



VERIFICATION REPORT FOR

“BUNDLED SOLAR POWER PROJECT BY D.J. MALPANI AND GIRIRAJ ENTERPRISES”



Document Prepared By: LGAI Technological Center, S.A. (Applus+ Certification)

Project Title	Bundled Solar Power Project By D.J. Malpani And Giriraj Enterprises
Version	02
Report ID	BELL_CDM_2021_IND Bundle Solar DJ Malpani_VCS_VER

Report Title	Verification Report for “Bundled Solar Power Project By D.J. Malpani
--------------	--

	And Giriraj Enterprises"
Client	M/s: DJ Malpani
Pages	35
Date of Issue	17/09/2021
Prepared By	LGAI Technological Center, S.A. (Applus+ Certification)
Contact	Campus UAB – Ronda de la Font del Carme, s/n 08193 Bellaterra – Barcelona (Spain) Tel.:+34 93 567 20 08 Fax.:+34 93 567 20 01 www.appluscertification.com agustin.calle@applus.com carla.debat@applus.com
Approved By	LGAI Technological Center S.A. (Applus+ Certification) VVB Technical Manager – Mr. Agustín Calle de Miguel
Work Carried Out By	Vivek Kumar Ahirwar, as Lead Auditor Simon Shen, as Technical Reviewer

Summary:

LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by M/s. D. J. Malpani. to conduct the verification of the project “Bundled Solar Power Project By D.J. Malpani And Giriraj Enterprises”, VCS ID 1670, against VCS Standard Version 4.1.

The verification includes confirming the implementation of the monitoring plan of the registered VCS PD and MR (Project ID 1670) and the application of the monitoring methodology as per ACM0002, Version 17 “Grid-connected electricity generation from renewable sources”.

The project activity involves generation of electricity by using the renewable energy source (solar) supplying to the Indian electricity grid. Thus the project aims to displace electricity produced by fossil fuel power plants harnessing solar energy. Therefore, the project reduces greenhouse gas emissions and thereby contributes to sustainable development.

A risk based approach has been followed to perform this verification. In the course of verification, 04 Corrective Action request (CARs), 00 Forward Action Request (FAR) and 01 Clarification request (CLs) were raised and successfully closed.

The review of the project design documentation, monitoring report and additional documents related to baseline and monitoring methodology; the subsequent background investigation, telephonic interviews and stakeholders have provided Applus+ Certification with sufficient evidence to validate the fulfillment of the stated criteria.

Applus+ Certification confirms that the project is implemented in accordance with the registered VCS PD. The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the project’s GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information seen and evaluated we confirm that the emission reductions from the project activity “Bundled Solar Power Project By D.J. Malpani And Giriraj Enterprises” in India during the period 01-January-2021 to 30-June-2021 (including both dates) amount to 48,803 tons of CO₂e.

Table of Contents

1	Introduction.....	5
1.1	Objective.....	5
1.2	Scope and Criteria	5
1.3	Level of Assurance.....	5
1.4	Summary Description of the Project	6
2	Verification Process	8
2.1	Method and Criteria.....	8
2.2	Document Review	8
2.3	Interviews.....	8
2.4	Site Inspections.....	9
2.5	Resolution of Findings	13
2.6	Eligibility for Validation Activities	14
3	Validation Findings	14
3.1	Participation under Other GHG Programs	14
3.2	Methodology Deviations.....	15
3.3	Project Description Deviations.....	15
3.4	Grouped Project	15
4	Verification Findings	15
4.1	Project Implementation Status	15
4.2	Safeguards	19
4.3	AFOLU-Specific Safeguards	20
4.4	Accuracy of GHG Emission Reduction and Removal Calculations	20
4.5	Quality of Evidence to Determine GHG Emission Reductions and Removals	21
4.6	Non-Permanence Risk Analysis.....	26
5	Verification conclusion.....	27
	APPENDIX 1: DOCUMENT REFERENCES.....	29
	APPENDIX 2: COMPETENCY STATEMENT.....	30
	APPENDIX 3: ABBREVIATIONS.....	32
	APPENDIX 4: Findings Overview	33

1 INTRODUCTION

1.1 Objective

Applus+ Certification has been contracted by M/s. D. J. Malpani. (authorised representative of project proponent), to undertake the verification of the renewable energy project titled “Bundled Solar Power Project By D.J. Malpani And Giriraj Enterprises”(VCS ID-1670).The verifiers have reviewed the GHG data collected to date for the monitoring period from 01-January-2021 to 30-June-2021 (both dates included) covered in this verification.The objective of this verification is a thorough and independent assessment of registered project activities against the applicable VCS requirement by the VVB. The verification process shall determine whether the proposed project activity complies with the requirements of latest VCS guidelines, applicability conditions of the selected methodology, relevant host country regulations and guidance issued by the VCS Board.

1.2 Scope and Criteria

The scope of the verification was the independent and objective review and ex-post determination of the monitored reductions in GHG emissions from “Bundled Solar Power Project By D.J. Malpani And Giriraj Enterprises” The verification of this project was based on the registered project description/01/ & monitoring report /04/ and supporting documents submitted by the project proponent to the verification team. The documents were reviewed against the following guidance and protocols:

- VCS Standard: VCS standard Version 4.1, Issued:19/09/2019Updated: 22-April-2021
- Approved baseline and monitoring methodology ACM0002, Version 17, “Grid-connected electricity generation from renewable sources”.
- Approved VCS PD, version 2, dated 27/03/2016
- Final Validation Report, version 01 dated 30/03/2017
- VCS Program Guide, Version 4.0, dated 19/09/2019
- CDM VVS and PS for project activities version 02.0

The verification is not meant to provide any consulting towards the client. However, stated request for clarifications and/or corrective actions may provide input for improvement of the project design.

1.3 Level of Assurance

The level of assurance of the verification report falls under reasonable assurance engagements as selected by the Client. The verification team verified the complete monitoring data for all the parameters of the monitoring plan and confirms that the reported emission reductions are free from any type of material errors.

1.4 Summary Description of the Project

The purpose of the bundled project activity is to generate power using renewable energy source (solar energy) and sell the power generated to the state grid. The project activity generates electricity using solar energy. The generated electricity is exported to the regional grid system which is under the purview of the INDIAN electricity grid of India. The project activity results in reductions of greenhouse gas (GHG) emissions that are real, measurable, and verifiable and also plays beneficial role in the mitigation of climate change.

The project activity involves installation and operation of 56.25 MW (16.25 MW and 40 MW). The bundled project consists 2 solar projects and the details of the projects are given below:

Project Investors	Project	Project Capacity in AC	Date of commissioning	Project location	State
M/s. D. J. Malpani	Solar	16.25 MW	31-03-2015	Village- Hoti Tehsil- Zaheerabad Mandal, District- Medak	Telangana
Giriraj Enterprises	Solar	40 MW	23-09-2015	Village- Sengottai, Tehsil- Virudhunagar, District- Virudhunagar	Tamil Nadu

The solar power does not involve any fossil fuel consumption and hence the project does not lead to any greenhouse gas emissions. Thus, electricity would be generated through sustainable means without causing any negative impact on the environment.

The geo-coordinates of the location are as follows:

Project owner	Latitude	Longitude
M/s. D. J. Malpani	17°39'21.08" N	77°33'24.55" E
Giriraj Enterprises	9°38'8.03" N	77°33'24.55" E

Location of the project was verified through Google Map (<https://www.gps-coordinates.net/>) and found consistent with the data provided in the registered PD /01/. The monitoring period

this VCS verification covered from 01-January-2021 to 30-June-2021 (inclusive of both dates) and the project activity is achieved 48,803tCO₂e emission reductions during this monitoring period.

Assessment team checked the Commission of both project site with the commissioning Certificates and found correct. The project is implemented as per the description in the registered Joint PD and Monitoring Report. No event observed during the current monitoring period which can alter or deviate from the methodology requirement.

2 VERIFICATION PROCESS

The registered VCS project is undergoing second verification under VCS, the approach adopted to ensure the quality of emission reductions is described in the following sections.

2.1 Method and Criteria

Verification was conducted using Applus+ Certification procedures in line with the requirements specified in the VCS standard Version 4.1 Requirements, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant decisions of the COP/MOP and the CDM EB and applying standard auditing techniques. The project activity does not fall under category “grouped projects”, hence any sampling methods are not to be employed by the validation/verification body for the verification of GHG emission reductions or removals generated by the project.

It is to be assessed and determined whether the proposed implementation and operation of the project activity, and the steps taken to report emission reductions comply with the criteria and relevant guidance provided by the VCS Board. The verification process consists of the following three phases;

A desk review of the VCS PD and VCS MR.

Telephonic interviews with project stakeholders

The resolution of outstanding issues and issuance of final report and opinion.

2.2 Document Review

The verification is performed primarily as a document review of the registered VCS PD/01/, previous MR and Verification report and associated documents as stated in detail in appendix 1 of this document. The assessment is performed by a verification team referring the Applus+ Certification internal procedures in line with latest VCS requirements. The cross checks between information provided in the Monitoring report, VCS PD and information from sources other than those used, if available, the team’s sectoral or local expertise and, if necessary, independent background investigations.

2.3 Interviews

Due to the current situation with the global COVID-19 pandemic scenario and country wide lock down in India, an on-site inspection has not been performed by the assessment team. However, the representatives of the PP and O&M contractors were interviewed Skype and telephonically on 31/08/2021 i.e. personnel responsible for monitoring of the project activity, data collection and management, and QA/QC procedure. The details of the people interviewed are mentioned in the table below:

S N	Name	Organization
1	Mr. Kailash Bankar	DGM, Giriraj Enterprises
2	Mr. Karunaraja	Site engineer from Giriraj Enterprises
3	Mr. Baudev	Project Site In charge from D J Malpani
4	Mr. Sagar Durgavale	Sr. Manager from Giriraj Enterprises
5	Md. Moonis	Consultant- EKI Energy services Ltd.
6	Mr. Barun Sharma	Consultant- EKI Energy services Ltd.

The topics covered during interview ranges from general features and implementation of project to technical details of the project like calibration details, monitoring and measuring system and data collection, recording and archiving procedures. Also, during the interviews, local employment, stakeholders input mechanism etc. were discussed. The assessment was drawn based on the feedback received during telephonic/Skype interview coupled with the documentation.

2.4 Site Inspections

As discussed in the above section, physical site inspection is not done for the current verification. However to achieve a reasonable level of assurance, the assessment team has followed the alternative means to substantiate the verification criteria as described in the below table:

Assessment Criteria	Means of verification/source documents	Assessment opinion
Description of project activity	i. Commissioning certificates /11/ ii. PPA signed with state utility /12/ iii. Latest VCS Validation Report /2/. iv. Telephonic/Skype interview on 31/08/2021	The information's with reference to project capacity, technology, plant equipment(s) and commissioning dates as provided in section 1.1 of MR are found consistent with the documents. Additionally, reported information at the time of validation (which was based on a site inspection by validating DOE) was also checked and found the current reporting consistent with the validated and registered project activity.
Compliance of the project implementation with the registered project design	i. Monthly B-Form and Energy breakup reports	B-Forms and energy breakup reports issued by SEB and PP indicate the following

Assessment Criteria	Means of verification/source documents	Assessment opinion
document	issued by SEB /08/ ii. Monthly energy accounting statements “REA” released by PP iii. Geographical co-ordinates (Location of solar plant) verified through Google Map iv. Latest VCS verification report /2/. v. PPA signed with state utility /12/ vi. Telephonic interview/Skype on 31/08/2021 vii. Photograph of all the Solar Plant, energy meters installed at site and screen shots of online monitoring system /18/	information: - Commissioning date - Feeder identification to which the solar plants are connected - Serial number of energy meters - Capacity of project - Name of project participant - Net active Energy exported Location of each solar plant is verified through Google Map. Daily generation records are verified to check the operational status of project activity. Also, checked the SCADA operation from the real-time screenshots. Grid connectivity of the project is confirmed through the PPA. All the information’s regarding the project implementation as discuss above are further verified through VCS verification report along with latest and found consistent.
Compliance of the registered monitoring plan with applied methodologies and standardized baselines	i. Telephonic/Skype interview on 31/08/2021 ii. PPA signed with state utility /12/ iii. Monthly JMR and energy breakup reports issued by SEB /08/ iv. Monthly energy accounting statements	The organizational structure, responsibilities and competencies of the personnel confirmed through telephonic interview. Frequency of monitoring of parameters listed under approved monitoring plan is verified through B-Forms /Invoices. The methods used for

Assessment Criteria	Means of verification/source documents	Assessment opinion
	“REA” released by PP v. Invoices raised by project developer to state utility/07/ vi. Photograph of all the Solar Plant, energy meters installed at site and screen shots of online monitoring system /18/	measuring, recording, storing, aggregating, and reporting the data on monitored parameters are verified through PPA and interactions with site personnel. Procedure for data uncertainty, emergency preparedness, roles and responsibility, operational and management structure are mentioned in the MR is confirmed through policy documents and found satisfactory.
Compliance with the calibration frequency requirements for measuring instruments	i. Calibration certificates of instruments/06/ ii. Monthly JMRs and energy breakup reports issued by SEB /08/ iii. Monthly energy accounting statements “REA” released by PP iv. PPA signed with state utility /12/ v. Central Electricity Authority (Installation and Operation of Meters) Regulations/15/	Calibration frequency and energy meter specifications (Sr.No, make accuracy class) is verified through calibration certificates and found consistent. There was no change of energy meters during the current monitoring period. All energy meter related information was reported in the MR, VVB has verified the same against the meter calibration reports. Responsibility of calibration and maintenance of energy meters is solely under control of SEB; this is verified through the PPA.
Assessment of data and calculation of emission reductions or net removals	i. Monthly B-Forms and energy breakup reports issued by SEB /08/ ii. Monthly energy accounting statements “REA” released by SEB iii. Invoices raised by	Monthly values of monitoring parameters used in ER calculation are verified through B-Forms and REA statements released by SEB and cross verified with the invoices. Methods, formulae and

Assessment Criteria	Means of verification/source documents	Assessment opinion
	project developer to state utility/07/ iv. CEA CO₂ Baseline Database for the Indian Power Sector /10/ v. Latest VCS validation report /2/	emission factor for calculating baseline emissions have been followed and they are found to be in accordance with the applied methodology and also to in the approved VCS verification report.

It is noteworthy that no sampling plan for verification is applied as 100% data is verified for the current monitoring period. Most of the reference documents referred by the assessment team (above table) are either issued /endorsed by state utility, are the external government agencies, hence is deemed authentic.

Furthermore the project activity has been already validated and registered under VCS and currently undergoing the periodic verification. Hence based on the information's available through approved documents (VCS validation), it can be confirmed that project is implemented and being operated as described in the registered PD.

The assessment team has verified sufficient appropriate audit evidences, to reduce audit risk to an acceptably low level as requisite to achieve reasonable level of assurance for the current verification.

2.5 Resolution of Findings

The objective of this step is to identify, discuss and conclude on the issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and reporting of emission reductions. This is done based on the desk review and telephonic interview of site personnel. The verification team prepares and/or updates a verification protocol (internal document) that records the conformities and non-conformities, which may be of following types;

CAR (Corrective Action Request) is raised if one of the following occurs:

Non-compliance with the monitoring plan, the methodology or the standardized baseline are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient;

Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;

Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;

Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

Clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met. All CARs and CLs raised by the Applus+ Certification during verification shall be resolved prior to submitting a request for issuance.

FAR (Forward Action Request) is raised during verification if the monitoring and reporting require attention and/or adjustment for the next verification period.

During the current verification, 04 Corrective Action request (CARs), 00 Forward Action Request (FAR) and 02 Clarification request (CLs) were raised and successfully closed.

All the findings that are raised and communicated to project participant during the verification are included under Appendix 4. The section also includes the response, if provided, by the project participants and an assessment by the verification team if it was closed out or otherwise.

2.5.1 Forward Action Requests

The project activity is undergoing second verification under VCS; there were no FARs raised during the validation or previous verification. Also during the current verification no FAR is raised.

2.6 Eligibility for Validation Activities

This section is not applicable for present verification, as Applus+ Certification holds the accreditation for Validation of projects under this Sectoral Scope

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project has not been developed under any other GHG mechanism or Programs.

A declaration is being submitted to DOE confirming the same.

3.2 Methodology Deviations

There is no methodology deviation identified during the current monitoring period

3.3 Project Description Deviations

There is no project description deviation applied during the current monitoring period. No deviation was involved in previous verification as well. The same is checked from project page and confirm by the assessment team.

3.4 Grouped Project

Not applicable. The project activity is not a grouped project

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

The During the Onsite interviews with PP & plant in-charge and subsequent document verification; commissioning certificates, JMR and invoices, it was concluded that the project is implemented as per the requirement of the registered VCD PD and approved monitoring plan. During the current monitoring period, it was observed that no unforeseen incident/event evolved which can impact the operation of the project activity which was verified from breakdown records. The project undergone continuous operation and only scheduled maintenance is observed as per the manufactures specification which is acceptable to the assessment team and evident from JMRs.

The project activity is installation of 56.25 MW solar power project consist of 16.25 MW and 40 MW owned by M/s D.J. Malpani and Giriraj Enterprises respectively. The same was verified through commissioning certificates. Site wise latitudes and longitudes are confirmed below:

Project owner	Village	Taluka	District	State	Latitude	Longitude
M/s. D. J. Malpani	Hoti	Zaheerabad Mandal	Medak	Telanagana	17°39'21.08" N	77°33'24.55" E
Giriraj Enterprises	Sengottai	Virudhunagar	Virudhunagar	Tamil Nadu	9°38'8.03" N	77°33'24.55" E

Verification team confirmed from the registered Joint PD Monitoring Report and from previous verification reports that the location of the project activity including the coordinates is same as mentioned in the registered Joint VCS PD and Monitoring Report. Assessment team checked the commissioning certificate and confirmed that the dates of Commission for the project sites are correct. Assessment team also conform during interview with the PPs representatives that there is no change in project design and the project is implemented as per the description provided in the VCS PD. The details of project and commissioning dates of Solar Modules are provided below:

Site	State	Capacity	Feeder Location Details
Virudhunagar Site	Tamil Nadu	40 MW	Virudhunagar Feeder
Zaheerabad Site	Telangana	16.25 MW	Zaheerabad Feeder

Solar Power Project Technology Details:

The technology employed, converts solar energy to electrical energy. In solar power generation, energy of solar is converted into mechanical energy and subsequently into electrical energy. The technology is an environment friendly technology since there are no GHG emissions associated with the electricity generation. There is no transfer of technology involved in the project activity. Assessment team also checked the technical details of the Solar PV Modules installed onsite from documents submitted by PP and previous verification reports. The same is cross checked from the photographs of the number plates, module capacity etc. submitted by PP & also cross checked from the technical details from Manufacturer.

Technical Details:

The technical Specifications for 16.25 MW project activity is as below:

CSUN 255-60P- Polycrystalline Solar PV modules,
Capacity DC – 17.92854 (70308 No of Nodules, 255-Watt capacity),
Inverter – ABB make, PVS800-57-1000KW-C

The technical Specifications for 40 MW project activity is as below:

Canadian Solar PV Modules, 315 Wp (CS6X-315P),
Capacity DC – 49.565280 (Total Modules (87024 + 72864 = 159,888) of 315-Watt capacity)
AC output capacity – 40 MW

The assessment team confirmed that there is no proposed or actual change to the project design during this monitoring period. The project design as mentioned in the registered PD is implemented and thus the same is acceptable to the assessment team. All required monitoring equipment's and procedures as mentioned in the registered PD are available and implemented in an appropriate manner. There was no major breakdown or shutdowns during the monitoring period which might affect the applicability of methodology or might cause material errors in emission reductions.

During the remote audit and from the various supporting documents, it was evident that the project activity is in continuous operation since commissioning and there is no such incident reported during the current monitoring period which may impact the operation & capacity design of the project activity. Therefore, no events have happened that may impact the GHG emission reductions or removals and monitoring in this monitoring Period. However, there was some change in billing procedure and change of energy meters during the current monitoring period which was as per the requirement of the state utility applicable for all power producers across the state. PP doesn't have any control on such events or not under the direct purview of PP. However, such changes in the process did not have any impact on the project operation, design and emission reductions.

The power generated through the proposed project activity being supplied to Indian grid through a contractual arrangement (PPA). The technical specification of the project activity solar power plant has been checked through the photographs of the solar plants installed at site, commissioning certificates and are found to be consistent with the mentioned under section 3.1 of MR. The current status of the project activity is verified through the screen shots of SCADA system/18/, indicating the real-time generation data and hence it is confirmed that the project is fully functioning.

The project boundary includes the solar project, sub-stations, grid and all power plants connected to grid. The project activity evacuates power to the Indian grid. Therefore, the entire Indian grid and all connected power plants have been considered in the project boundary for the project activity.

The project developer "D. J. Malpani and Giriraj Enterprises" is having a dedicated metering arrangement on in the project boundary diagram provided in section 4.3 of the MR. The meters are approved, tested & sealed by the State Utility. The meters are solely in the custody of State Utility. The frequency of calibration is once in 5 years as prescribed in the registered PD. All the meters are of 0.2s accuracy class.

The export and import energy will be measured continuously using above mentioned Main & Check meters. Export & Import readings of Main & Check meters shall be taken on monthly basis by authorized officer of state electricity board in the presence of PP or representative of PP. The meter readings will be taken jointly and signed by the representatives of the state electricity board and project investors.

In the absence or delay in the meter calibration appropriate guidelines will be applied appropriately to confirm the conservativeness of metering & monitored values.

The metering arrangement, accuracy class of meters, calibration frequency and apportioning approach is under control of state electricity board and project proponent (PP) does not have any control on it. PP is getting value of net electricity supplied to grid and the same is considered the monitoring parameter.

Monthly values of $EG_{PJ,y}$ is obtained directly from the monthly B-FROMs and energy breakup reports issued by state utility /08/. The invoicing is being done against electricity supplied by the project plant to the grid. The measurement results are cross checked with records of

invoices and it is in line with applied methodology. Thus this parameter is considered in emission reduction calculations. As verified through the calibration certificates and recent photographs of energy meters that there are one set of energy meters (main and check) installed at each feeder and are under control of state utility, sealed in presence of both the state utility official & representative of PP.

The VVB team has confirmed that monitoring methodology applies consistently the choice of the option selected for monitoring of baseline emissions. The change in monthly energy accounting & billing practice has been adequately reported under the section 3.2 of the MR. The monitoring plan provide procedures for the collection and archiving of all relevant data necessary for estimation or measuring the emission reductions within the project boundary during the crediting period. This is checked through discussion with consultant and the project participant during the telephonic interview.

The VCS MR/04/ has been reviewed to check that the procedure for data uncertainty, emergency preparedness, roles and responsibility, operational and management structure are mentioned in the MR. The monitoring plan completely describes all measures to be implemented for monitoring all parameters required. The monitoring plan described the positioning of the equipment. The information relating to the project implementation, provided in the Monitoring Report /04/ is consistent with that stated in the registered PD /01/, with the specific deviation properly documented under the MR.

The data and variables provided in the monitoring report are the same as stated in the registered PD/01/. Total emission reductions achieved under this monitoring period 01-January-2021 to 30-June-2021 (including both dates) is 48,803tCO₂e.

Assessment team concludes the following:

- a) There is no material discrepancies between project implementation and the project description provided in the registered PD/01/.
- b) The monitoring plan is implemented completely and monitoring system (i.e., process and schedule for obtaining, recording, compiling and analysing the monitored data and parameters) is appropriate. The change in monthly energy accounting & billing practice is acceptable as such change is not under the purview and control of PP. Additionally, such change does not have any material impact on the project and level of assurance is reliable based on supporting documents.
- c) Thus, there are no material discrepancies between the actual monitoring system, and the monitoring plan set out in the project description and the applied methodology/09/.
- d) The GHG emission reductions or removals generated by the project have not included in an emissions trading program or any other mechanism that includes GHG allowance trading/18/.
- e) The project has not received or sought any other form of environmental credit, or has become eligible to do so since validation or previous verification/14/.

f) The project is registered under VCS program

In view of the information's as verified above the assessment team is able to conclude that the project has been implemented as described in the project description.

4.2 Safeguards

4.2.1 No Net Harm

Being renewable Solar PV power generation project there is no negative environmental and socio-economic impacts; in fact project activity contributes positively by providing environment friendly power generation leading to sustainable development of the region. Also, the employment generation is a direct supporting uplifting the socio-economic status of the region.

These information related to social and sustainable development have been verified from the supporting documents/19,20/ submitted by PP.

Additionally, 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 (29/02/2016), 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 (as described under the EIA section of the registered PD) Environmental and Social Impact Assessment is not required for Solar Projects.

4.2.2 Local Stakeholder Consultation

No comment received during ongoing communication with local stakeholders. VVB team has verified that there is a Grievance Register to record any feedback or comment from any stakeholders. The grievance mechanism is well communicated to the stakeholders and it's accessible at project site at any point of time.

Further, the VVB team has verified that the Local Stakeholder Consultation Process was already conducted in-line with requirement during the project registration with VCS.

4.3 AFOLU-Specific Safeguards

Not applicable.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

The project monitoring has been carried in accordance with the registered VCS PD/01/ and the monitoring report/04/. The monitoring plan laid in the registered PD/01/ is being followed at the site/18/. The assessment team has verified the information flow (from data generation, aggregation, to recording, calculation and reporting for these parameters including the values) in the MR/04/.

The emission reductions are purely based on the net electricity generated and exported from plant to grid. PP has provided all the sufficient data for current monitoring period. The values of the parameter $EG_{PJ,y}$ used in deriving the GHG emission reduction could be very well correlated between the data sets and ER spreadsheet/05/ provided by PP. The Net electricity supplied to the grid by the project activity has been reported in B-Forms, calculated by authority. The monthly net energy units are used for monthly billing purposes.

The VVB has verified as follows:

The value of the net electricity generation supplied to the grid is directly sourced from the monthly JMR/ Certificate for Share of Electricity Generation issued by state Utilities. The electricity generation supplied by the project activity is measured by dedicated SEB bidirectional tri-vector main and check meter installed at substation (metering point). The details of electricity meters are provided in Appendix 5 of this report. Monthly meter readings are taken by representatives of SEB official and representatives of PP. The net electricity supplied to grid is calculated as the difference of the measured values of export and import of electricity.

Reported values of this parameter have been verified with monthly joint metering report. Value of this parameter for the current monitoring period is verified as 49,916MWh.

The verification team has checked the entire monthly "JMRs/Certificate for Share of Electricity Generation" the net electricity generation supplied to the grid and cross checked the invoices raised by the PP to the state Utilities. All relevant monitoring parameters have been verified

with regard to the appropriateness of the applied measurement/determination method, the correctness of the values applied for ER calculation, the accuracy, and applied QA/QC measures. Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors.

$$EG_{PJ,y} = EG_{Export} - EG_{Import}$$

$$BE_y = 49,916 \text{ MWh} \times 0.9777 \text{ tCO}_2\text{e/MWh}$$

$$= 48,803 \text{ tCO}_2\text{e (round down values)}$$

However, this calculation is done by State DISCOM and monthly billing is executed by PP as per the provision of state DISCOM. VVB has verified that in the monthly invoices (raised against the monthly B-forms), the Net Energy is the difference of Export value of the Main Meter of Import value of the main meter. Therefore PP has considered the same calculation practice in the ER calculation. This is a conservative approach as compared to direct "Export - Import" value. Hence, VVB has accepted the same, which is consistent with the billing practice.

Verification team has verified the monthly values of parameter ($EG_{PJ,y}$) as reported in the ER sheet with the source document (B-Forms), w.r.t. the above prescribed practices; and no discrepancy is observed, hence it can be confirmed that no manual transposition errors between data sets have been occurred. The verification of each monitoring parameter has been discussed later in section 4.5.

The calculation method and formulae used in calculating baseline emission is in compliance to the methodology used i.e. ACM0002 Version 17/09/. Since project activity is a solar power project, leakage emission and project emission has been considered as zero.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Monitoring plan, has been verified to confirm that the actual monitoring complies with the monitoring plan, monitoring data has been thoroughly assessed and that the calibration requirements are met.

Parameter	Quantity of net electricity generation supplied by the project (Solar) plant/unit to the grid in year y ($EG_{PJ,y}$ in MWh/y)	
Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	The parameter is continuously monitored, hourly measured and monthly recorded.
	Is measuring and reporting frequency in accordance with the	Yes. The reporting frequency is in line with the monitoring plan

	monitoring plan and monitoring methodology? (Yes / No)	as outlined in the registered PD/01/ and monitoring methodology/11/.
	Monitoring equipment	Bidirectional electronic meters of accuracy class 0.2s are used.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	The accuracy of the monitoring equipment used to measure the values is 0.2s, which is as per the registered PD/01/ which is as per the norm defined in the PPA/15/.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Yes. The accuracy of monitoring equipment is valid for the entire range.
	Calibration frequency /interval:	Calibration frequency of the meters is once in 5 years.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/. VVB has verified that there was change of energy meters during the current monitoring period. The information was reported in the MR, further verified against the meter replacement reports.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Yes the calibration is conducted by SEB or directly under the provision of authorities. The calibration is conducted through NABL Accredited agencies under the direct control of the authority /06/.
	Is(are) calibration(s) valid for the whole reporting period?	Yes, the calibrations of meters are valid for the whole monitoring period.

	How were the values in the monitoring report verified?	Monthly value of the parameters for entire monitoring period is reported in the monitoring report and ER calculation sheet. The monthly values were verified from the B-Forms issued by state utility and monthly REA statements released by SRPC and corresponding invoices; and the same is found to be consistent. Value of this parameter for the current monitoring period was verified as 49,916 MWh.
	If applicable, has the reported data been cross-checked with other available data?	The monthly reported values were further cross checked with the monthly invoices raised by the PP /07/ to state utility and found to be consistent.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the adequate QA/QC procedures were implemented by all the stakeholders, namely, the Grid Authority, the PP. The data transfer process for the said parameter is as follows: The Joint meter reading at all the metering points at DISCOM substation is taken by the representatives of SEB in the presence of PP officials, in the form of B-Forms. Whereas, monthly statements are available. Based on the data recorded in the B-Forms respectively, using the apportioning procedure and energy breakup sheets for each project developer is prepared.

	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	No such issues. Only deviation is applicable related to energy accounting practice in B-Forms and in the newly introduced monthly energy statements which are controlled and governed by state utility, not at all under the control of PP. Also, verification team confirms that such change in accounting practice does not lead to any additional requirement of monitoring by PP, instead the new accounting practice directly produces and certifies Net Energy units for each month by the State utility, which is reliable and credible data. Hence, acceptable. Nevertheless, PP has reported this change in accounting practice transparently in the MR, further reviewed and accepted by DOE.	
Findings	CAR#3 & CAR#4 were raised and resolved		
Conclusion	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The change in monthly energy accounting and billing practice has been introduced by state authority which is not under the purview and control of PP or any project developer. However, such changes do not have any material impact on the project and results of ER. The information are found to be properly reported under the monitoring report with proper description and justification of deviation etc. Thus, VVB concluded that the monitoring results were recorded consistently as per the approved frequency in the monitoring plan, reporting is adequate and reliable.		

Parameters fixed ex ante:

EF_{grid, OM, y}; tCO₂e/MWh: it is the operating margin emission factor of Indian grid fixed at the time of project registration the mentioned value of 0.9941tCO₂e/MWh is consistent with the registered PD/01/.

EF_{grid, BM, y}; tCO₂e/MWh: it is build margin emission factor of Indian grid fixed at the time of project registration the mentioned value of 0.9285tCO₂e/MWh is consistent with the registered PD/01/.

EF_{grid, CM, y}; tCO₂e/MWh: it is the combined margin emission factor of Indian grid fixed at the time of project registration the mentioned value of 0.9777 tCO₂e/MWh is consistent with the registered PD/01/.

Calibration of meters:

During the verification assessment of the project activity, accuracy of all the metering have been checked and found appropriate. The installation and working conditions of the meters checked through latest photographs, calibration certificates and were found to be satisfactory. Details of meters are provided in below table:

40 MW Project Activity by Giriraj Enterprises:

Meter Type	Meter Serial Number	Make	Accuracy Class	Calibration Date	Validity
Main Meter	17074037	L & T	0.2s	10-10-2018	09-10-2023
Check Meter	17074077	L & T	0.2s	10-10-2018	09-10-2023

16.25 MW Project Activity by D J Malpani:

Meter Type	Meter Serial Number at plant site	Make	Accuracy Class	Calibration Date	Validity
Main Meter	16351134	Elster	0.2s	11-06-2020	10-06-2025
Check Meter	16538757	Elster	0.2s	11-06-2020	10-06-2025
Standby Meter	02811297	Elster	0.2s	10-09-2020	09-09-2025

Meters used to measure the parameters are of accuracy class 0.2s, as verified through calibration certificates/06/ and the photographs indicating the accuracy, make etc. The CEA Notification No. 502/70/CEA/DP&D dated 17/03/2006 and its amendments Notified on 26/06/2010 No. 502/6/2009/DP&D/D-I /15/ which is considered as national standard, mentions that for voltage of 650 V up to 33 KV, 0.5s accuracy class or above is recommended. Also, it notifies that all interface meters shall be tested at least once in five years.

Hence, the current applicable calibration validity, accuracy classes of 0.2s etc. for the energy meters installed at the project activity site are found to be appropriate.

No delayed calibrations were observed in the project activity for this monitoring period. All the meters are of same accuracy class i.e. 0.2s as per the requirement of the registered PD. Interviews during remote audit with O&M personnel also confirms the same.

The calculation of net electricity supplied to grid is under purview of state electricity board and PP does not have control on it. Calibration details of the monitoring meters checked with calibration certificates submitted by PP and found that calibration frequency of 5 years is complied. Thus, no delayed calibration is observed and thus the same is found appropriate.

The break down log is checked and there is no major breakdown during the monitoring period. No unforced error observed. No sampling procedure applied for monitoring of the data parameter and entire documents were checked by the assessment team to arrive at positive verification conclusions. The monitoring plan is followed at the project site. The monitoring meters were calibrated in line with the registered monitoring plan and there was no delay in calibration observed. Thus, assessment team concluded that the evidences are sufficient in quantity, and appropriate for the quality, to determine the GHG reductions and removals.

In view of the above discussion the assessment team able to confirm that evidence used to determine the GHG reductions and removals are sufficient and appropriate with respect to quality and quantity.

The verification team confirms that appropriate methods and formulae for calculating baseline emissions have been followed. The assumptions, emission factors and default values that were applied in the calculations are justified. The actual emission reduction achieved during the current monitoring period are 6% greater than the estimated amount of emission reductions at the time of validation, this is because of higher generation achieved due to PLF which is not under control of PP, during the monitoring period.

It is to be noted that PLF is completely governed by the availability of solar radiation, which is natural phenomenon and same is beyond the control of PP, hence the assessment team has concluded the decrease in emission reduction of the project activity is justified and acceptable.

All the data were made available and have monitored as per required monitoring frequency. The means of verification for the values of parameters, used for baseline emission calculation, is described above.

4.6 Non-Permanence Risk Analysis

Not applicable for the project activity as this section is not applicable for non-AFOLU projects.

5 VERIFICATION CONCLUSION

LGAI Technological Center, S.A. (also referred to as Applus+ Certification), contracted by DJ Malpani has performed the independent verification of the emission reductions for the VCS project activity (VCS ID- 1670) “Bundled Solar Power Project by D.J. Malpani and Giriraj Enterprises” in India for the monitoring period 01/01/2021 – 31/06/2021 as reported in the final Monitoring Report Version 02 dated 12/08/2021 and final ER Sheet version 01, dated 12/08/2021. DJ Malpani is responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project activity.

It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity

Applus+ Certification commenced the verification on the basis of the baseline and monitoring methodology ACM0002 Version 17, the monitoring plan contained in the registered VCS PD Version 2, dated 27/03/2016 under VCS version 3.0 (template ver 3), Monitoring Report Version 01 dated 12/08/2021 (under VCS version 4.0) as per the process described under Section 2 of this report.

Applus+ Certification verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Applus+ Certification planned and performed the verification by obtaining evidences and other information based on remote assessment, interviews, desk review and explanations that Applus+ Certification considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated, accurate and verifiable.

In our opinion, the GHG emissions reductions reported for the project activity for the period 01/01/2021 – 31/06/2021 are fairly stated in the Monitoring Report Version 01 dated 12/08/2021, corresponding to the ER calculation sheet, version 01 dated 12/08/2021. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology ACM0002 Version 17, and the VCS standard 4.1. Thus, a total net Emission Reductions verified and certified under this report is 48,803 tCO₂e, corresponds to the monitoring period “01/01/2021 – 31/06/2021” (both dates included).

Summary:

Verification period: From 01/01/2021 – 30/06/2021 (including both dates)

Verified GHG emission reductions and removals in the above verification period:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01-January 2021-30 June-2021	48,803	0	0	48,803
Total	48,803	0	0	48,803

APPENDIX 1: DOCUMENT REFERENCES

S.No	Title of Document	Version	Date
1.	Registered VCS PD(VCS version 03)	2	27/03/2016
2.	VCS Validation Report, prepared by Carbon Check (Pty) Ltd	1.0	30/03/2017
3.	VCS Monitoring Report	01	12/08/2021
4.	VCS Monitoring Report (Final)	01	12/08/2021
5.	ER spread sheet (corresponding to the final monitoring report)	01	12/08/2021
6	Certificates of Calibration for all the meters belong to project activity. Meter change/replacement report applicable to the project activity.	Covering the entire period 01/01/2021 to 31/06/2021	-
7.	Invoice issued by PP to state DISCOM	for the period 01/01/2021 to 31/06/2021	-
8.	Monthly B-Form issued by SEB for the current verification period.	Applicable for the period 01/01/2021 to 31/06/2021	-
9.	"Grid-connected electricity generation from", ACM0002,	17	-
10.	CEA Database	version 11	-
11.	Commissioning certificates for all the Solar Plant of the project activity issued by state electricity authority	-	-
12.	Power Purchase Agreements signed between Project Proponent and state authority	-	-
13.	VCS webpage for the project, VCS ID 1670; https://registry.terra.org/app/projectDetail/VCS/1670	-	Last accessed on 16/09/2021
14.	Letter of declaration dated from PP regarding not having created or sought any other form of environmental credit for the same period	-	Dated 02/09/2021
15.	Central Electricity Authority (Installation and Operation of Meters) Regulations Notified on 17/03/2006 No. 502/70/CEA/DP&D Amendments Notified on 26/06/2010 No. 502/6/2009/DP&D/D-I	-	-
16.	VCS Standard	Version 4.1	Issued:19/09/2019 Updated: 22-04-2021
17.	VCS Program Guide	Version 4.0	19/09/2019
18.	Latest photographs of SCADA system, Solar Plant, transformers, grievance register and energy meters installed at site	-	-
19	Employment details, attendance sheets etc.	-	-
20	Documentary evidence related to Social & Sustainable Development activities conducted by PP in and around the project region.	-	-
21	Proof of notification communication by SRPC related to change in	-	-

S.No	Title of Document	Version	Date
	monthly energy accounting via REA		

APPENDIX 2: COMPETENCY STATEMENT

According to the sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of Applus+ Certification.

The composition of audit team shall be approved by the Applus+ Certification ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT).
- Technical Expert (TE).
- Technical Reviewer (TR).

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team.

Name	Qualification	Coverage of scope	Coverage of technical Area	Financial aspect	Host country Experience	Attendance to the Assessment (remote)
Vivek Kumar Ahirwar	Lead Auditor (LA) Technical Expert (TE)	Yes (1)	Yes (1.2)	N/A	Yes	Yes
Simon Shen	Technical Reviewer (TR)	Yes (1)	Yes (1.2)	N/A	N/A	N/A

The curricula vitae of the DOE's team members are provided below:

Vivek Kumar Ahirwar is a BEE-Certified Energy Auditor by Govt of India with over 12 years of relevant experience in energy efficiency, energy audit and energy conservation in energy intensive industries, designated consumers and commercial buildings, implementation of energy conservation building codes, research, process and green building projects. He is a certified lead auditor for ISO 14001 EMS and 14064. He has experience under various categories of projects stating from renewable to waste to supercritical projects and WCD. He has successfully audited more than 400 GHG (CDM/VCS/GS) projects in different countries around the world.

He has done Master in Technology (Energy Management) from a premier institute, School of Energy & Environmental Studies, DAVV, Indore (M.P.), India and Bachelor of Engineering (Mechanical Engineering) from Govt. Engineering college, Rewa, RGPV, India.

Mr. Vivek K. Ahirwar is based in Indore, India.

Mr. Vivek K. Ahirwar may participate in the Audit Team as Lead Auditor and Technical Expert.

Simon Shen (Master's Degree in Thermal Energy Engineering, Bachelor's Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review.

He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of experience working as GHG Auditor and ISO 9001/14001 in TUV SUD before he joined Applus+ for 3.5 years.

Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager.

APPENDIX 3: ABBREVIATIONS

Abbreviations	Full texts
ABT	Availability Based Tariff
BEF	Baseline Emission Factor
BM	Build Margin
CAR	Corrective Action Request
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CL	Clarification Request
CMS	Central Monitoring System
CMP	Conference of Parties Serving as Meeting of Parties
CO ₂	Carbon dioxide
DISCOM	Distribution Company
EB	Executive Board
EPC	Engineering, Procurement and Construction
FAR	Forward Action Request
GHG	Green House Gas
kW	Kilowatt
kWh	Kilowatt hour
MFR	Multi-Function Relay
MR	Monitoring Report
MW	Megawatt
MWh	Megawatt-hour
O&M	Operation and Maintenance
PD	Project Description
PGCIL	Power Grid Corporation of India Ltd.
PLF	Plant Load Factor
PP	Project Proponent
PPA	Power Purchase Agreement
QA/QC	Quality Assurance and Quality Control
TOD	Time of the Day
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Voluntary Carbon Standard
VCSA	Voluntary Carbon Standard Association
VCS PD	VCS Project Description
VCUs	Voluntary Carbon Units

APPENDIX 4: FINDINGS OVERVIEW

Findings Overview Summary

Type	CAR	CL	FAR
Total Number raised	04	01	00

Table 1: Remaining FAR from validation and/or previous verification

Table 1: Remaining FAR from validation and/or previous verification				
FAR ID	N/A	Section no.	N/A	Date :N/A
Description of FAR				
N/A				
Project participant response				Date :
N/A				
Documentation provided by project participant				
N/A				
DOE assessment				Date:
N/A				

Table 2. CL from this verification

CL ID	01	Section no.	MR	Date : 01/09/2021
Description of CL				
PP section 1.3 of the MR, PP has not provided the Telephone no and email id. Also, repeated the table for same PP in the section 1.3 of the MR.				
Project participant response				Date : 02/09/2021
The telephone number and the email id of the PP are now provided. The repeated table is for another PP which is M/s. Giriraj Enterprises. The name of M/s. Giriraj Enterprises is now mentioned in the second table of section 1.3.				
Documentation provided by project participant				
Updated MR.				
DOE assessment				Date: 08/09/2021
PP has updated the required changes in MR. Hence CL#1 is closed				

Table 3. CAR from this verification

CAR ID	01	Section no.	Page 2 of the MR	Date 01/09/2021
Description of CAR				
On page no 2 of the MR, Contents is not correct and as per the template of the VCS MR. PP is requested to rectify the same.				
Project participant response				Date : 02/09/2021
The Contents on page no 2 of MR is now rectified and updated as per the template of the VCS MR.				
Documentation provided by project participant				
Updated and rectified MR.				
DOE assessment				Date: 08/09/2021
PP has updated the required changes on page no 2 in MR. Hence CAR#1 is closed				

CAR ID	02	Section no.	1.10& 2.2	Date :01/09/2021
Description of CAR				
1. PP is requested to submit the deceleration letter to avoid the double counting.				
2. Grievances/ LSC register are not submitted to auditor for assessment.				
Project participant response				Date : 02/09/2021
1. The declaration letter to avoid the double counting is now provided by the PP				
2. Grievances / LSC register is now submitted to auditor for assessment				
Documentation provided by project participant				
1. The declaration letter to avoid double counting				
2. Grievances/LSC register				
DOE assessment				Date: 08/09/2021
PP has provided the required document as below:				
1. declaration letter dated 02/09/2021				
2. Grievances/LSC register for the monitoring period.				
Hence CAR#2 is closed				

CAR ID	03	Section no.	4.2	Date	: 01/09/2021
Description of CAR					

The details of monitoring meters and its calibration are provided in the MR. Moreover, Calibration certificates for the complete monitoring period are not provided. However, it is not clear that the meter has not changed in this MP or not and also details of the meter is not provided in MR in section 4.2. Corrective action is raised for the same.	
Project participant response	Date : 02/09/2021
The details of meter with their serial number are now provided in MR in section 4.2. The calibration certificates of the complete monitoring is provided now. As the calibration frequency of the meter is once in five year, the calibration reports provided are valid during the current monitoring period.	
Documentation provided by project participant	
1. Updated MR 2. Calibration certificates 3. Meter photos 4. Meter change details of Virudhunagar	
DOE assessment	Date: 08/09/2021
PP has updated the required changes in section 4.2 of updated MR. Hence CAR#3 is closed	

CAR ID	04	Section no.	4.2	Date :01/09/2021
Description of CAR				
Generation has been increased from the estimated values. PP is requested to justify how the project IRR is not effecting. Corrective action is raised for the same.				
Project participant response				Date :02/09/2021
As per the registered PDD, the sensitivity analysis is done for generation i.e. PLF on 10% and breaching value for the IRR to cross the benchmark for Giriraj Enterprises is 23.33% and for D.J. Malpani 28.3%. Now since the actual value is less than 10% (sensitivity range of the registered PDD) of the estimated i.e. 6%, PP conclude that with increase in actual generation Project is still additional and there is no impact on the applicability of the methodology and therefore Project remains additional.				
Documentation provided by project participant				
N/A				
DOE assessment				Date: 08/09/2021
PP has provided the justification and same has been checked with the registered/Approved PDD and same found in line with the requirement. Hence CAR#4 is closed				