





**Validation report form for post-registration changes for
CDM project activities**

(Version 02.0)

BASIC INFORMATION

Title and UNFCCC reference number of the project activity	Baragran Hydro Electric Project, 3.0 MW (being expanded to 4.9 MW) UNFCCC Ref no. 1253
Process track	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
Version number of the validation report on PRCs	01.1
Completion date of the validation report on PRCs	26/07/2018
Type(s) of PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation project activities
Version number of PDD to which this report applies	Version 09, dated 30/05/2018
Project participants	<ul style="list-style-type: none"> ▪ KKK Hydro Power Limited ▪ Bunge Emissions Fund Limited
Host Party	India
Applied methodologies and standardized baselines	Selected Methodology: AMS-I.D. - Grid connected renewable electricity generation, version 18; Dated: 27/11/2014 Selected standardized baseline: N/A
Mandatory sectoral scopes linked to the applied methodology	Sectoral Scope 1 – Energy industries (renewable/ non-renewable sources),

Conditional sectoral scopes linked to the applied methodologies	N/A
Name and UNFCCC reference number of the DOE	 LGAI Technological Center, S.A. (Applus+ Certification) UNFCCC ref.No-E-0032
Name, position and signature of the approver of the validation report on PRCs	Name: Mr. Juan Sendin Caballero Position: Applus + Certification BU Managing Director Signature: 

SECTION A. Executive summary

>> The Baragran Hydro Electric Power Project is promoted by KKK Hydro Power Limited and is a run of the river scheme utilising the water of Sanjoin-nala, a tributary of the Beas river near the village Patlikuhal in Kullu District of Himachal Pradesh State. The project activity has installed a total of 4.9 MW (3 MW + 1.9 MW) run-of-the-river small hydro power project to export clean power to Himachal Pradesh State Electricity Board (HPSEB) grid. The project activity was commissioned in two phases 3.0 MW commissioned Unit-I as on 05/08/2004 and Unit-II as on 19/09/2004; whereas 1.9 MW commissioned Unit-III as on 14/07/2008.

The project activity is fully functional and the assessment team verified this during the site visit of project site.

The basic details of the project activity are mentioned below:

Project title	Baragran Hydro Electric Project, 3.0 MW (being expanded to 4.9 MW)
UNFCCC registration number	1253
Date of registration	29/11/2008
Sectoral scope	1 – Energy industries (renewable/ non-renewable sources).
Methodology/ies applied	AMS-I.D. (version 18.0.0): “Grid connected renewable electricity generation”
Project participants	KKK Hydro Power Limited Bunge Emissions Fund Limited
Location of Project Activity	Patlikuhal village in Kullu District of Himachal Pradesh State of India

Scope of validation

LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by KKK Hydro Power Limited to conduct the validation of project design change for the CDM project activity “Baragran Hydro Electric Project, 3.0 MW (being expanded to 4.9 MW)” (UN ref no. 1253) in India.

During the course of validation review of revised PDD version 09 dated 30/05/2018, the PP proposes Post Registration Changes to the project activity in order to address the actual implementation status of project. The scope of validation remains limited to the proposed changes to the registered PDD. This validation is an independent and objective review of the post registration changes proposed in the revised PDD against latest CDM Validation and Verification Standard (CDM VVS for PAs version 01.0), Project Standard (CDM PS for PAs version 01.0), Project Cycle Procedures (CDM PCP for PAs version 01.0) and other related requirements, as appropriate.

Validation process

The validation process is undertaken by validation team that involved the desk review of proposed changes as submitted by the PP, undertaking site visit, interview or interactions with the representative of PP, reporting and closure of findings, as appropriate and preparing a draft validation report complying with the CDM requirements. An independent Technical Review team reviews the validation report prepared by the team. The final validation report accepted by Technical Reviewer is then approved on behalf of Applus+ Certification and processed further as per CDM procedures.

Conclusion

The description in the revised PDD, Version 09 dated 30/05/2018 meets all relevant UNFCCC requirements for the CDM and correctly applies the selected baseline and monitoring methodology.

This report is the assessment opinion for all the changes that are proposed in the registered PDD, the changes are permanent in nature and therefore there is no temporary deviation from the registered monitoring plan and request is submitted as part of issuance. The proposed changes to the registered PDD are covered under Appendix of the CDM Project Standard for project activities version 1.0 (EB 93, Annex 04) and hence does not require prior approval by the Board.

SECTION B. Validation team, technical reviewer and approver

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B.1. Validation 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/document review	On-site inspection	Interviews	Validation findings
1.	Team Leader	OR	Ahirwar	Vivek Kumar	GCEES	Y	Y	Y	Y
2.	Local Expert & Technical Expert(TA1.2)	OR	Ahirwar	Vivek Kumar	GCEES	Y	Y	Y	Y
3.	Financial/ Other Expert	OR	Ahirwar	Vivek Kumar	GCEES	Y	Y	Y	Y
4.	Auditor in Trainee	OR	Soni	Ravi Kant	GCEES	Y	Y	Y	Y

B.2. Technical reviewer and approver of the validation report on PRCs

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	EI	Shen	Simon	Applus+ Certification
2.	Technical Expert (TA1.2)	EI	Shen	Simon	Applus+ Certification
3.	Approver	IR	Sendin	Juan	Applus+ Certification

SECTION C. Means of validation**C.1. Desk/document review**

>>Applus+ Certification conducted a desk review as under;

- A review of the data and information presented to verify their completeness;
- A review of the monitoring plan, the monitoring methodology including applicable tool(s) and, where applicable, the applied standardized baseline, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures;

- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions;

In addition to the monitoring documentation, Applus+ Certification has reviewed;

- The Registered PDD, version 06 dated 21/08/2008, approved PDD Version 08 dated 16/02/2016, revised PDD version 09, dated 30/05/2018 and the monitoring plan;
- The applied monitoring methodology (AMS-I.D. ver. 18);
- The monitoring report (all versions) to verify that it is as per the standardized format;
- Any other information and references relevant to the project activity's emission reductions (e.g. IPCC reports, data on electricity generation in the national grid or laboratory analysis and national regulations).

The complete list of documents reviewed is included under Appendix 3.

C.2. On-site inspection

The assessment team has done validation site visit with project participant and following point has been covered during this call.

Duration of on-site inspection: 28/05/2018				
No.	Activity performed on-site	Site location	Date	Team member
1.	Confirm the implementation and operation of the project;	Project Site at Village - Patlikuhl, District - Kullu, Himachal Pradesh, India	28/05/2018	Vivek Kumar Ahirwar and Ravi Kant Soni
2.	Review the data flow for generating, aggregating and reporting the monitoring parameters;		28/05/2018	Vivek Kumar Ahirwar and Ravi Kant Soni
3.	Confirm the correct implementation of procedures for operations and data collection;		28/05/2018	Vivek Kumar Ahirwar and Ravi Kant Soni
4.	Cross-check the information provided in the PDD documentation with other sources;		28/05/2018	Vivek Kumar Ahirwar and Ravi Kant Soni
5.	Check the monitoring equipment against the requirements of the PDD and the approved methodology, including calibrations, maintenance, etc.;		28/05/2018	Vivek Kumar Ahirwar and Ravi Kant Soni
6.	Review the calculations and assumptions used to obtain the GHG data and ER;		28/05/2018	Vivek Kumar Ahirwar and Ravi Kant Soni
7.	Identify if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters.		28/05/2018	Vivek Kumar Ahirwar and Ravi Kant Soni

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Kumar	Satish	Executive Director, KKKHPL	28/05/2018	Project Activity Description, implementation and operation of the project. Calculations and assumptions used to obtain the GHG data and ER.	Vivek Kumar Ahirwar and Ravi Kant Soni
2.	Sharma	O. P.	Plant Manager, KKKHPL	28/05/2018		Vivek Kumar Ahirwar and Ravi Kant Soni
3.	Sharma	Mukesh Kumar	Plant In-charge, KKKHPL	28/05/2018		Vivek Kumar Ahirwar and Ravi Kant Soni
4.	Morya	Shailender	IT Support, KKKHPL	28/05/2018		Vivek Kumar Ahirwar and Ravi Kant Soni

C.4. Sampling approach

>>Not applicable

C.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	-	-	-
Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines	-	-	-
Corrections	-	-	-
Changes to the start date of the crediting period	-	-	-
Inclusion of a monitoring plan	-	-	-
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools	-	CAR#1	-
Changes to the project design	-	-	-
Changes specific to afforestation and reforestation project activities	-	-	-
Others (please specify)	-	-	-
Total	-	1	-

SECTION D. Validation findings**D.1. Compliance with PDD form**

Means of validation	The project participants used a later version of the PDD form/10/ for the revised PDD/1/ than the version of the PDD form of the approved PDD/2/. By means of checking updated PDD with the latest applicable and available PDD template form/10/, version 10.1, the DOE can confirm that the information transferred to the later version of the PDD form is materially the same as that in the approved PDD/2/ besides those changes highlighted and assessed under this report. This is small-scale project type – I and estimated annual average emission reduction 25,967 t CO ₂ e and estimated for entire 2 nd crediting period of 7 years as 181,769 t CO ₂ e
Findings	No finding was raised
Conclusion	The updated PDD is in line with the latest applicable PDD form/10/.

D.2. Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.3. Corrections

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.4. Changes to the start date of the crediting period

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.5. Inclusion of a monitoring plan

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools

<p>Means of validation</p>	<p>The permanent changes in the monitoring plan as outlined under approved PDD/2/ are a result of a CAR raised during the second periodic verification of the project activity. The changes to the monitoring plan have been proposed by the PP in response to the CAR, along with the revised PDD/1/ and the changes are summarized below:</p> <p>Change #1:The approved PDD/2/ mentions that the meters will be calibrated and tested once in six month. In the revised PDD/1/ the PP has updated the calibration frequency as once in 5 years.</p> <p>Assessment and Validation opinion on changes: In accordance with section 4, clause (i) of the Power Purchase agreement (PPA) /12/ signed with state utility (HPSEB), <i>"The metering arrangements with facilities to record export and import of energy shall be provided in accordance with the Central Electricity Authority (Installation and Operation of meters) Regulations 2006. The periodicity of testing, checking, calibration etc will be governed by the regulations issued by Central Electricity Authority (CEA) in this regard"</i>.</p> <p>The national guidelines issued by the Central Electricity Authority, Ministry of Power, Government of India Notification No. 502/70/CEA/DP&D dated 17/03/2006 /13/ (www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf) which is considered as national standard, mentions that "All interface meters shall be tested at least once in five years."</p> <p>Further, as per PPA/12/, the meters shall be sealed by the state utility and that any meter seal shall be broken only by the representative of state utility whenever the metering systems is to be inspected, tested, adjusted, repaired or replaced. This confirms that the meters are sealed and in control of the state utility who calibrates/tests the meters.</p> <p>Further validation team checked the registered CDM project activity titled "Baragran Hydro Electric Project, 3.0 MW (being expanded to 4.9 MW)" (UN Ref No. 1253) and found that the project developer has installed 4.9 MW hydro project in the state of Himachal Pradesh, India. However, during verification, PP has revised the calibration frequency from once in six months to once in five year as state electricity board (responsible for meter calibration) conducting accuracy checks in once in five year.</p> <p>The calibration frequency of the meters is not in control of the PP and the revised calibration frequency of "once in 5 years" is in accordance with the national standards hence deemed appropriate. This is a case where the PDD has indicated a calibration periodicity which is tighter than the commonly accepted standard. But as the project activity follows and practices the commonly accepted standard there will be no impact in the determination of emission reductions. Further, the validation team is able to confirm that this change have no material impact on the applicability of the applied methodology or the accuracy and completeness of the monitoring. Thus, same revision is acceptable to the validation team.</p> <p>Change #2: In line with the requirement of latest PDD template form/10/, the PP has added line diagram indicating the monitoring points under section B.7.3 of the revised PDD/1/.</p> <p>The proposed revised monitoring plan will be applicable to project from second</p>
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	monitoring period (01/11/2016 to 31/03/2018) onwards once approved by EB.
Findings	CAR #1 was raised and resolved
Conclusion	<p>In line with the guidelines prescribed under paragraph 296-299 of CDM VVS for project activities version 01.0, the assessment team able to confirm that:</p> <ul style="list-style-type: none"> (a) The changes to the registered monitoring plan are permanent in nature and do not deviates from the relevant requirements of the applied methodology and comply with the requirements stipulated in the “CDM project standard for project activities”. (b) The changes to the registered monitoring plan described in the revised PDD/1/ are in compliance with the applied methodology AMS-I.D. ver. 18 /5/, and do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan. (c) The permanent changes to the registered monitoring plan are not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions or net anthropogenic GHG removals. (d) The permanent changes comply with the relevant requirements related to the permanent changes to the registered monitoring plan in the “CDM project standard for project activities”. <p>A revised PDD/1/reflecting the permanent changes in the monitoring plan is being submitted in line with the requirements outlined under paragraph 133-134 of CDM PCP for project activities version 1.0/08/.</p>

D.7. Changes to the project design

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.8. Changes specific to afforestation and reforestation project activities

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

SECTION E. Internal quality control

>>As a final step of validation, the final documentation including the validation report has to undergo an internal quality control by the Technical Reviewer. Each report has to be finally approved either by the DOE's Technical Manager or the Deputy. In case one of these two persons is part of the assessment team, the approval can only be given by the person who is not a part of the assessment team. If the documents have been satisfactorily approved, the Request for Issuance is submitted to the CDM-EB along with the relevant documents.

SECTION F. Validation opinion

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Applus+ Certification has performed the validation of the post registration changes of the project activity UNFCCC ref. no 1253 and title "Baragran Hydro Electric Project, 3.0 MW (being expanded to 4.9 MW)". The validation was performed on the basis of rules and requirements defined by UNFCCC for the CDM project activities. The review of the revised PDD, supporting documentation and subsequent follow-up actions (including interviews), have provided Applus+ Certification with sufficient evidence to determine the fulfilment of stated criteria. The changes proposed are summarized in section D.6 of this report.

The description in the revised PDD, Version 09 dated 30/05/2018 /1/ meets all relevant UNFCCC requirements for the CDM and correctly applies the selected baseline and monitoring methodology. This report is the validation opinion for all the changes that are proposed in the approved PDD/2/, the changes are permanent in nature and therefore there is no temporary deviation from the monitoring plan. All the proposed changes to the approved PDD/2/ are covered under paragraph 1 of Appendix of the CDM Project Standard for project activities version 01.0 and hence do not require prior approval by the Board. However, there is revision that the changed in calibration frequency of energy meter and inclusion of line diagram in section B.7.3, hence revised PDD/1/ will be submitted together with request for change in respective section.

Appendix 1. Abbreviations

Abbreviations	Full texts
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM PCP	Clean Development Mechanism Project Cycle Procedure
CDM PS	Clean Development Mechanism Project Standard
CDM VVS	Clean Development Mechanism Validation and Verification Standard
CEA	Central Electricity Authority
CER	Certified Emission Reduction
CL	Clarification Request
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
EF	Emission Factor
ER	Emission Reductions
FAR	Forward Action Request
GCEES	Green Carbon Energy & Environment Services
GHG	Greenhouse Gas(es)
IPCC	Intergovernmental Panel on Climate Change
MP	Monitoring Plan
MWh	Megawatt hour
NTPC	National Thermal Power Cooperation
O&M	Operation and Maintenance
PDD	Project Design Document
PP	Project Participant
PPA	Power Purchase Agreement
PRC	Post Registration Changes
PS	Project Standard
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers

According to the sectoral scopes / technical area and experiences in the sectoral or national business environment, Applus+ Certification has composed a project validation team in accordance with the appointment rules in Applus+ Certification. The composition of assessment team has to 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 as below:

- Lead Auditor (LA)
- Auditor (A)/Auditor Trainee (AiT)
- Technical Experts (TE)
- Technical Reviewer (TR)

It is required that the sectoral scope / technical area related to the methodology has to be covered by the assessment team.

Name	Qualification	Coverage of scope	Coverage of technical Area	Financial aspect	Host country Experience	Attendance to the On-Site Assessment
Vivek Kumar Ahirwar	Lead Auditor (LA)	Yes (1)	Yes (1.2)	N/A	Yes	Yes
Vivek Kumar Ahirwar	Technical Expert (TE)	Yes (1)	Yes (1.2)	N/A	Yes	Yes
Ravi Kant Soni	Auditor in Training (AiT)	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 validation team members are provided below:

Vivek Kumar Ahirwar is a BEE-Certified Energy Auditor by Govt of India with over eight years of relevant experience in energy efficiency, energy audit, thermal and electrical energy generation technology from renewable source 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 100 GHG (CDM/VCS/GS) projects in different states across the India. 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)

Ravi Kant Soni is a certified lead auditor for Lead Auditor ISO 14001:2004&Lead Auditor ISO 14064:2006 GHG Inventory and verification. He has more than 10 years of work experience across Climate Change, Environmental Management & Monitoring, Health & Safety Management, and Statutory Compliance. He was involved in more than 100 CDM validation and verifications activities and Gold Standard, VER projects as a team leader/technical reviewer / validator / verifier covering the sectoral scope 1 technical area 1.2. 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 M.I.T.S Gwalior Jiwaji University Gwalior, India.

Simon Shen(Master Degree in Thermal Energy Engineering, Bachelor Degree in Environmental Engineering) is a Lead Auditor appointed by Applus+ LGAI for the GHG project assessment. He is based in Shanghai. He has several years of work experience in environmental protection field. Before he joined Applus+ Certification, he had been worked for TÜV SÜD as a GHG Validator/Verifier and ISO 9001/14001 Lead Auditor for 3.5 years

Appendix 3. Documents reviewed or referenced

No	Author	Title	References to the document	Provider
1	KKKHPL	Revised PDD, version 9	30/05/2018	PP
2	KKKHPL	Approved Revised PDD, version 8	16/02/2016	PP
3	KKKHPL	Registered PDD, version 6	21/08/2008	Other: UNFCCC
4	SGS	Validation report of "Baragran Hydro Electric Project, 3.0 MW (being expanded to 4.9 MW)"	24/10/2008	Other: UNFCCC
5	UNFCCC website	AMS-I.D. (version 18.0.0): "Grid connected renewable electricity generation"	Dated 28/11/2014	Other: UNFCCC
6	UNFCCC website	Clean Development Mechanism Validation and Verification Standard for Project Activity (CDM-VVS for PA), version 01.0 as per EB 93, Annex 5	Dated 03/03/2017	Other: UNFCCC
7	UNFCCC website	CDM Project Standard for Project Activity (CDM-PS for PA), version 01.0 as per EB 93, Annex 4	Dated 03/03/2017	Other: UNFCCC
8	UNFCCC website	CDM PCP for project activities, Version 01	Dated 03/03/2017	Other: UNFCCC
9	UNFCCC website	CDM Project activity view page "Baragran Hydro Electric Project, 3.0 MW (being expanded to 4.9 MW)" https://cdm.unfccc.int/Projects/DB/SGS-UKL1185291151.37/view	Registered 29/11/2008	Other: UNFCCC
10	UNFCCC website	Project design document form for CDM PAs	Version 10.1, dated 28/06/2017	Others: UNFCCC
11	HPSEB	Calibration certificates of main meters and check meters	-	KKKHPL
12	HPSEB	Power Purchase Agreement between HPSEB and PP	Dated 11/03/2008	KKKHPL
13	CEA	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 (http://www.cea.nic.in/reports/regulation/meter_reg.pdf)	Dated 17/03/2006	Others

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

Table 1. CLs from this validation

CL ID	N/A	Section no.	N/A	Date : N/A
Description of CL				
N/A				
Project participant response				Date : N/A
N/A				
Documentation provided by project participant				
N/A				
DOE assessment				Date:N/A
N/A				

Table 2. CARs from this validation

CAR ID	01	Section no.	B.2	Date : 29/05/2018
Description of CAR				
The PP is requested to provide validity of equipment as per revised approved PDD and also clarify if there is delay in calibration of meters occurred in the current monitoring period, so why delayed calibration period is not reported in the MR and ER sheet.				
Project participant response				Date : 30/05/2018
In line with para 18.1.b of the notification dated 17/03/2006 published by Central Electricity Board, Govt. of India (www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf) says: <i>All interface meters shall be tested at least once in five years. These meters shall also be tested whenever the energy and other quantities recorded by the meter are abnormal or inconsistent with electrically adjacent meters. Whenever there is unreasonable difference between the quantity recorded by interface meter and the corresponding value monitored at the billing center via communication network, the communication system and terminal equipment shall be tested and rectified. The meters may be tested using NABL accredited mobile laboratory or at any accredited laboratory and recalibrated if required at manufacturer's works.</i> In line with above guideline for meter calibration by Central Electricity Board, Govt. of India, the calibration frequency corrected as once in five year. These meters also tested whenever the energy and other quantities recorded by the meter are abnormal or inconsistent with electrically adjacent meters. Same has been described in the revised PDD dated 30/05/2018, Version 09. The MR and ER sheet are modified accordingly.				
Documentation provided by project participant				
Monitoring Report version 02 & ER sheet version 02 PDD version 09 , 30/05/2018 track change and clean PDD version 08, 16/02/2016 on new PDD format				
DOE assessment				Date:30/05/2018

The PP has requested to change the calibration frequency from annual to once in 5 years as the same is not under control of PP. Accordance with the guidelines as state under section 3.2.3 of CEA Notification No. 502/70/CEA/DP&D dated 17/03/2006 which is considered as national standard "All interface meters shall be tested at least once in five years."

As per the PPA, state utility is the sole authority responsible for calibration of meters and the PP has no control over the same. It is also confirmed that the PP receives payment, for the electricity supplied to the grid, from the state utility (which is a Government Organisation and a 3rd party with respect to this CDM project). This electricity supplied is obtained from the monthly statements issued by the state utility. Hence the state utility ensures that the energy meters are in proper working condition, since it has to make payments based on these meter readings. Hence the assessment team can be confirms that the calibration frequency of once in 5 year, mentioned in the revised PDD for the meters is appropriate.

CAR #1 is closed.

Table 3. FARs from this validation

FAR ID	N/A	Section no.	N/A	Date: N/A
Description of FAR				
N/A				
Project participant response				Date: N/A
N/A				
Documentation provided by project participant				
N/A				
DOE assessment				Date: N/A
N/A				

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Document information

Version	Date	Description
02.0	31October2017	Revision to align with the requirements in the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23March 2015	Initial publication.
Decision Class: Regulatory		
Document Type: Form		
Business Function: Registration		
Keywords: post-registration change, project activities, validation report		