

PROJECT CONCEPT NOTE

CARBON OFFSET UNIT (CoU) PROJECT

Bundled Small Scale Solar Power Project by M/s Dharamdeep

Commodities Pvt. Ltd. in Gujarat, India

Version : 1.0

PCN Date : 04/01/2025

CoU Issuance Period : 20 Years 03 Months

Monitoring

Title

Duration : 30/09/2022 to 31/12/2042



Project Concept Note (PCN) CARBON OFFSET UNIT (CoU) PROJECT

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	BASIC INFORMATION
Title of the project activity	Bundled Small Scale Solar Power Project by M/s Dharamdeep Commodities Pvt. Ltd. in Gujarat, India
Scale of the project activity	Small Scale
Completion date of the PCN	08/01/2025
Project participants	M/s. Creduce Technologies Private Limited (Project Aggregator) M/s Dharamdeep Commodities Pvt. Ltd. (Project Proponent)
Host Party	India
Applied methodologies and standardized baselines	Applied Baseline Methodology: AMS-I. D: "Grid connected renewable electricity generation", version 18 Standardized Methodology: Not Applicable.
Sectoral scopes	01 Energy industries (Renewable/Non-Renewable Sources)
Estimated amount of total GHG emission reductions	To be estimated during verification [An ex-ante estimate is 8406 CoUs per year]

SECTION - A - Description of project activity

A.1 General description of Carbon offset Unit (CoU) project activity

The proposed project titled under UCR is "Bundled Small Scale Solar Power Project by M/s Dharamdeep Commodities Pvt. Ltd. in Gujarat, India", which is a grid connected Solar Power project located in Patan district in the state of Gujarat (India). The purpose of this plant installation and power generation is for captive consumption. PP has the full ownership of the project activity. The project is an operational activity with continuous reduction of GHG, currently being applied under "Universal Carbon Registry" (UCR).

A.1.1 Purpose of the project activity:

The purpose of the proposed project activity is to generate electricity using a clean and renewable source of energy i.e., solar radiation. This project has been promoted by M/s Dharamdeep Commodities Pvt. Ltd. in Gujarat, India.

The proposed bundled project activity of 6.6 MW DC (i.e., 6601 KWp) is installation and operation of solar power plant as per below mentioned details.

SVP Name	Village	District	Туре	Total installed Capacity (DC)	Commissioning date
Dharmendra Pukhraj	Nidroda	Patan	Ground Mounted	1200.15 kW	30/09/2022 (first date of generation)
Sandipkumar Dharmendrakumar	Nidroda	Patan	Ground Mounted	1200.15 kW	30/09/2022
Dharmdeep Commodities Pvt. Ltd.	Nidroda	Patan	Ground Mounted	1200.15 kW	03/10/2022
Dharmendra P Jain	Nidroda	Patan	Ground Mounted	600.3 kW	03/10/2022
Nikkyben D Jain	Nidroda	Patan	Ground Mounted	600.3 kW	03/10/2022
Shrey D Jain	Nidroda	Patan	Ground Mounted	600.3 kW	03/10/2022
Sandip P Jain	Nidroda	Patan	Ground Mounted	600.3 kW	03/10/2022
Sweety S Jain	Nidroda	Patan	Ground Mounted	600.3 kW	03/10/2022

As per the ex-ante estimate, this project will generate approximately 11,563 MWh of electricity per annum considering an average PLF of 20%. The project encompasses eight different ground-mounted solar power plants at Nidroda village. Project owner has signed power purchase agreement with Uttar

Gujarat Vij Company Limited (UGVCL). With a total installed capacity of 6.6 MW (DC) the project activity uses Monocrystalline solar photovoltaic technology make by JINENERGY to generate clean energy. The generation of power from solar photovoltaic is a clean technology as there is no fossil fuel fired or no GHG gases are emitted during the process. Photovoltaic module consists of several photovoltaic cells connected by circuits and sealed in an environmentally protective laminate, which forms the fundamental building blocks of the complete PV generating unit. Several PV panels mounted on a frame are termed as PV Array. Thus, project activity leads to reduce the GHG emissions as it displaces power from fossil fuel-based electricity generation in the regional grid. The technological details have been provided in Section A.4.

The estimated annual average and the total CO2e emission reduction by the project activity is expected to be 8406 tCO2e, whereas actual emission reduction achieved during the first CoU period shall be submitted as a part of first monitoring and verification.

Since the project activity generates electricity through solar energy, a clean renewable energy source it will not cause any negative impact on the environment and thereby contributes to climate change mitigation efforts.

A.1.2 Project's Contribution to Sustainable Development

This project is a greenfield activity where grid power is the baseline. The Indian grid system has been predominantly dependent on fossil fuel-powered plants. Renewable power generation is gradually contributing to the share of clean & green power in the grid; however, the grid emission factor is still on the higher side which defines the grid as a distinct baseline.

The Government of India has stipulated the following indicators for sustainable development in the interim approval guidelines for such projects which are contributing to GHG mitigations. The Ministry of Environment, Forests & Climate Change, has stipulated economic, social, environmental, and technological well-being as the four indicators of sustainable development. It has been envisaged that the project shall contribute to sustainable development using the following ways:

Social well-being: There has been good employment opportunities created for the local workforce during the project construction phase. The project after implementation has also continued to provide employment opportunities for the local populace in a sustained manner and the same would be continued over the project life time. The employment opportunities created will contribute towards alleviation of poverty in the surrounding area throughout the lifetime of the project activity.

Economic well-being: The project is a clean technology investment decided based on carbon revenue support, which signifies flows of clean energy investments into the host country. The project activity requires temporary and permanent, skilled and semi-skilled manpower at the project location; this will create additional employment opportunities in the region. The electricity replaced in grid will be available for nearby area which directly and indirectly improves the economy and life style of the area. In addition, success of these kind of project will provide new opportunities for industries and economic activities to be setup in the area. Apart from getting better employment opportunities, the local people will get better prices for their land, thereby resulting in overall economic development.

Technological well-being: The successful operation of project activity would lead to promotion of solar

based power generation and would encourage other entrepreneurs to participate in similar projects. Increased interest in solar energy projects will further push R&D efforts by technology providers to develop more efficient and better machinery in future. The project activity leads to the promotion and demonstrates the success of solar projects in the region which further motivate more investors to invest in solar power projects. Hence, the project activity leads to technological well-being.

Environmental well-being: The project activity will generate power using zero emissions solar based power generation facility which helps to reduce GHG emissions and specific pollutants like SOx, NOx, and SPM associated with the conventional thermal power generation facilities. The project utilizes solar energy for generating electricity which is a clean source of energy. Also, being a renewable resource, use of solar energy to generate electricity contributes to resource conservation. It reduces the dependence on fossil fuels and conserves natural resources which are on the verge of depletion. The impact on land, water, air and soil is negligible. Thus, the project causes no negative impact on the surrounding environment contributing to environmental well-being.

SDG Goals	Description
Goal 7 7 AFFORDABLE AND CLEAN ENERGY	 The project activity will generate clean energy, which with increased shared will increase the affordability at a cheaper rate to end user. The project activity will utilize solar energy (renewal resource) to generate power. The project activity will increase the share of renewable resource-based electricity to global mix of energy consumption
Goal 8 8 DECENT WORK AND ECONOMIC GROWTH	 Decent work and economic growth. This project activity generates additional employment for skilled and unskilled, also the project situated in remote area will provide employment opportunities to unskilled people from villages. The training on various aspect including safety, operational issues and developing skill set will also be provided to employees This project will achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value
Goal 13	 This 6.6 MW bundled Solar project meet the SDG 13 goal by saving fossil fuel and produce clean energy. This project is expected to reduce CO₂ emission 8406 ton per year. SDG 13 on clean energy is closely related and complementary.



In a Greenfield project, electricity delivered to the grid by the project would have otherwise been generated by the operation of grid-connected power plants. Thereby the project activity reduces the dependence on fossil fuel-based generation units and as there are no associated emissions with this project it contributes to the reduction of greenhouse gases (GHG) emissions.

A.1.3 With regards to ESG credentials:

At present specific ESG credentials have not been evaluated, however, the project essentially contributes to various indicators which can be considered under ESG credentials. Some of the examples are as follows:

• Under Environment:

Environmental criteria may include a company's energy use, waste, pollution, natural resource conservation, and treatment of animals, etc. For the project proponent, the energy use pattern is now based on renewable energy due to the project and it also contributes to GHG emission reduction and conservation of depleting energy sources associated with the project baseline. Also, the criteria can be further evaluated on the basis of any environmental risks that the company might face and how those risks are being managed by the company. Here, as the power generation will be based on Solar power, the risk of environmental concerns associated with non-renewable power generation and risk related to increasing cost of power, etc. are now mitigated. Hence, the project contributes to ESG credentials.

• Under Social:

Social criteria reflect on the company's business relationships, qualitative employment, working conditions with regard to its employees' health and safety, interests of other stakeholders' etc. With respect to this project, the Project Proponent has robust policies in place to ensure equitable employment, health & safety measures, local jobs creation etc. Also, the organizational CSR activities directly support local stakeholders to ensure social sustainability. Thus, the project contributes to ESG credentials.

• Under Governance:

Governance criteria relates to overall operational practices and accounting procedure of the organization. With respect to this project activity, the PP practices a good governance practice with transparency, accountability and adherence to local and national rules & regulations etc. This can be further referred from the company's annual report. The electricity generated from the project can be accurately monitored, recorded and further verified under the existing management practice of the company. Thus, the project and the proponent ensure good credentials under ESG.

A.2 Do no harm or Impact test of the project activity

There was no harm identified form the project and hence no mitigations measures are applicable.

Rational: as per 'Central Pollution Control Board (Ministry of Environment & Forests, Govt. of India)', final document on revised classification of Industrial Sectors under Red, Orange, Green and White

Categories (07/03/2016), it has been declared that Solar project activity falls under the "White category". White Category projects/industries do not require any Environmental Clearance such as 'Consent to Operate' from PCB as such project does not lead to any negative environmental impacts. Additionally, as per Indian Regulation, Environmental and Social Impact Assessment is not required for Solar Projects.

Additionally, there are social, environmental, economic and technological benefits which contribute to sustainable development. The key details have been discussed in the previous section.

A.3 Location of the project activity

Country : India State : Gujarat

The project sites are well connected from airport and railway station. The geographic co-ordinates of the project locations are given below:

SVP Name	Village	District	Туре	Project location
Sandipkumar Dharmendrakumar	Nidroda	Patan	Ground Mounted	Latitude: 23°56'52.5"N Longitude: 72°11'27.3"E
Dharmendra Pukhraj	Nidroda	Patan	Ground Mounted	Latitude: 23°56'49.6"N Longitude: 72°11'30.6"E
Dharmdeep Commodities Private Limited	Nidroda	Patan	Ground Mounted	Latitude: 23°56'49.7"N Longitude: 72°11'26.4"E
Nikky D Jain	Nidroda	Patan	Ground Mounted	Latitude: 23°56'46.8"N Longitude: 72°11'22.2"E
Dharmendra P Jain	Nidroda	Patan	Ground Mounted	Latitude: 23°56'46.8"N Longitude: 72°11'21.8"E
Shrey D Jain	Nidroda	Patan	Ground Mounted	Latitude: 23°56'44.1"N Longitude: 72°11'23.3"E
Sandip P Jain	Nidroda	Patan	Ground Mounted	Latitude: 23°56'44.4"N Longitude: 72°11'26.8"E
Sweety S Jain	Nidroda	Patan	Ground Mounted	Latitude: 23°56'42.7"N Longitude: 72°11'28.1"E

The representative location map is shown below

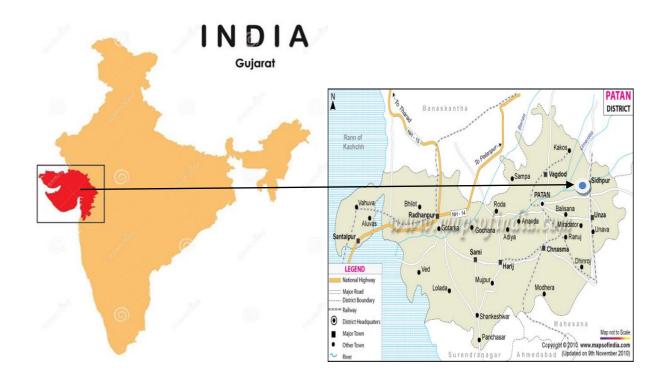


Figure-1- Location of the project activity (courtesy: google images and www.mapofindia.com)

A.4 Technologies/measures

The project activity is using clean renewable solar energy to produce electricity. The applied technology is considered to be one of the most environment friendly technologies available as the operation of the Solar photovoltaic does not emit any GHGs or any other harmful gases unlike the operation of conventional power plants.

Photovoltaic module consists of photovoltaic cells connected by circuits and sealed in an environmentally protective laminate, which forms the fundamental building blocks of the complete PV generating unit. Several PV panels mounted on a frame are termed as PV Array. The project activity has used the reliable and proven technology to ensure that an environmentally safe and sound technology is only being implemented in the proposed project activity leading to the GHG reduction.

In the absence of the project activity, the equivalent amount of electricity imported from the NEWNE grid would have been generated from the NEWNE grid, which is predominantly based on fossil fuels¹, hence baseline scenario of the project activity is the grid-based electricity system, which is also the preproject scenario.

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¹ http://www.cea.nic.in/executive_summary.html

Salient features of the three 1200 kW Ground Mounted technology plants for are:

Parameter	Description
Total number of Photovoltaic Modules and rating	3 * (2267/450 Wp) = 6801/450 Wp
Module make	JINENERGY
Technology	Monocrystalline
No. of Inverter	3 * (5) = 15
Invertor Capacity	200 kW
Invertor type/make	String/Sungrow

Salient features of the five 600 kW Ground Mounted technology plants are:

Parameter	Description
Total number of Photovoltaic Modules and rating	5 * 1334/450 Wp = 6670/450 Wp
Module make	JINENERGY
Technology	Monocrystalline
No. of Inverter/Rating	5 * (2/200 kW) = 10/200 kW
	5 * (1/100 kW) = 5/500 kW
Total Inverter	15
Invertor type/make	String/Sungrow

A.5 Parties and project participants

Party (Host)	Participants			
India	Creduce Technologies Private Limited (Aggregator)			
	Contact person	Shailendra Singh Rao		
	Mobile	+91 9016850742, 9601378723		
		2-O-13,14 Housing Board Colony, Banswara, Rajasthan -327001, India		
	M/s Dharamdee	ep Commodities Pvt. Ltd. in Gujarat, India (Project Owner)		
	Address: 301-300	6, Anmol Business Center, Vrundavan Colony, Opp. Neeldeep		
	Complex, Nr. Gujarat (India) - 3			

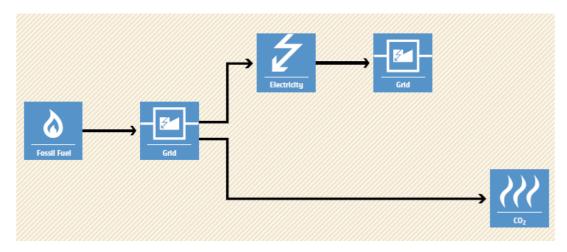
A.6 Baseline Emissions

The baseline scenario identified at the PCN stage of the project activity is:

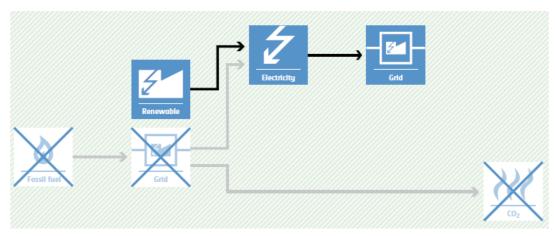
In the absence of the project activity, the equivalent amount of electricity would have been imported from the grid (which is connected to the unified Indian Grid system (NEWNE Grid)), which is carbon intensive due to being predominantly sourced from fossil fuel-based power plants. Hence, the baseline scenario of the project activity is the grid-based electricity system, which is also the pre-project scenario.

Schematic diagram showing the baseline scenario:

Baseline Scenario:



Project Scenario:



A.7 De-bundling

This project activity is bundled component of eight-project activity.

SECTION - B - Application of methodologies and standardized baselines

B.1 Reference to methodologies and standardized baselines

Sectoral scope : 01, Energy industries (Renewable/Non-renewable sources)

Type : I-Renewable Energy Projects

Category AMS. I.D. (Title: "Grid connected renewable electricity generation"

: version 18)

B.2 Applicability of methodologies and standardized baselines

The project activity involves generation of grid connected electricity from the construction and operation of a new Solar power-based power project. The project activity has installed capacity of 6.6 MW which will qualify for a small-scale project activity under Type-I of the Small-Scale methodology. The project status is corresponding to the methodology AMS-I.D., version 18 and the applicability of the methodology is discussed below:

Applicability Criterion	Project Case
 This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass: (a) Supplying electricity to a national or a regional grid; or (b) Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling. 	The project activity is a Renewable Energy Project which falls under applicability criteria option 1 (b) i.e., "Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling". Hence the project activity meets the given applicability criterion.
 2 This methodology is applicable to project activities that: (a) Install a Greenfield plant; (b) Involve a capacity addition in (an) existing plant(s); (c) Involve a retrofit of (an) existing plant(s); (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s). 	The option (a) of applicability criteria 2 is applicable as project is a Greenfield plant /unit. Hence the project activity meets the given applicability criterion.

- 3. Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology:
- (a) The project activity is implemented in existing reservoir, with no change in the volume of the reservoir; or
- (b) The project activity is implemented in existing reservoir, where the volume of the reservoir(s) is increased and the power density as per definitions given in the project emissions section, is greater than 4 W/m².
- (c) The project activity results in new reservoirs and the power density of the power plant, as per definitions given in the project emissions section, is greater than 4 W/m²

4. If the new unit has both renewable and non-renewable components (e.g., a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of

the entire unit shall not exceed the limit of

The project activity involves installation of Solar PV (SPV). Hence, this criterion is not applicable.

The proposed project is 6.6 MW solar power project, i.e., only component is renewable power project below 15 MW, thus the criterion is not applicable to this project activity.

5. Combined heat and power (co-generation) systems are not eligible under this category.

15 MW.

This is not relevant to the project activity as the project involves only solar power generating units.

6. In the case of project activities that involve the capacity addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct from the existing units.

This is a green field project and no expansion and retrofitting were carried out. Hence this criterion is not applicable.

7. In the case of retrofit, rehabilitation or replacement, to qualify as a small-scale project, the total output of the retrofitted, rehabilitated or replacement power plant/unit shall not exceed the limit of 15 MW.

The project activity is a new installation, it does not involve any retrofit measures nor any replacement and hence is not applicable for the project activity. 8. In the case of landfill gas, waste gas, wastewater treatment and agro-industries projects, recovered methane emissions are eligible under a relevant Type III category. If the recovered methane is used for electricity generation for supply to a grid, then the baseline for the electricity component shall be in accordance with procedure prescribed under methodology. If the recovered methane is used for heat generation or cogeneration other applicable Type-I methodologies such as "AMS-I.C.: Thermal energy production with or without electricity" shall be explored.

This is not relevant to the project activity as the project involves only solar power generating units.

9. In case biomass is sourced from dedicated plantations, the applicability criteria in the tool "Project emissions from cultivation of biomass" shall apply.

No biomass is involved, the project isonly a solar power project and thus the criterion is not applicable to this project activity.

B.3 Applicability of double counting emission reductions

There is no double accounting of emission reductions in the project activity due to the following reasons:

- Project is uniquely identifiable based on its location coordinates,
- Project has a dedicated commissioning certificate and connection point,
- Project is associated with energy meters which are dedicated to the consumption point for the project developer.

B.4 Project boundary, sources, and greenhouse gases (GHGs)

As per applicable methodology AMS-I.D. Version 18, "The spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the project power plant is connected to."

Thus, the project boundary includes the Solar Power Plant and the Indian grid system.

	Source	Gas	Included?	Justification/Explanation
		CO_2	Yes	Main emission source
ine	Grid connected	CH ₄	No	Minor emission source
Baseline	electricity	N ₂ O	No	Minor emission source
	generation	Other	No	No other GHG emissions were emitted from the project

	Source	Gas	Included?	Justification/Explanation
	Greenfield	CO ₂	No	No CO ₂ emissions are emitted from the project
Project	Solar Electric	CH ₄	No	Project activity does not emit CH ₄
Prc	Power project	N ₂ O	No	Project activity does not emit N ₂ O
	Activity	Other	No	No other emissions are emitted from the project

B.5 Establishment and description of the baseline scenario

As per the approved consolidated methodology AMS-I.D. Version 18, if the project activity is the installation of a new grid-connected renewable power plant/unit, the baseline scenario is the following:

"The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid".

The project activity involves setting up a new Solar power plant to harness green energy from solar sources. In the absence of the project activity, the equivalent amount of power would have been supplied by the Indian grid, which is fed mainly by fossil fuel-fired plants. Hence, the baseline for the project activity is the equivalent amount of power produced at the Indian grid.

A "grid emission factor" refers to a CO₂ emission factor (tCO₂/MWh) that will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.727 tCO₂/MWh for the 2013 - 2024 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Also, for the vintage 2025, the combined margin emission factor calculated from the CEA database in India results in higher emissions than the default value. Hence, the same emission factor has been considered to calculate the emission reduction under a conservative approach.

B.5.1 Net GHG Emission Reductions and Removals

Thus, $ER_y = BE_y - PE_y - LE_y$

Where:

 ER_v = Emission reductions in year y (tCO₂/y)

 BE_y = Baseline Emissions in year y (tCO₂/y)

 PE_y = Project emissions in year y (tCO₂/y)

 LE_y = Leakage emissions in year y (tCO₂/y)

• Baseline Emissions

Baseline emissions include only CO₂ emissions from electricity generation in power plants that are displaced due to the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants. The baseline emissions are to be calculated as follows:

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

 BE_y = Baseline emissions in year y (tCO₂)

 $EG_{PJ,y}$ = 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)

 $EF_{grid,y}$ = UCR recommended emission factor of 0.727 tCO₂/MWh has been considered.

(Reference: General Project Eligibility Criteria and Guidance, UCR Standard,

page 4)

Estimated annual baseline emission reductions (BE_v)

= 11,563 MWh/year *0.727 tCO2/MWh

 $= 8406 \text{ tCO}_2/\text{year}$

Hence Net GHG emission reduction, = 8406-0-0 = 8406 tCO₂/year (i.e., 8406 CoUs/year)

• Project Emissions

As per Paragraph 39 of AMS-I.D. version-18, only emissions associated with fossil fuel combustion, emissions from the operation of geothermal power plants due to the release of non-condensable gases, emissions from a water reservoir of Hydro should be accounted for the project emission. Since the project activity is a Solar Electric Power project, project emission for renewable energy plants is nil.

Thus, PE = 0

• Leakage Emission

As per paragraph 42 of AMS-I.D. version-18, 'If the energy generating equipment is transferred from another activity, leakage is to be considered.' In the project activity, there is no transfer of energy-generating equipment and therefore the leakage from the project activity is considered zero.

Hence, LE = 0

The actual emission reduction achieved during the first CoU period shall be submitted as a part of the first monitoring and verification. However, for the purpose of an ex-ante estimation, the following calculation has been submitted:

B.6 Prior History

The project activity is a small-scale Solar project and was not applied under any other GHG mechanism prior to this registration with UCR. Also, project has not been applied for any other environmental crediting or certification mechanism. Hence project will not cause double accounting of carbon credits (i.e., COUs).

B.7 Changes to the start date of crediting

There is no change in the start date of crediting period.

The start date of crediting under UCR is considered as 30/09/2022, which is the day when electricity generation started.

B.8 Permanent changes from PCN monitoring plan, applied methodology or applied standardized baseline

Not applicable.

B.9 Monitoring period number and duration

Total Monitoring Period: 20 Years 03 Months

Date: 30/09/2022 to 31/12/2042 (inclusive of both dates).

B.10 Monitoring Plan

Data and Parameters available (ex-ante values):

Data / Parameter	UCR recommended emission factor
Data unit	tCO ₂ /MWh
Description	A "grid emission factor" refers to a CO ₂ emission factor (tCO ₂ /MWh) which will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.727 tCO ₂ /MWh for the 2013 - 2025 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach.
Source of data	https://a23e347601d72166dcd6- 16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com//Documen ts/UCRStandardAug2024updatedVer7_020824191534797526.pdf https://cea.nic.in/wp- content/uploads/2021/03/User_Guide_Version_20.0.pdf
Value applied	0.727
Measurement methods and procedures	-
Monitoring frequency	Ex-ante fixed parameter
Purpose of Data	For the calculation of Emission Factor of the grid
Additional Comment	The combined margin emission factor as per CEA database (current version 20, Year 2024) results into conservative emission factor. Hence for 2024 vintage CEA emission factor is chosen.

Data and Parameters to be monitored (ex-post monitoring values):

Data / Parameter	EG _{PJ} , facility, y
Data unit	MWh
Description	Net electricity supplied to the NEWNE grid facility by the project activity
Source of data	Joint Meter Reading report/Energy generation report
Measurement	Data Type: Measured
procedures (if any):	Monitoring equipment: Energy Meters are used for monitoring

	Recording Frequency: Continuous monitoring and Monthly recording from Energy Meters, Summarized Annually
	Archiving Policy: Paper & Electronic Calibration frequency: 5 years (as per CEA provision)
	Based on the joint meter reading certificates/credit notes, and energy generation report.
Measurement Frequency:	Monthly
Value applied:	11,563 (Ex-ante estimate)
QA/QC procedures applied:	Calibration of the Main meters will be carried out once in five (5) years as per National Standards (as per the provision of CEA, India) and faulty meters will be duly replaced immediately as per the provision of power purchase agreement.
Purpose of data:	The Data/Parameter is required to calculate the baseline emission.
Any comment:	Data will be archived electronically for a period of 36 months beyond the end of crediting period.