




Verification and certification report form for CDM project activities

(Version 01.0)

Complete this form in accordance with the "Attachment: Instructions for filling out the verification and certification report form for CDM project activities" at the end of this form.

VERIFICATION AND CERTIFICATION REPORT

Title of the project activity	6 MW Solar Power Project by Arhyama Solar Power
Reference number of the project activity	10122
Version number of the verification and certification report	1.1 Aa
Completion date of the verification and certification report	18/10/2017
Monitoring period number and duration of this monitoring period	First monitoring period, 13/02/2015 to 17/02/2017 (Including first and last day)
Version number of monitoring report to which this report applies	Version 2.0 of 21/08/2017
Crediting period of the project activity corresponding to this monitoring period	Renewable crediting period (7 years) Length from 13/02/2015 to 12/02/2022
Project participant(s)	Arhyama Solar Power Private Limited
Host Party	India
Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)	01: Energy industries (renewable/ non-renewable sources) Methodology: AMS-I.D "Grid connected renewable electricity generation" (Version 17)
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the registered PDD	19,454 tonnes of CO ₂ e
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	17,390 tonnes of CO ₂ e
Name of DOE	RINA Services S.p.A. (RINA)
Name, position and signature of the approver of the verification and certification report	Laura SEVERINO Unit Manager Sustainability & Climate Change 

SECTION A. Executive summary**>> Purpose and general description and location:**

The purpose of the project is to generate electricity from renewable solar energy source and export to grid; thereby replacing equivalent amount of grid electricity which is dominated by fossil fuel fired power plants. The project activity involves installations and operation of 6.00 MW solar photovoltaic technology based power plant at Nalgonda district, state of Telangana in India.

Verification scope:

The objective of the verification is to have an independent review ex post determination by a Designated Operational Entity (DOE) of the monitored reductions in GHG emissions that have occurred as a result of the registered CDM project activity during a defined monitoring period. Certification is the written assurance by the DOE that, during a specific time period, a proposed CDM project activity achieved the reductions in anthropogenic emissions by sources of GHGs as verified. The scope of the verification is to verify that:

- the actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan;
- the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement;
- the reported GHG emission data is sufficiently supported by evidence.

Verification shall ensure that reported emission reductions are complete and accurate in accordance with applicable UNFCCC criteria for CDM in order to be certified.

Verification process:

Verification is conducted using RINA procedures in line with the requirements specified in the CDM Validation and Verification Standard version 09, relevant decisions of the CDM EB and applying standard auditing techniques. RINA assesses and determines that the implementation and operation of the project activity, and steps taken to report emission reductions comply with the CDM criteria and relevant guidance provided by the Board. The verification assessment involved a document review of relevant documentation and the on-site visit. Verification is not meant to provide any consultancy towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring.

Conclusion:

Arhyama Solar Power Private Limited has commissioned RINA to carry out the verification and certification of emission reductions reported for the registered “6 MW Solar Power Project by Arhyama Solar Power” project in India, CDM Registration Reference N° 10122, for the period 13/02/2015 to 17/02/2017. The project was validated by Conestoga-Rovers & Associates (validation report no. 2_086597, issued on February, 2015) and it was registered on 13/02/2015 under the CDM registration reference N° 10122. The GHG emission reductions were calculated on the basis of the approved methodology AMS-I.D “Grid connected renewable electricity generation”, Version 17 of 03/06/2011 and the monitoring plan included in the registered Project Design Document, version 05.0 of 10/02/2015. In our opinion the GHG emission reductions reported for the project activity in the monitoring report version 2 of 21/08/2017 are fairly stated.

SECTION B. Verification team, technical reviewer and approver**B.1. Verification team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Team Leader	IR	Menon	Rekha	RINA India	✓			✓
2.	Verifier and Technical Expert	IR	Mathew	Vijay	RINA India	✓	✓	✓	✓

B.2. Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Liu	Huifeng	RINA China
2.	Approver	IR	Severino	Laura	Rina Central Office

SECTION C. Application of materiality**C.1. Consideration of materiality in planning the verification**

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Human error in the quantification of emissions (which may be more likely to occur if personnel are unfamiliar with, or not well trained regarding, emissions processes or data recording).	Low	Being verification, the project proponent is familiar with monitoring procedures and data reporting. The monitoring plan at site is in line with the registered PDD. Hence, the risk level is low.	During the site visit, the verification team shall interview the staffs of the CDM team and check all records to confirm whether the monitoring plan has been well implemented. The major parameters used for determining the project's baseline emissions are the measurement of electricity export (gross) and electricity import from grid according to the monitoring plan is recorded monthly. The team shall review the whole data set of the monthly report, and crosschecked against relevant invoices. The verification team shall interview the staffs of the CDM team and check the relevant records to confirm whether the data collection procedure and QA/QC
2.	Undue reliance on a poorly designed information system, which may have few effective quality controls.	Low	For the verification, the project proponent has already established a well-organized monitoring team, monitoring plan, including data collection procedure and QA/QC procedure consistent with registered monitoring plan. Log books are maintained, monitoring equipment are calibrated at defined frequency.	
3.	Manual adjustment of otherwise automatically recorded activity levels.	Low	As detailed in section E below, the data of the main monitoring parameters are	

			taken from calibrated meters (energy meter) and can be verified from totalizer values. The monitoring equipment are calibrated according to national standards and rules. Hence, the risk level is low.	procedure have been well implemented.
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C.2. Consideration of materiality in conducting the verification

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For the project activity 100% data was available for verification. The data which directly affect emission reduction calculations being gross electricity generation and electricity consumption from grid are monitored and measured by calibrated energy meters, hence 100% verifiable. No significant reporting risks to the materiality of the verification were envisaged while planning for the verification and were not identified during the verification process.

During the course of the verification, the team reviewed the whole data set of the monthly records for all parameters and cross-check against invoices. The data reported in the monitoring report are consistent with monthly records, and the emission reductions are correctly calculated.

In conclusion, the verification team confirms the data set to be free from material error.

SECTION D. Means of verification

D.1. Desk review

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The monitoring report, version 02 of 21/08/2017 and version 01 of 12/04/2017 /01/, the emission reduction calculations provided in the form of a spread sheet (Arhyama Emission Reduction Spreadsheet.xls) version 02 of 21/08/2017 and version 01 of 12/04/2017 /02/ were assessed as part of the verification. In addition the Project Design Document (PDD) /03/ in particular the baseline estimations and the monitoring plan, and the validation report by Conestoga-Rovers & Associates (validation report no. 2_086597, issued on February, 2015) /05/ for the project were reviewed. The monitoring report version 01 issued on 12/04/2017 /01/ was made publicly available on the CDM UNFCCC website on 20/04/2017. Appendix 3 lists the documentation that was reviewed during the verification.

D.2. On-site inspection

Duration of on-site inspection: 13/06/2017 to 14/06/2017				
No.	Activity performed on-site	Site location	Date	Team member
1.	During the on-site assessment of the project RINA assessed the implementation and operation of the proposed project activity, the monitoring equipment and systems, reviewed the information flows for generating, aggregating and reporting the monitoring parameters, interviewed key personnel of the plant to confirm the operational and data collection procedures, cross-checked between information provided in the monitoring report and data plant, checked the monitoring equipment including calibration performance, reviewed calculations and assumptions made in determining the GHG data and emission reductions, checked the quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters. There were no hindrances or barriers that were faced by the verification team while carrying out the site visits all equipment and processes of the project activity were accessible.	Kolanpaka Village, Aleir Mandal, Nalgonda District, of Telangana State, India	13/06/2017 and 14/06/2017	Vijay Mathew

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Nayakallu	Anil Kumar	CDM Consultant	13/06/2017 and 14/06/2017	Project implementation and operation.	Vijay Mathew
2.	Babu	Gandhi	Site Manager	13/06/2017 and 14/06/2017	Management of the electricity meter and data collection.	
3.	S.	Ganesh	O& M In-charge	13/06/2017 and 14/06/2017	Monitoring plan and monitoring parameters. Management of the meter devices & calibration. Quality Control, Calibration records etc. Preparation of the Monitoring Report (MR), calculation of the ERs.	

D.4. Sampling approach

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Not Applicable.

D.5. Clarification requests, corrective action requests and forward action requests raised

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	-	5	-
Compliance of the project implementation with the registered PDD	-	-	-
Post-registration changes	-	-	-
Compliance of the monitoring plan with the monitoring methodology including applicable tool and standardized baseline	-	-	-
Compliance of monitoring activities with the registered monitoring plan	-	-	-
Compliance with the calibration frequency requirements for measuring instruments	-	-	-
Assessment of data and calculation of emission reductions or net removals	1	1	-
Others (please specify)	-	-	-
Total	1	6	-

SECTION E. Verification findings**E.1. Compliance of the monitoring report with the monitoring report form**

Means of verification	Comparing the monitoring report /01/ with the monitoring report form provided by CDM EB listed in UNFCCC website /10/.
Findings	CAR 02, CAR 03, CAR 04 and CAR 05 were raised against the incompleteness of the sections A.1, A.2, A.5 and D.2 respectively. The PP revised the MR and incorporated the necessary changes. Hence CAR 02, CAR 03, CAR 04 and CAR 05 are closed. CAR 01 is raised against to correct the value of GHG emission estimated as per PDD for this monitoring period. PP has corrected the same found acceptable. Hence CAR 01 is closed. Team found that now the MR is complete and in line with the requirements to complete the MR form version 05.1.
Conclusion	The verification team confirms that the monitoring report used by the PP is compliance with the MR form version 05.1 available at UNFCCC website and is in accordance with the applicable instruction.

E.2. Remaining forward action requests from validation and/or previous verification

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Based on the review of validation report /04/ no FAR was raised during the validation and there were no FAR raised during the previous verification for this project activity, since this is the first verification.

E.3. Compliance of the project implementation with the registered project design document

Means of verification	<p>Actual implementation of the registered project activity:</p> <p>RINA has performed a site visit to verify the real implementation of the project against the description in its registered CDM PDD /03/ and found that the project implementation is in accordance with the registered PDD /03/. The project activity involves installations and operation of 6.00 MW solar photovoltaic technology (poly crystalline based solar PV modules) based power plant at Nalgonda, Telangana. The generated electricity is evacuated to southern grid sub-stations in the state of Telangana. The project was commissioned on 23/12/2013 as confirmed from solar commissioning certificate /11/. The same was also cross checked during the site visit and confirmed to be in order.</p> <p>The quantum of energy exported to the grid and transmission losses are confirmed from the Energy Settlement Reports/ Joint Meter Readings issued to the PP /06/; this is in line with the registered PDD /03/. Wheeling charges are applied as per Telangana State Electricity Regulatory Commission and is in line with the PDD /03/. The same is also cross checked with the Invoices submitted to the buyer with respect to sales of electricity from 6MW Solar Power Project by Arhyama Solar Power for the period from 17/02/2015 to 17/02/2017 /12/.</p> <p>During the site visit, no changes have been observed or identified which may impact</p>
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	<p>the additionality as there was no change in the installed capacity, no addition of component nor extension of technology, no addition nor removal of project sites; no change has been observed or identified that may impact the scale of the project activity or applicability of baseline and monitoring methodology AMS-I.D Version 17 of 03/06/2011/05/. The net electricity generation by the project plant from 17/02/2015 to 17/02/2017, was taken into consideration.</p> <p>It has been observed that the monitoring period is from 13/02/2015 to 17/02/2017. However, the JMR data submitted is only from 17/02/2015 to 17/02/2017. This is because the registration date of the CDM project activity with CDM EB is on 13/02/2015. Hence, the monitoring period starts from 13/02/2015 to 17/02/2017. However, the billing cycle starts from 17/02/2017. Therefore, PP has only considered the emission reduction from 17/02/2015 to 17/02/2017, for the ease of calculation. This is a conservative approach, since PP is not considering the emission reduction from 13/02/2015 to 16/02/2015.</p>
Findings	<p>CL 01 was raised to provide clarity on monitoring period with respect to JMR data and MR. That is, monitoring period is from 13/02/2015 to 17/02/2017. However, the JMR data submitted is from 17/02/2015 to 17/02/2017.</p> <p>PP has provided justification that; it happens because the registration date of the CDM project activity with CDM EB is on 13/02/2015. Hence, the monitoring period starts from 13/02/2015 to 17/02/2017. However, the billing cycle starts from 17/02/2017. Therefore, PP has only considered the emission reduction from 17/02/2015 to 17/02/2017, for the ease of calculation. This is a conservative approach, since PP is not considering the emission reduction from 13/02/2015 to 16/02/2015. Hence, CL 01 is closed.</p>
Conclusion	<p>RINA is able to confirm that the implementation and operation of the project during this 1st monitoring period is consistent with the registered PDD; the information provided in the MR is also in accordance with the description of the registered PDD. RINA through the on-site inspection assessed that all physical features (technology, project equipment, monitoring and metering equipment) of the project activity are in place and the project participants have operated the project activity as per the registered PDD.</p>

E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline

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N/A

E.4.2. Corrections

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N/A

E.4.3. Changes to the start date of the crediting period

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NA

E.4.4. Inclusion of a monitoring plan to a registered project activity

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N/A

E.4.5. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

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N/A

E.4.6. Changes to the project design of a registered project activity

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N/A

E.4.7. Types of changes specific to afforestation and reforestation project activities

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NA

E.5. Compliance of monitoring plan with the monitoring methodology including applicable tool and standardized baseline

Means of verification	The monitoring plan requires monitoring net electricity export to grid from the project activity. This is monitored continuously using calibrated energy meter installed at the grid interconnection point and also at the facility. The registered monitoring plan details the parameters to be monitored and calculation to be followed for arriving at the net electricity export to grid. This is as per the applied methodology AMS-I.D, Version 17 and applicable tool 'Tool to calculate the emission factor for an electricity system'. Therefore, during this monitoring period, the validated and registered monitoring plan was found to be in accordance with the applied methodology and applicable tool.
Findings	N/A
Conclusion	RINA confirms that the approved monitoring plan is in accordance with the approved methodology and applicable methodological tools.

E.6. Compliance of monitoring activities with the registered monitoring plan

The monitoring has been carried out in accordance with the approved monitoring plan. The following tables describe for each parameter which is to be measured according to the monitoring plan and how RINA has verified that the actual monitoring complies with the monitoring plan and that data have been assessed to correctly support the emission reductions being claimed.

E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	DATA/PARAMETER Unit	Source of data	Reported value for the project period	Assessment/Observation
	EF _{OM,y} Operating Margin CO ₂ Emission Factor of Southern Regional Electricity Grid in year y	As per registered PDD conforming to CO ₂ Baseline Database for the Indian Power Sector, CEA /03/, /07/	0.9675 tCO ₂ /MWh	The value is ex-ante fixed for this crediting period duration of 07 years (renewable crediting period) as per the registered PDD /03/, which has been already approved by EB /09/.
	EF _{BM,y} Build Margin CO ₂ Emission Factor of Southern Regional Electricity Grid in year y	As per registered PDD conforming to CO ₂ Baseline Database for the Indian Power Sector, CEA /03/, /07/	0.9509 tCO ₂ /MWh	The value is ex-ante fixed for this crediting period duration of 07 years (renewable crediting period) as per the registered PDD /03/, which has been already approved by EB /09/.

	EF_y Combined Margin CO_2 Emission Factor of Southern Regional Electricity Grid in year y	As per registered PDD conforming to CO_2 Baseline Database for the Indian Power Sector, CEA /03/, /07/	0.9633 tCO ₂ /MWh	The value is ex-ante fixed for this crediting period duration of 07 years (renewable crediting period) as per the registered PDD /03/, which has been already approved by EB /09/.
Findings	N/A			
Conclusion	RINA confirms that the parameters listed above are fixed ex ante and used for baseline and project emissions calculation in accordance with the applied methodology and methodological tool and that they are the same used in the PDD and Emission reduction spread sheet approved by validator; and the same has been already approved by EB.			

E.6.2. Data and parameters monitored

Means of verification	Data/Parameter		Assessment
	Data Unit		EG _{facility,y}
	Description		Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)
	Source of data to be used		Electricity export to the grid and the electricity import and transmission losses are mentioned in the joint meter reading records called Energy Settlement Reports /06/. The same is verified from the Energy Settlement Reports /06/; and further, cross verified by invoices issued to the buyer (Dr. Reddy's Laboratory Ltd) /12/.
	Value of monitored parameter for the monitoring period		18,054 MWh
	Monitoring equipment		Bi-directional Energy Meters
	Accuracy of the monitoring equipment		0.2s of accuracy class
	Measuring/Reading/Recording frequency		Measured continuously and recorded monthly.
	Calculation method (if applicable)		<p>Electricity exported/imported to the grid is in kWh. However for the calculation purpose electricity exported is converted into MWh.</p> <p>The net electricity supplied can be checked from the Generator Settlement Abstract of the Energy Settlement Report which is issued by TSTRANSCO (Transmission Corporation of Telangana Limited). The value can be calculated as below:</p> $EG_{facility,y} = EG_{generated,y} - \text{Wheeling Loss} * EG_{generated,y}$
	Data/Parameter		Assessment
	Data Unit		Wheeling Loss in percentage
	Description		Charges levied for wheeling of electricity.
	Source of data to be used		As per Telangana State Electricity Regulatory Commission /18/. The same is cross verified by invoices raised to Dr. Reddy's Laboratory

		Ltd /12/.
	Value of monitored parameter for the monitoring period	Directly applied.
	Monitoring equipment	Not Applicable
	Accuracy of the monitoring equipment	Not applicable
	Measuring/Reading/Recording frequency	Monthly
	Calculation method (if applicable)	<p>TSERC Tariff Order determines the wheeling loss to be paid at different voltage levels. For the project activity, 3.99% wheeling loss is applied as the electricity is being supplied and drawn at 33kV.</p> <p>The current TSERC tariff order has currently fixed the wheeling losses at 3.99% but might change in the future.</p>
Findings	N/A	
Conclusion	<p>RINA confirms:</p> <ul style="list-style-type: none"> - that all the parameters listed in the registered monitoring plan have been completely monitored; - The responsibilities and authorities for monitoring and reporting are in accordance with those stated in the approved revised monitoring plan; - The monitoring results are consistently recorded as per the approved frequency; <p>Quality assurance and quality control procedure have been applied in accordance with the approved revised monitoring plan</p>	

E.6.3. Implementation of sampling plan

Means of verification	N/A
Findings	N/A
Conclusion	N/A

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	Data/Parameter	Assessment		
	Data Unit	EG _{facility,y} ; MWh		
	Description	Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y.		
	Monitoring equipment	Electricity Import to the grid will be recorded by bi-directional meters (main, check and stand by) connected at 33 kV level Kolanpaka substation. The details of meters are given below:		
		Meter	Make	Serial No.
		Main Meter	Elster	15688052
		Check Meter	Elster	15688084
	Stand By	Elster	15688085	
Calibration frequency/interval Is the calibration interval in line with the monitoring plan of the PDD?	All the energy meter is calibrated once in 5 years. This is in line with the registered monitoring plan and validation report /03/, /04/.			
Does the calibration cover the monitoring period? Has the calibration frequency	The monitoring period is from 13/02/2015 to 17/02/2017. All the main meters, check meters and standby meters w.r.t. project activity were			

	been respected?	calibrated /17/;												
		<table border="1"> <thead> <tr> <th>Meter</th><th>Calibration date</th><th>Calibration due date</th></tr> </thead> <tbody> <tr> <td>15688052</td><td>16/08/2013</td><td>16/08/2018</td></tr> <tr> <td>15688084</td><td>16/08/2013</td><td>16/08/2018</td></tr> <tr> <td>15688085</td><td>16/08/2013</td><td>16/08/2018</td></tr> </tbody> </table> <p>The monitoring period from 13/02/2015 to 17/02/2017; and the last calibration of meters (Main meter, check meter and standby meter) performed on the date 16/08/2013. As per the Central Electricity regulations /08/ the next calibration is due on dates 16/08/2018. Hence it is confirmed that the calibration covers this monitoring period.</p>	Meter	Calibration date	Calibration due date	15688052	16/08/2013	16/08/2018	15688084	16/08/2013	16/08/2018	15688085	16/08/2013	16/08/2018
	Meter	Calibration date	Calibration due date											
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Calibration certificates	<table border="1"> <thead> <tr> <th>Meter no.</th><th>Calibration details</th></tr> </thead> <tbody> <tr> <td>15688052</td><td>Calibration certificate by STQC (Standardisation Testing and Quality Certification) w.r.t. 6MW Solar Power Project by Arhyama Solar Power, meters dated 16/08/2013. cal. Certificate no. ETDC (Hy)/Cal 2167/13-14 /17/.</td></tr> <tr> <td>15688084</td><td>STQC (Standardisation Testing and Quality Certification) w.r.t. 6MW Solar Power Project by Arhyama Solar Power, meters dated 16/08/2013. cal. Certificate no. ETDC (Hy)/Cal 2168/13-14 /17/.</td></tr> <tr> <td>15688085</td><td>Calibration certificate by STQC (Standardisation Testing and Quality Certification) w.r.t. 6MW Solar Power Project by Arhyama Solar Power, meters dated 16/08/2013. cal. Certificate no. ETDC (Hy)/Cal 2166/13-14 /17/.</td></tr> </tbody> </table>	Meter no.	Calibration details	15688052	Calibration certificate by STQC (Standardisation Testing and Quality Certification) w.r.t. 6MW Solar Power Project by Arhyama Solar Power, meters dated 16/08/2013. cal. Certificate no. ETDC (Hy)/Cal 2167/13-14 /17/.	15688084	STQC (Standardisation Testing and Quality Certification) w.r.t. 6MW Solar Power Project by Arhyama Solar Power, meters dated 16/08/2013. cal. Certificate no. ETDC (Hy)/Cal 2168/13-14 /17/.	15688085	Calibration certificate by STQC (Standardisation Testing and Quality Certification) w.r.t. 6MW Solar Power Project by Arhyama Solar Power, meters dated 16/08/2013. cal. Certificate no. ETDC (Hy)/Cal 2166/13-14 /17/.					
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15688084	STQC (Standardisation Testing and Quality Certification) w.r.t. 6MW Solar Power Project by Arhyama Solar Power, meters dated 16/08/2013. cal. Certificate no. ETDC (Hy)/Cal 2168/13-14 /17/.													
15688085	Calibration certificate by STQC (Standardisation Testing and Quality Certification) w.r.t. 6MW Solar Power Project by Arhyama Solar Power, meters dated 16/08/2013. cal. Certificate no. ETDC (Hy)/Cal 2166/13-14 /17/.													
Does the calibration of meters have been done by an accredited person or institution?	Yes. STQC (Standardisation Testing and Quality Certification) is a Government of India Undertaking and is accredited by NABL/17/.													
Findings	N/A													
Conclusion	RINA confirms that all applicable monitoring and measuring equipment have been calibrated by accredited agencies as per defined frequency of registered monitoring plan in consistent with applied methodology and appropriately maintained. About the delay in calibration RINA confirms that the maximum permissible error has been applied in a conservative manner adjusting all the measured values taken during the period between the scheduled and the new calibration of the electricity meter. RINA also confirms the calibration covers this monitoring period.													

E.8. Assessment of data and calculation of emission reductions or net removals**E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks**

Means of verification	<p>According to the applied methodology AMS-I.D “Grid connected renewable electricity generation” version 17 /05/, and the registered PDD /03/ the Baseline emissions (BE_y) is calculated as the product between $EG_{facility,y}$ and $EF_{grid, CM,y}$.</p> $BE_y = EG_{facility,y} * EF_{grid, CM,y}$ <p>Where, BE_y = Baseline emissions in year y (tCO_2/yr)</p> <p>$EG_{facility,y}$ = is the Quantity of net electricity supplied by project activity to the grid in year y $EF_{grid, CM,y}$ = is the CO_2 emissions factor of the Southern Grid in year y & is calculated from CDM database provided by CEA.</p> <p>The electricity supplied to the grid by the project activity connected to the substation is measured by electronic trivector meters of accuracy class 0.2s. The electricity supplied will be measured continuously using Main, Check and Standby meters at the substation. Readings of Main, Check and Standby meters shall be taken on monthly basis by authorized officer(s) of TSTRANSCO in the presence of PP or representative of PP. The meter reading will be taken jointly and signed by the representatives of the TSTRANSCO and Arhyama Solar.</p> <p>The net electricity supplied can be checked from the Generator Settlement Abstract of the Energy Settlement Report which is issued by TSTRANSCO (Transmission Corporation of Telangana Limited). The value can be calculated as below:</p> $EG_{facility,y} = EG_{generated,y} - \text{Wheeling Loss} * EG_{generated,y}$ <p>Net electricity supplied to the grid value is used in calculation of emission reduction of the project activity.</p> <p>The net electricity supplied by the project activity during the current monitoring period is 18,054 MWh /01/,/02/. This is also cross checked from monthly energy settlement reports and invoices raised to state utility /06/, /12/. The resulting baseline emissions of reductions of 17,390 tCO_2e after multiplying with the grid emission factor fixed ex-ante at 0.9633 tCO_2/MWh /01/,/02/.</p>
Findings	<p>CAR 06 was raised to correct the Emission reduction calculation. PP was corrected the ER sheet and necessary changes has been incorporated in the MR. Hence CAR 06 is closed. CL 01 was raised to submit the JMR records and invoices for the period 13/02/2015 to 17/02/2017. The PP has intimated the verification team that the billing cycle starts from 17/02/2015 only; and hence, PP would like to claim the emission reductions from 17/02/2015 to 17/02/2017. Verification team found that the same is conservative and acceptable. Therefore, CL 03 is closed.</p>
Conclusion	<p>RINA confirms that baseline emissions have been appropriately calculated and are consistent with site visit observations, the applied methodology, registered PDD and the previous verification reports /01/, /02/, /03/, /05/, /06/, /09/, /12/.</p>

E.8.2. Calculation of project GHG emissions or actual net GHG removals by sinks

Means of verification	As per registered PDD and applied methodology, project emissions due to import of grid electricity is already accounted in arriving net electricity export to grid. Hence project emission is accounted to be zero.
Findings	N/A
Conclusion	N/A

E.8.3. Calculation of leakage GHG emissions

Means of verification	As per registered PDD and applied methodology, leakage emissions (LE _y) for the monitoring period are accounted as zero.
Findings	N/A
Conclusion	N/A

E.8.4. Summary of calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	<p>The emission reduction is calculated as below: $ER_y = BE_y - PE_y - LE_y$</p> <p>Where, ER_y is the total emission reductions of the project activity during the year y in tCO_{2e}; BE_y is the baseline emissions for the project activity during the year y in tCO_{2e}; PE_y is the emissions for the project activity during the year y in tCO_{2e}; LE_y is the leakage emissions for the project activity during the year y in tCO_{2e}.</p> <p>BE_y for the monitoring period is 17,390 tCO_2 as detailed in section E.8.1 above. PE_y and LE_y is zero for the monitoring period as described in section E.8.2 and E.8.3 above.</p> <p>Therefore, the emission reductions achieved for the monitoring period is 17,390 tCO_{2e}.</p>
Findings	CAR 06 was raised to correct the Emission reduction calculation. PP was corrected the ER sheet and necessary changes has been incorporated in the MR. Hence CAR 06 is closed. CL 01 was raised to submit the JMR records and invoices for the period 13/02/2015 to 17/02/2017. The PP has intimated the verification team that the billing cycle starts from 17/02/2015 only; and hence, PP would like to claim the emission reductions from 17/02/2015 to 17/02/2017. Verification team found that the same is conservative and acceptable. Therefore, CL 03 is closed.
Conclusion	<p>The data presented in the monitoring report /01/ were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. Sufficient evidence was presented and verified by RINA for the reported emission reductions as listed above.</p> <p>RINA confirms:</p> <ul style="list-style-type: none"> - All the data and parameters were monitored in accordance with the approved monitoring plan; - The data reported in the emission reductions calculation spreadsheet were cross-checked with the raw data and the values reported in the monitoring report were verified against the data presented in the spreadsheet; - The calculation of emission reductions have been carried out in accordance with the formulae and methods described in the approved revised monitoring plan, the applied methodology and methodological tool; <p>Emission factor and default values have been applied in the calculation in accordance to the registered PDD.</p>

E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Means of verification	The emission reductions from the project for the monitoring period as reported in the monitoring report revision 2 of 21/08/2017 /01/ is equivalent to 17,390 tCO_{2e} while the emission reductions estimated in the PDD /03/ for the monitoring period accounts to 19,454 tCO_{2e} .
Findings	N/A
Conclusion	The actual emission reductions are 10.6% lower than the expectations stated in the revised PDD.

E.8.6. Remarks on difference from estimated value in registered PDD

Means of verification	N/A
Findings	N/A
Conclusion	N/A

E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012	GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards
	NA	17,390 tCO ₂ e
Findings	CAR 06 was raised to correct the Emission reduction calculation. PP was corrected the ER sheet and necessary changes has been incorporated in the MR. Hence CAR 06 is closed. CL 01 was raised to submit the JMR records and invoices for the period 13/02/2015 to 17/02/2017. The PP has intimated the verification team that the billing cycle starts from 17/02/2015 only; and hence, PP would like to claim the emission reductions from 17/02/2015 to 17/02/2017. Verification team found that the same is conservative and acceptable. Therefore, CL 03 is closed.	
Conclusion	The actual monitoring period does not fall into the first commitment period. The calculation of the emission reductions has been ensured by the validation team based on the Monitoring report /01/, Emission reduction spread sheet /02/ and registered CDM project PDD /03/. The emission reductions estimation can be replicated using the data and parameter values provided in the PDD and supporting file submitted for registration. The data sources mentioned have been verified by RINA. RINA confirms that the estimates provided in the Monitoring report /01/ and Emission reduction spread sheet /02/ are reasonable and in line with the monitoring plan mentioned in the registered PDD /03/; the calculations are complete and transparent and the data accuracy has been verified.	

SECTION F. Internal quality control

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The draft final verification report before being submitted to UNFCCC for request of issuance was subjected to an independent internal technical review to confirm that all verification activities had been completed according to the pertinent RINA instructions.

The technical review was performed by a technical reviewer(s) qualified in accordance with RINA's qualification scheme for CDM validation and verification.

SECTION G. Verification opinion

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RINA Service Spa (RINA) has performed verification of the emission reductions reported for the project activity "6 MW Solar Power Project by Arhyama Solar Power" in India, CDM Registration Reference N° 10122, for the period 13/02/2015 to 17/02/2017, with regard to the relevant requirements for CDM activities.

The project participants of the "6 MW Solar Power Project by Arhyama Solar Power" project are responsible for:

- the preparation of greenhouses gas emissions data and the reported greenhouse gas emission reductions from the project on the basis set out in the monitoring plan contained in the registered project design document Version 05.0 of 10/02/2015.
- the development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of greenhouse gas emission reductions of the project

It is the responsibility of RINA to express an independent verification opinion about the project's conformity with the requirements of paragraph 62 of the CDM modalities and procedures and on the reported greenhouse gas emission reductions from the project.

Based on documented evidence and corroborated by an on-site assessment RINA can confirm that:

- the project has been implemented and operated as per the registered PDD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable CDM requirements;
- the monitoring is in place as per the applied baseline and monitoring methodology;

- the monitoring complies with the monitoring plan in the registered PDD;
- the monitoring plan in the registered PDD is as per the applied baseline and monitoring methodology.

SECTION H. Certification statement

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It is RINA's opinion that the GHG emission reduction stated in the monitoring report version 2 of 21/08/2017 for the "6 MW Solar Power Project by Arhyama Solar Power" project in India for the period 13/02/2015 to 17/02/2017 are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology AMS-I.D, version 17, 'Grid connected renewable electricity generation' of 03/06/2011 and the monitoring plan contained in the registered PDD.

Hence RINA is able to certify that the emission reductions from the project during the monitoring period 13/02/2015 to 17/02/2017 amount to 17,390 tCO_{2e}.

Appendix 1. Abbreviations

Abbreviations	Full texts
APCPDCL	Andhra Pradesh Central Power Distribution Company Limited
BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CER(s)	Certified Emission Reduction(s)
CH ₄	Methane
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CRT	Coordination and Technical Control Staff
DCI	Certification Division of RINA Services Spa
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of Approval
MoV	Means of Verification
MR	Monitoring Report
NABCB	National Accreditation Board for Certification bodies
NGO	Non-governmental Organization
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
Ref.	Document Reference
RINA	RINA Services S.p.A.
SS(s)	Sectoral Scope(s)
TA(s)	Technical Area(s)
TSERC	Telangana State Electricity Regulatory Commission
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



RINA

CERTIFICATO DI QUALIFICA QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Rekha Menon

è qualificato come¹:
is qualified as:

**CDM-TEC, -VAL, -VER, -TL
ITRP**

per le seguenti aree tecniche:
for the following technical areas:

1.2, 2.1, 13.1, 13.2, 14.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
2.1	Energy Demand	2
13.1	Solid Waste and wastewater	13
13.2	Manure	13
14.1	Afforestation and reforestation	14

in accordo alle istruzioni dell'unità Sostenibilità & Cambiamenti Climatici.
in accordance with the instructions of the Sustainability & Climate Change Unit.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	06-03-2008	-
11	31/03/2017	Update qualification as ITRP

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
DET: Determiner

CDM: Clean Development Mechanism
VCS: Verified Carbon Standard
GS: Gold Standard
SCS: SocialCarbon Standard
JI: Joint Implementation

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologia Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologia Institute, to carry out Validation and Verification of SCS Reports

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Page 1 of 1



RINA

**CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Mathew Vijay

è qualificato come¹:
is qualified as:

CDM -TEC, -VAL, -VER, -TL
ITRP

per le seguenti aree tecniche:
for the following technical areas:

1.2

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1

in accordo alle istruzioni del Settore Sostenibilità & Cambiamenti Climatici.
in accordance with the instructions of the Sustainability & Climate Change Sector.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	02/08/2012	-
4	18/04/2017	Update qualification as Verifier and ITRP

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
DET: Determiner

CDM: Clean Development Mechanism
VCS: Verified Carbon Standard
GS: Gold Standard
SCS: SocialCarbon Standard
JI: Joint Implementation

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologia Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologia Institute, to carry out Validation and Verification of SCS Reports

GHG_QUAL_CERT_EN_04_12

Page 1 of 1



RINA

**CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:

Hui Feng Liu

We declare that Mr/Mrs/Ms:

è qualificato come¹:
is qualified as:

CDM -TEC, -VAL, -VER, -TL
ITRP

per le seguenti aree tecniche:
for the following technical areas:

1.1, 1.2, 8.1, 9.2, 13.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1
8.1	Mining and mineral processes	8
9.2	Iron, steel and ferro-alloy production	9
13.1	Solid waste and wastewater	13

in accordo alle istruzioni dell'unità Sostenibilità & Cambiamenti Climatici.
in accordance with the instructions of the Sustainability & Climate Change Unit.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	10/09/2010	-
11	31/03/2017	Updating qualification as ITRP

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
DET: Determiner

CDM: Clean Development Mechanism
VCS: Verified Carbon Standard
GS: Gold Standard
SCS: SocialCarbon Standard
JI: Joint Implementation

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologia Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologia Institute, to carry out Validation and Verification of SCS Reports

GHG_QUAL_CERT_EN_04_12

Page 1 of 1

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Arhyama Solar Power Private Limited	Monitoring report for project activity “6MW Solar Power Project by Arhyama Solar Power” in India.	Version 02 of 21/08/2017 and Version 1.0 of 12/04/2017	PP
2	Arhyama Solar Power Private Limited	Emission reduction spreadsheet (ER sheet_version 1.xls)	Version 02 of 21/08/2017 and Version 1.0 of 06/05/2017	PP
3	Arhyama Solar Power Private Limited	CDM-PDD for project activity “6MW Solar Power Project by Arhyama Solar Power” in India.	Version 05.0 of 10/02/2015	PP
4	Conestoga-Rovers & Associates	CDM validation report of “6 MW Solar Power Project by Arhyama Solar Power” in India (validation report no. 2_086597, issued on February, 2015)	Version no. 02 issued on 02/2015	Others
5	CDM Executive Board	Approved methodology AMS-I.D “Grid connected renewable electricity generation”,	Version 17 of 03/06/2011	Others
6	Southern Power Distribution company of TSTRANCO	Energy Settlement Reports/ Joint Meter Readings for 6MW Solar Power Project by Arhyama Solar Power from 17/02/2015 to 17/02/2017.		Others
7	Central Electricity Authority (CEA)	CO ₂ Baseline Database for the Indian Power Sector User Guide, Version 09, January 2014.		Others
8	Central Electricity Authority (CEA)	Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 dated 17/03/2006		Others
9	CDM	6 MW Solar Power Project by Arhyama Solar Power http://cdm.unfccc.int/Projects/DB/CRA1423841654.9/view The website is in English language retrieved on 27/06/2017		Others
10	CDM Executive Board	Monitoring report form (CDM-MR-FORM) and attachment ‘instructions for filling out the monitoring report form’.	Version 05.1	Others
11	APDPDCL Nalgonda, Telangana	Solar Commissioning certificate dated 23/12/2013 Ref. No. Cr. No. CEIG/TS/HV/Nlg-115 No. 190/2013 dated 27/03/2013	27/12/2013	Others
12	Arhyama Solar Power Private Limited	Invoices submitted to the buyer (Dr. Reddy’s Laboratory Ltd.) with respect to sales of electricity from 6 MW Solar Power Project by Arhyama Solar Power for the period from 17/02/2015 to 17/02/2017.		Others
13	CDM	Clean Development Mechanism Validation and	Version 09.0	Others

	Executive Board	Verification Standard	of 20/02/2015	
14	CDM Executive Board	Clean Development Mechanism Project Standard	Version 09.0 of 20/02/2015	Others
15	CDM Executive Board	Clean Development Mechanism Project Cycle Procedure	Version 09.0 of 20/02/2015	Others
16	Arhyama Solar Power Private Limited	Power purchase agreement for the solar power executed between Arhyama Solar Power Private Limited and Dr. Reddy's Laboratory Ltd. dated 30/10/2013	30/10/2013	Others
17	STQC (Standardisation Testing and Quality Certification)	Calibration certificate no. cal. Certificate no. ETDC (Hy)/Cal 2168, 2167, 2166, 2135, 2134 and 2133. For the meters 15688052, 15688084, 15688085, dated 16/08/2013 and 16268039, 16268038 and 16268019 dated 07/08/2013.	07/08/2013 and 16/08/2013	Others
18	Telangana State Electricity Regulatory Commission	<p>Tariff order issued by Telangana State Electricity Regulatory Commission on Wheeling Tariffs for Distribution Business for 3rd Control Period.</p> <p>http://www.tserc.gov.in/file_upload/uploads/Tariff%20Orders/Current%20Year%20Orders/Distribution%20Tariff%20Order%20for%202015-16.pdf</p> <p>The website is in English language retrieved on 20/09/2017</p>		Others

Appendix 4. Clarification requests, corrective action requests and forward action requests

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

FAR ID	xx	Section no.	E.2	Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Table 2. CL from this verification

CL ID	01	Section no.	E.2	Date: 12/07/2017
Description of CL				
The monitoring period is from 13/02/2015 to 17/02/2017. However, the JMR data submitted is from 17/02/2015 to 17/02/2017. PP is requested to submit the JMR data for the period. Further, PP is requested to provide the invoice details submitted to the TSTRANCO for the monitoring period.				
Project participant response				Date: 21/08/2017
According to the Registration date of the project, the monitoring period is from 13/02/2015 to 17/02/2017. However, the billing cycle starts from 17/02/2017; therefore, PP would like to go for the monitoring period of 17/02/2015 to 17/02/2017, which is conservative also. Hence, PP request DOE to consider the same. Also PP attached JMR Data & Invoice copies for DOE's perusal as required.				
Documentation provided by project participant				
JMR copies & Invoice copies for the period of 17/02/2015 to 17/02/2017				
DOE assessment				Date: 22/08/2017
Justification provided by PP found acceptable. Further, verification team found that the same don't lead to over estimation of CERs. Choosing the period from 17/02/2015 to 17/02/2017 for CER estimation is conservative. Hence CL 01 is closed.				

Table 3. CAR from this verification

CAR ID	01	Section no.		Date: 12/07/2017
Description of CAR				
Estimated amount of GHG emission reductions or net GHG removals by sinks for this monitoring period (13/02/2015 to 17/02/2017) in the registered PDD mentioned in the first page of MR is not correct.				
Project participant response				Date: 21/08/2017
The GHG emission reduction or net GHG removals by sinks for this monitoring period (13/02/2015 to 17/02/2017) is now revised in the monitoring report; and made in line with the PDD.				
Documentation provided by project participant				
MR version 02 dated 21/08/2017				
DOE assessment				Date: 22/08/2017
PP had revised the MR. The changes made is in line with the PDD. Hence acceptable CAR 01 is closed.				

CAR ID	02	Section no.	A.1	Date: 12/07/2017
Description of CAR				

The section A.1 of the Monitoring report not covers the following;	
<ul style="list-style-type: none"> - total GHG emission reductions or net GHG removals by sinks achieved in this monitoring period. - Relevant dates of the project activity (eg. Commissioning date) - Technology details 	
Project participant response	Date: 21/08/2017
The same have been incorporated according in line with the requirements of MR for completion. Section A.1 of the Monitoring Report is revised.	
Documentation provided by project participant	
MR version 02 dated 21/08/2017	
DOE assessment	Date: 22/08/2017
PP had revised the MR. The changes made is in line with requirements to complete Monitoring report form (CDM-MR-FORM) and attachment 'instructions for filling out the monitoring report form'. Hence acceptable CAR 02 is closed.	

CAR ID	03	Section no.	A.2	Date: 12/07/2017
Description of CAR				
The section A.2 of the Monitoring report not contains the details of Host Party.				
Project participant response				Date: 21/08/2017
Host Party of the project activity is INDIA & the same now has been updated in the section A.2 of the revised Monitoring Report.				
Documentation provided by project participant				
MR version 02 dated 21/08/2017				
DOE assessment				Date: 22/08/2017
PP had revised the MR. The changes made is in line with requirements to complete Monitoring report form (CDM-MR-FORM) and attachment 'instructions for filling out the monitoring report form'. Hence acceptable CAR 03 is closed.				

CAR ID	04	Section no.	A.5	Date: 12/07/2017
Description of CAR				
The section A.5 of the Monitoring report not mentions about the start date of the crediting period.				
Project participant response				Date: 21/08/2017
The start date of the crediting period is updated as required in the section A.5 of the revised Monitoring Report.				
Documentation provided by project participant				
MR version 02 dated 21/08/2017				
DOE assessment				Date: 22/08/2017
PP had revised the MR. The changes made is in line with requirements to complete Monitoring report form (CDM-MR-FORM) and attachment 'instructions for filling out the monitoring report form'. Hence acceptable CAR 04 is closed.				

CAR ID	05	Section no.	D.2	Date: 12/07/2017
Description of CAR				
The section D.2 of the Monitoring report not mentions about the monitoring equipment's details viz. make, serial number.				
Project participant response				Date: 21/08/2017
Monitoring report has been updated with the monitoring equipment's details viz. make, serial number. DOE is requested to go through the section D.2 of the revised MR for the same.				
Documentation provided by project participant				
MR version 02 dated 21/08/2017				
DOE assessment				Date: 22/08/2017
PP had revised the MR. The changes made is in line with requirements to complete Monitoring report form (CDM-MR-FORM) and attachment 'instructions for filling out the monitoring report form'. Hence acceptable CAR 05 is closed.				

CAR ID	06	Section no.	E.1.	Date: 12/07/2017
Description of CAR				
The emission reduction calculation given in the ER sheet is not tallying with $EG_{BL,y}$ value of the JMRs. PP is requested to PP is requested to update the ER sheet by incorporating the moth wise (based on bill dates) Import data, Export data and transmission loss data to avoid error.				
Project participant response				Date: 21/08/2017

ER sheet has been updated as required for DOE perusal. Kindly go through the “Monthwise Details” tab in ER Sheet.	
Documentation provided by project participant	
Arhyama Emission Reduction Spreadsheet_Ver 02 and MR Version 02 dated 21/08/2017	
DOE assessment	Date: 22/08/2017
PP has now revised the MR and Emission reduction spread sheet. The revisions made are found appropriate. Hence CAR 06 is closed.	

Table 4. FAR from this verification

FAR ID	xx	Section No.		Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY