growth of the electricity generation sector in India.

WREL's long term vision to implement more than 1,000 MW of renewable energy projects in the country and the significant importance of revenues from sale of Certified Emission Reductions (CERs) to achieve this goal forms the basis of the implementation of this PoA. The PoA is a voluntary action and WREL will be the Coordinating / Managing Entity (CME) for all the component project activities (CPAs).

The PoA will support the development of new grid-connected renewable energy power plants in India and will cover the solar and wind energy technologies. It seeks to enable investment in large and small grid connected plants that export their generated output to the regional / national electricity grid in India.

Currently one CPA is registered under this PoA & PP anticipates the verification of the same CPA in this Monitoring Report.

A.1.1. Corresponding generic component project activities (CPAs)

Title and reference number of the corresponding generic CPA	Version of the PoA-DD	Sectoral scopes	Applied methodologies and standardized baselines
Welspun Renewable Energy Program	03.1	01-Energy industries (renewable/ non-renewable sources)	ACM0002: Consolidated baseline methodology for grid-connected electricity generation from renewable sources – Version 12

A.1.2. CPAs included in the PoA

Title and UNFCCC reference number of the CPA	Version of the PoA-DD	Title and reference number of the corresponding generic CPA	Crediting period type and duration	Covered in this monitoring report? (yes/no)
CPA 8261-P1-0001-CP1: Grid Connected Solar PV Power Project in Neemuch, Madhya Pradesh	03.1	Not Applicable	Renewable 31/03/2013 to 30/03/2020	Yes

A.2. Coordinating/managing entity

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Walwhan Renewable Energy Limited

SECTION B. Implementation of PoA

B.1. Description of implemented PoA

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The total installed capacity of the project is 25 MW, which comprises the installation of poly crystalline Solar Panels of capacity 235 Wp. The starting date of the CPA is 08/06/2012, which is the date of supply agreement for 2.25 MVA & 1.25 MVA Inverter duty transformers under this CPA. The Power Purchase Agreement executed with State Electricity Board on 24/02/2012. The project

has been commissioned in 3 stages, first on 26/09/2013, second on 06/10/2013 & third on 30/11/2013. The electricity generation started from 26/09/2013 along with the injection of electricity to grid. The crediting period of the CPA is 31/03/2013-30/03/2020.

The lifetime of the project activity is 25 years. The technology involved is environmentally safe & sound and is procured from world's renowned manufacturers. Further, there is no technology transfer associated with the project activity.

B.2. Post-registration changes to PoA

B.2.1. Corrections

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There are no corrections to programme information or parameters fixed at the registration or renewal of the PoA period

B.2.2. Inclusion of monitoring plan

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Not Applicable

B.2.3. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents

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Not Applicable as there are no permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents.

B.2.4. Changes to programme design

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Not Applicable as there are no changes to the programme design of the PoA.

B.2.5. Changes specific to afforestation or reforestation activities

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Not Applicable as the PoA doesn't involve afforestation or reforestation activities

PART II Monitoring of CPAs

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The CME has opted to implement a verification system for the DOE that will individually verify each CPA (instead of sampling) in order to determine the emission reductions from the CPA. The central database managed by the CME includes data that can be directly attributed to each CPA within the PoA, thereby allowing unambiguous determination of the emission reductions attributable to each CPA.

As per EB 55 Annex 38, par. 37, each request for issuance shall relate to all CPAs included in the PoA prior or during the specified monitoring period. Thus all CPAs will have to be monitored and verified in identical monitoring period.

There is only one CPA included in the PoA as of now.

Title and UNFCCC reference number of the CPA	Version of the PoA-DD	Title and reference number of the corresponding generic CPA	Crediting period type and duration	Covered in this monitoring report? (yes/no)
CPA 8261-P1-0001-CP1: Grid Connected Solar PV Power Project	03.1	Not Applicable	Renewable 31/03/2013 to	Yes

in Neemuch, Madhya Pradesh			30/03/2020	
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SECTION C. Implementation of CPAs

C.1. Description of implemented CPAs

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CPA 8261-P1-0001-CP1:

The project activity generates power using renewable energy source (Solar Energy) and sell the power generated to the National grid. The generated electricity is exported to the Indian grid system which is under the purview of the INDIAN electricity grid of India.

The project activity replaces anthropogenic emissions of greenhouse gases estimated to be approximately 37,739 tCO_{2e} per year, thereon displacing 40,450 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.

Project Investor	Project Type	Total Project Capacity	State	Usage
Walwhan Renewable Energy Limited	Solar	25 MW	Madhya Pradesh	Sale to Grid

The total installed capacity of the project is 25 MW, which comprises the installation of poly crystalline Solar Panels of capacity 235 Wp.

Technical specifications:

The project activity employed poly-crystalline photo voltaic technology with a module capacity of 235 Wp each. The total number of modules installed under this project activity is 106,380 which aggregate to the total installed capacity of 25 MW. The other equipment installed in the project activity is inverters and transformers. The total number of inverters for this CPA is 36 with an output of 630 kW each. The power generated by the Solar PV stepped up to 132 kV transmission line and delivered to Ratangarh substation. Bi-directional meters (Main meter and Check meter) installed to monitor the net electricity supplied by the project. The employed technology, i.e. poly-crystalline silicon Module- SPV technology and the installed capacity of the power plant i.e. 25 MW are fixed for the crediting period.

The starting date of the CPA is 08/06/2012, which is the date of supply agreement for 2.25 MVA & 1.25 MVA Inverter duty transformers under this CPA. The Power Purchase Agreement executed with State Electricity Board on 24/02/2012. The project has been commissioned in 3 stages, first on 26/09/2013, second on 06/10/2013 & third on 30/11/2013. The electricity generation started from 26/09/2013 along with the injection of electricity to grid. The crediting period of the CPA is 31/03/2013-30/03/2020.

C.2. Location of CPAs

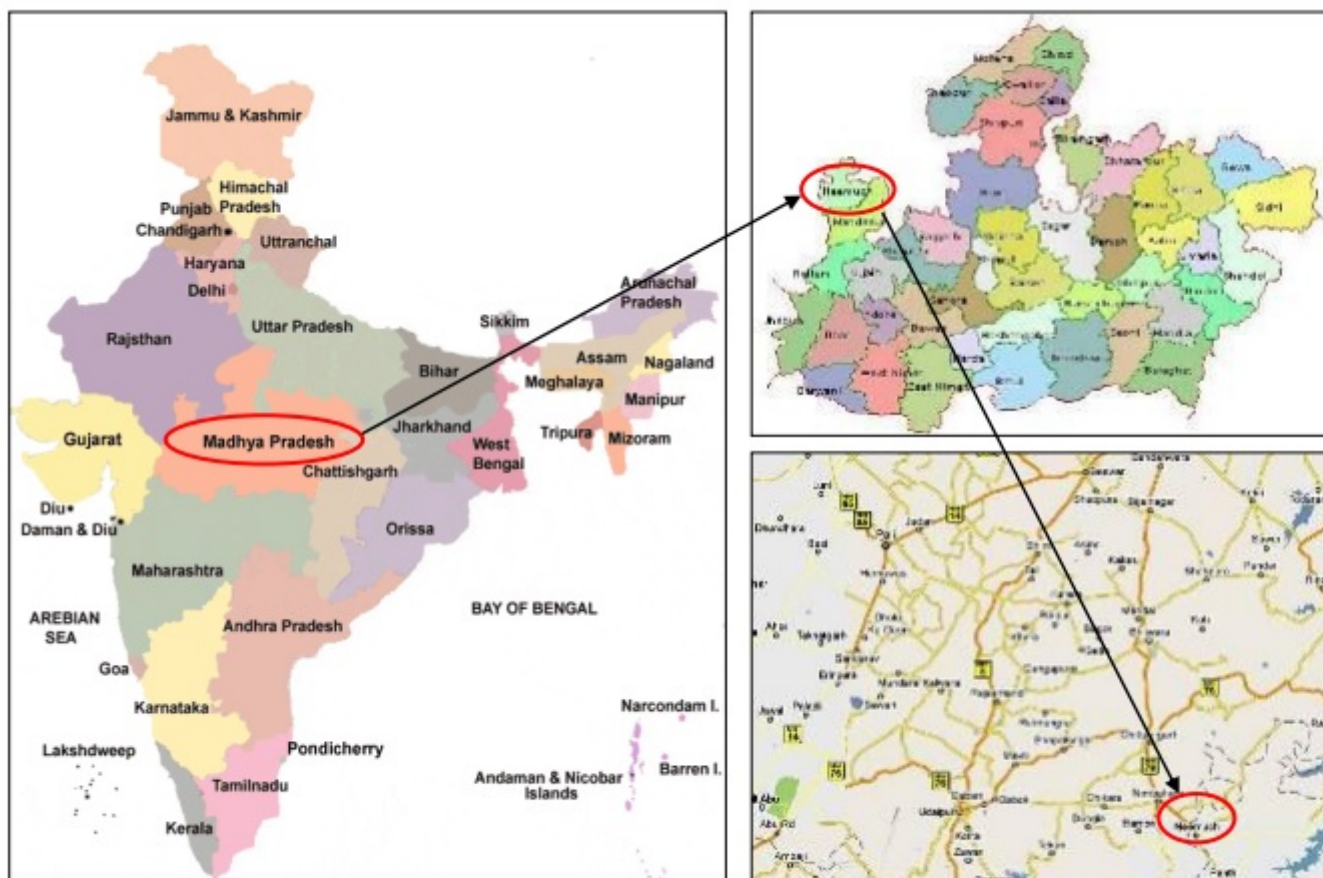
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8261-P1-0001-CP1:

Host Country: India
State: Madhya Pradesh
District: Neemuch
Village: Bhagawanpura

The location of the project activity has been mentioned in the map shown below:

Plant location	Capacity (MW)	Latitude (N)	Longitude (E)
Bhagawanpura	25 MW	24°41'26.46"	75°08'04.87"



Geographic location of the project activity

C.3. Post-registration changes to CPAs

C.3.1. Temporary deviations from the monitoring plans in the included CPA-DDs, applied methodologies, standardized baselines or other methodological regulatory documents

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Not Applicable as there are no temporary deviations during this monitoring period, for any of the CPAs covered in this monitoring period.

C.3.2. Corrections

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Not Applicable as there are no corrections to project information or parameters fixed at the inclusion or renewal of crediting period of any of the CPAs covered in this monitoring report.

C.3.3. Changes to the start date of the crediting period

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Not Applicable as there are no changes to the start date of the crediting period fixed at the inclusion of any of the CPAs covered in this monitoring report.

C.3.4. Inclusion of monitoring plan

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Not Applicable as there are no post-registration changes

C.3.5. Permanent changes to the included monitoring plans, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents

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Not Applicable as there are no permanent changes to the included monitoring plans, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents

C.3.6. Changes to project design

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Not Applicable as there are no changes to the project design of any of the CPAs covered in this monitoring report.

C.3.7. Changes specific to afforestation or reforestation CPA

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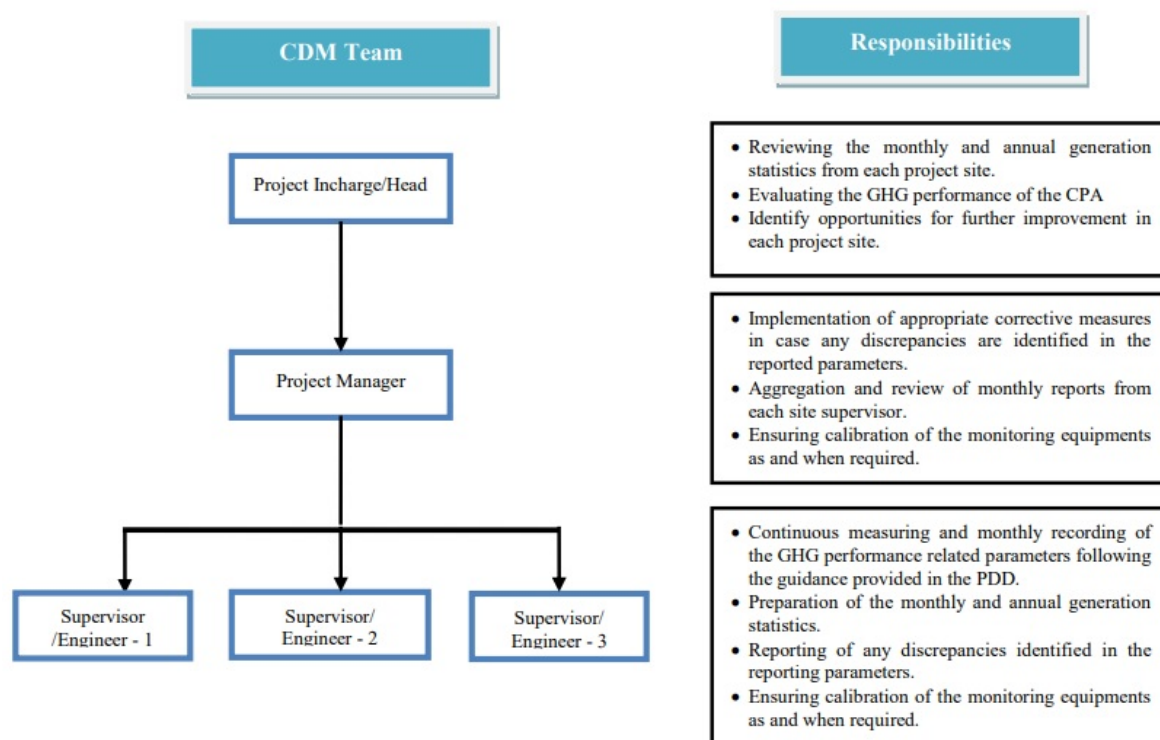
Not Applicable as it is not a afforestation or reforestation CPA

SECTION D. Description of monitoring system of CPAs

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The authority and responsibility of project management as well as registration, monitoring, measurement and reporting will rest with the WSMPPPL. A Project Team will be formulated by WSMPPPL to ensure proper and continuous monitoring of the power plant.

The operation and management structure that is implemented for the purpose of monitoring the CPA is illustrated below:



Operation and management structure

Monitoring Plan Objective and Organisation

The purpose of the monitoring plan is to measure the net electricity delivered to the NEWNE regional electricity grid (currently known as Indian grid) by the CPA. Within the CDM team, a supervisor is designated, who is responsible for compiling, monitoring and reporting of GHG performance related parameters (Process Parameters, Procedures, Calibration) of its allotted power plant.

This data collated from the power plant is aggregated by the next superior CDM team member. The data and documents received from each site supervisor gets compiled in a format called the CDM format / report. Quality checks undertaken at this level to ensure all discrepancies are addressed. The net electricity attributable to the CPA is calculated by subtracting the total electricity imported from the total electricity exported to the grid. The onus of reviewing, storing and archiving of all CDM related information relevant to the CPA in a suitable manner rest with this team member.

The Project Manager aggregates and review all the data received from site supervisors. The review conducted to ensure compliance to the requirements of the monitoring plan and other CDM modalities and procedures including calibration frequency. Corrective measures applied in case any discrepancy is observed. The Project Manager will further submit a consolidated report to the Project Incharge who review and sign the monthly performance from each CPA. This final report forwarded to the CDM PoA Team of WREL.

To ensure that the data is reliable and transparent, the project entity established Quality Assurance and Quality Control (QA&QC) measures to effectively control and manage data reading, recording, auditing as well as archiving data and all relevant documents.

Monitoring and Archiving of Data

The electricity generated from the project activity is transmitted along with that from any other solar power units that may be implemented in future in the region. After pooling, the entire electricity generation from the power units is evacuated through a 132 kV transmission line to the grid substation at Ratangarh.

Main and check meters are installed at the sub-station to measure the combined amount of electricity exported to and imported from the grid by the power units. The meters are Availability Based Tariff (ABT) compatible meters with an accuracy class of 0.5s or better. The monitoring data derived from periodic electricity meter records kept by PP and the grid authority, which can be cross-checked with actual invoices sent by PP to the grid authority.

Additionally, separate meters installed at the plant unit ends to measure the electricity exported and imported by each power unit (including the project activity) before it is pooled into the common transmission line. This monitoring data collected by PP on a daily basis and recorded in the power unit log books.

The CDM team within the operator of the power plant is responsible for collecting the monitoring data and provided to the coordinating entity with meter readings for electricity delivered and if available calibration certificates. Further, for cross-checking purposes, the project proponent also carry out measurements of gross electricity generation and auxiliary electricity consumption at the power plant, which are recorded in site log books.

All data archived electronically and be stored for 2 years after the end of the crediting period of each CPA by the coordinating entity.

Quality Assurance and Quality Control

The project entity implemented QA&QC measures to calibrate and guarantee the accuracy of metering and safety of the project operation. The metering devices calibrated and inspected properly and periodically as per standard industry norms / Power Purchase Agreement / National

or State Electricity Grid Code. Calibration of the energy meters undertaken by the grid utility or an authorized third party, at least once every three years, in accordance with Indicative simplified baseline and monitoring methodologies for selected small scale CDM project activity categories². In case the main meter is not in service, the check meters shall be used. The faulty meters will be duly repaired / replaced in case any error is observed in testing.

The CDM team meet periodically to review project parameters, check data collected, emissions reduced etc. The following is the procedure for taking corrective action and addressing any nonconformances discovered:

- All the mismatching data along with the name of the respective site manager and in-charge of logbooks name will be recorded in a Note Book.
- The respective site supervisors in the CDM team will send FAR (Forward Action Request) or CAR (Corrective Action Request) to the concerned CDM Member.
- After receipt of the communication, within one week, the concerned site in-charge will correct the data and will reply to the site supervisor in the CDM team.
- The corrected data will then be compiled by the respective site supervisors

SECTION E. Data and parameters

E.1. Data and parameters fixed ex ante

Data/Parameter	EF _{grid,OM,y}																		
Unit	tCO ₂ e/MWh																		
Description	Operating margin for the NEWNE grid (Currently Indian Grid) of India																		
Source of data	Central Electricity Authority(CEA) of India Database version 7.0 http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm																		
Value(s) applied	0.9842																		
Choice of data or measurement methods and procedures	Calculated from latest 3 years vintage data available with option of ex ante calculation based on Simple Operating Margin Method as per the “Tool to calculate the emission factor for an electricity system” Version 02.2.1. <table><tr><th colspan="3">Operating Margin Estimation for NEWNE Grid (tCO₂e/ MWh)</th></tr><tr><th>Year</th><th>Operating Margin (tCO₂e/MWh)</th><th>Net Generation (GWh)</th></tr><tr><td>2008-09</td><td>1.0066</td><td>421,083</td></tr><tr><td>2009-10</td><td>0.9777</td><td>462,327</td></tr><tr><td>2010-11</td><td>0.9707</td><td>476,987</td></tr><tr><td colspan="2">Generation Weighted Average OM</td><td>0.9842 (tCO₂e/MWh)</td></tr></table>	Operating Margin Estimation for NEWNE Grid (tCO ₂ e/ MWh)			Year	Operating Margin (tCO ₂ e/MWh)	Net Generation (GWh)	2008-09	1.0066	421,083	2009-10	0.9777	462,327	2010-11	0.9707	476,987	Generation Weighted Average OM		0.9842 (tCO ₂ e/MWh)
Operating Margin Estimation for NEWNE Grid (tCO ₂ e/ MWh)																			
Year	Operating Margin (tCO ₂ e/MWh)	Net Generation (GWh)																	
2008-09	1.0066	421,083																	
2009-10	0.9777	462,327																	
2010-11	0.9707	476,987																	
Generation Weighted Average OM		0.9842 (tCO ₂ e/MWh)																	
Purpose of data/parameter	Calculation of baseline emissions																		
Additional comments	This value is determined and fixed ex-ante for the first crediting period.																		

Data/Parameter	EF _{grid,BM,y}
Unit	tCO ₂ e/MWh
Description	Build margin for the NEWNE grid (Currently Indian Grid) of India
Source of data	Central Electricity Authority(CEA) of India Database version 7.0 http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm

² https://cdm.unfccc.int/EB/023/eb23_repan33.pdf

Value(s) applied	0.8588
Choice of data or measurement methods and procedures	Calculated from the latest year data available as per the "Tool to calculate the emission factor for an electricity system" Version 02.2.1.
Purpose of data/parameter	Calculation of baseline emissions
Additional comments	This value is determined and fixed ex-ante for the first crediting period.

Data/Parameter	EF _{grid,CM,y}								
Unit	tCO ₂ e/MWh								
Description	Combined margin for the NEWNE grid (Currently Indian Grid) of India								
Source of data	Based on calculation of OM and BM emission factors								
Value(s) applied	0.9528								
Choice of data or measurement methods and procedures	Calculated based on 75% weight provided to OM and 25% to BM according to the "Tool to calculate the emission factor for an electricity system" Version 02.2.1 for solar power project activity. <table border="1"> <thead> <tr> <th colspan="2">Combined Margin Estimation for NEWNE Grid (tCO₂e/MWh)</th></tr> </thead> <tbody> <tr> <td>OM (EF_{grid,OM,y})</td><td>0.9842</td></tr> <tr> <td>BM (EF_{grid,BM,y})</td><td>0.8588</td></tr> <tr> <td>CM (EF_{grid,CM,y})</td><td>0.9528</td></tr> </tbody> </table>	Combined Margin Estimation for NEWNE Grid (tCO ₂ e/MWh)		OM (EF _{grid,OM,y})	0.9842	BM (EF _{grid,BM,y})	0.8588	CM (EF _{grid,CM,y})	0.9528
Combined Margin Estimation for NEWNE Grid (tCO ₂ e/MWh)									
OM (EF _{grid,OM,y})	0.9842								
BM (EF _{grid,BM,y})	0.8588								
CM (EF _{grid,CM,y})	0.9528								
Purpose of data/parameter	Calculation of baseline emissions								
Additional comments	This value is determined and fixed ex-ante for the first crediting period.								

E.2. Data and parameters monitored

Data/Parameter	EG _{project,y}
Unit	MWh
Description	Quantity of net electricity generation supplied by the project activity measured at the plant unit end in year y
Measured/calculated/default	Measured
Source of data	Plant records
Value(s) of monitored parameter	298,202.39
Monitoring equipment	Electronic Meters
Measuring/reading/recording frequency	Measured continuously and recorded monthly
Calculation method (if applicable)	The quantity of net electricity generation will be recorded using electronic meters installed at the plant unit end by WSMPPPL officials on a monthly basis. It would be measured as the difference of: (i) The quantity of electricity supplied by the project activity to the grid and (ii) The quantity of electricity delivered to the project activity from the grid
QA/QC procedures	All the meters checked / tested for accuracy yearly in presence of grid utility and in accordance with the Power Purchase Agreement. The meters would be bi-directional with an accuracy class of 0.5s or better.
Purpose of data/parameter	Calculation of baseline emissions
Additional comments	The data will be kept for two years after the end of the crediting period or the last issuance of CERs for the CPA, whichever occurs later.

Data/Parameter	EG _{Other,y}
Unit	MWh
Description	Quantity of net electricity generation supplied by other units in the region measured at the plant unit end in year y
Measured/calculated/default	Measured
Source of data	Plant records
Value(s) of monitored parameter	298,202.39
Monitoring equipment	Electronic Meters
Measuring/reading/recording frequency	Measured continuously and recorded monthly
Calculation method (if applicable)	The quantity of net electricity generation will be recorded using electronic meters installed at the plant unit end by WSMPPPL officials on a monthly basis. It would be measured as the difference of: (i) The quantity of electricity supplied by the project activity to the grid and (ii) The quantity of electricity delivered to the project activity from the grid
QA/QC procedures	All the meters will be checked / tested for accuracy yearly in presence of grid utility and WSMPPPL officials in accordance with the Power Purchase Agreement. The meters would be bi-directional with an accuracy class of 0.5s or better.
Purpose of data/parameter	Calculation of baseline emissions
Additional comments	The data will be kept for two years after the end of the crediting period or the last issuance of CERs for the CPA, whichever occurs later.

Data/Parameter	EG _{All,y}
Unit	MWh
Description	Quantity of net electricity generation supplied by all the power units in the region (including the project activity) to the grid in year y
Measured/calculated/default	Measured
Source of data	Joint Meter Reading Sheets
Value(s) of monitored parameter	297,897.28
Monitoring equipment	Electronic Meters
Measuring/reading/recording frequency	Measured continuously and recorded monthly
Calculation method (if applicable)	The combined quantity of net electricity exported by all the power units in the region (including the project activity) to the grid in year y will be recorded using electronic ABT compliant main and check meters installed at the grid sub-station. Meter readings will be taken jointly by grid utility and WSMMPPL on monthly basis. It would be measured as the difference of: (i) The quantity of electricity supplied by all the power units to the grid; and (ii) The quantity of electricity delivered to all the power units from the grid

QA/QC procedures	All the meters will be checked / tested for accuracy yearly in presence of grid utility and WSMPPPL officials in accordance with the Power Purchase Agreement. The meters would be Availability Based Tariff (ABT) compatible meters with an accuracy class of 0.5s or better. In case the main meter is not in service, the check meters shall be used. The faulty meters will be duly repaired / replaced in case any error is observed in testing.
Purpose of data/parameter	Calculation of baseline emissions
Additional comments	The data will be kept for two years after the end of the crediting period or the last issuance of CERs for the CPA, whichever occurs later.

Data/Parameter	$EG_{facility,y}$
Unit	MWh
Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y
Measured/calculated/default	Measured
Source of data	Plant records
Value(s) of monitored parameter	297,897.28
Monitoring equipment	Electronic Meters
Measuring/reading/recording frequency	Calculated value
Calculation method (if applicable)	The quantity of net electricity generation supplied by the project plant/unit to the grid in year y shall be calculated by apportioning the combined net electricity exported to the grid that is metered at the grid-interconnection point based on the generation data recorded for the project activity and other power units by individual meters at the respective plant unit ends. $EG_{facility,y} = \frac{EG_{project,y}}{EG_{project,y} + EG_{other,y}} \times EG_{all,y}$
QA/QC procedures	Calculated value
Purpose of data/parameter	Calculation of baseline emissions
Additional comments	The data will be kept for two years after the end of the crediting period or the last issuance of CERs for the CPA, whichever occurs later.

E.3. Implementation of sampling plan

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Not Applicable

SECTION F. Calculation of emission reductions or net anthropogenic removals

F.1. Calculation of baseline emissions or baseline net removals

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Baseline Emissions:

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

Where:

 BE_y = Baseline emissions in year y (tCO₂e)

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh)

$EF_{grid,CM,y}$ = 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"

$$BE_y = 297,879.28 * 0.9528 = 283,819 \text{ tCO}_2\text{e (rounded down to nearest 0)}$$

F.2. Calculation of project emissions or actual net removals

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The project emissions are accounted for as follows:

$$PE_y = PE_{FF,y} + PE_{GP,y} + PE_{HP,y}$$

Where:

PE_y = Project emissions in year y (tCO₂e)

$PE_{FF,y}$ = Project emissions from fossil fuel consumption in year y (tCO₂e)

$PE_{GP,y}$ = Project emissions from the operation of geothermal power plants due to the release of non-condensable gases in year y (tCO₂e)

$PE_{HP,y}$ = Project emissions from water reservoirs of hydro power plants in year y (tCO₂e)

Since, the project activity is a solar power project, there are no project emissions from fossil fuel consumption, release of non-condensable gases or water reservoirs.

$$PE_y = 0$$

F.3. Calculation of leakage emissions

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According to the applied methodology, no leakage emissions are considered for large scale CPAs.

$$LE_y = 0$$

F.4. Calculation of emission reductions or net anthropogenic removals

CPA UNFCCC reference number	Baseline GHG emissions or baseline net GHG removals (t CO ₂ e)	Project GHG emissions or actual net GHG removals (t CO ₂ e)	Leakage GHG emissions (t CO ₂ e)	GHG emission reductions or net anthropogenic GHG removals (t CO ₂ e)			
				Before 01/01/2013	From 01/01/2013 until 31/12/2020	From 01/01/2021	Total amount
8261-P1-0001-CP1	283,819	0	0	0	283,819	0	283,819
Total	283,819	0	0	0	283,819	0	283,819

F.5. Comparison of emission reductions or net anthropogenic removals achieved with estimates in the included CPA-DDs

CPA UNFCCC reference number	Amount achieved during this monitoring period (t CO ₂ e)	Amount estimated ex ante for this monitoring period in the CPA-DD (t CO ₂ e)
8261-P1-0001-CP1	283,819	264,380
Total	283,819	264,380

F.5.1. Explanation of calculation of "amount estimated ex ante for this monitoring period in the CPA-DD"

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Considering the annual average emission reductions as per the registered CPA-DD which is 37,739 tCO₂e per year, the amount estimated ex ante emission reductions attributed to this

monitoring period comes out to be 264,380 tCO₂e. The detailed calculation can be referred from the emission reduction sheet.

F.6. Remarks on increase in achieved emission reductions

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The actual amount of GHG emission reductions achieved is 6.85% greater than the amount based on the ex-ante estimation in the registered CPA DD. It is due to the increase in the PLF of the project, which is influence by the climate conditions of the region. During present monitoring period, actual PLF of 19.42% has been achieved and with this 19.42% of PLF, project IRR is 10.05% which is well within the limits of WACC Benchmark of 16.97%. Hence, it is concluded that due to the increase in PLF there is no impact on the additionality of the project activity.

F.7. Remarks on scale of small-scale CPAs

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Not Applicable as it is a large scale project activity

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
05.0	8 October 2021	Revision to: • Ensure consistency with version 03.0 of the “CDM project standard for programmes of activities” (CDM-EB93-A07-STAN).
04.0	6 April 2021	Revision to: • Reflect the “Clarification: Regulatory requirements under temporary measures for post-2020 cases” (CDM-EB109-A01-CLAR).
03.0	31 May 2019	Revision to: • Ensure consistency with version 02.0 of the “CDM project standard for programmes of activities” (CDM-EB93-A07-STAN); • Add a section on remarks on the observance of the scale limit of small-scale CPAs during the crediting periods; • Add "changes specific to afforestation or reforestation activities/CPA" as a possible post-registration changes; • Clarify the reporting of net anthropogenic GHG removals for A/R PoAs between two commitment periods; • Make structural and editorial improvements.
02.0	7 June 2017	Revision to: • Ensure consistency with version 01.0 of the “CDM project standard for programmes of activities” (CDM-EB93-A07-STAN); • Make editorial improvements.
01.0	1 April 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: monitoring report, programme of activities		