



**Validation report form for renewal of crediting period for
CDM project activities
(Version 03.0)**


Complete this form in accordance with the instructions attached at the end of this form.

BASIC INFORMATION

Title and UNFCCC reference number of the project activity	6.25 MW grid-connected Sattegala Mini Hydel Scheme at SLS Power Industries Ltd in Chamarajanagar District, Karnataka (UNFCCC number-0923 ¹)
Number and duration of the next crediting period	2 nd renewable crediting period 24/03/2014 to 23/03/2021
Version number of the validation report	02
Completion date of the validation report	26/11/2019
Version number of PDD to which this report applies	3.3
Project participants	M/s Bhoruka Power Corporation Limited ²
Host Party	India
Applied methodologies and standardized baselines	AMS-I.D. "Grid connected renewable electricity generation" Version 18.0.
Mandatory sectoral scopes	01
Conditional sectoral scopes, if applicable	NA
Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next crediting period	24,408 tCO ₂ e
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	Mr. Juan Sendín Caballero <i>Applus+ Certification Business Unit Managing Director</i>

¹ <https://cdm.unfccc.int/Projects/DB/RWTUV1171023572.57/view>

² At the time of CDM registration, the PP name was SLS Power Industries Ltd. However, PP name has now been changed to M/s Bhoruka Power Corporation Limited. The PP has also obtained PRC (PRC-0923-001) & the new Host Country Approval letter from the DNA- India in the name of M/s Bhoruka Power Corporation Limited.

	Signature: 
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SECTION A. Executive summary

M/s Bhoruka Power Corporation Limited, herein after referred to as, “project participant (PP)” has implemented and operating a 6.25 MW (4 X 1.563) Small Hydroelectric grid connected renewable energy project on right bank of Cauvery River about 2 Km upstream of the Sattegara bridge in District Chamarajanagar of the state of Karnataka, India.

The run-of-the river hydro power project activity is intended to generate electricity using the kinetic energy of water resources in the Cauvery River and exporting the generated electricity to grid through the state owned power utility company Karnataka Power Transmission Corporation Ltd. (KPTCL). For this activity it is proposed to construct a small hydroelectric project where the hydro potential is available.

The project design comprises an approach channel, diversion structure, scouring sluice, Intake Structure, powerhouse, Switchyard and tailrace canal. The project scheme intercepts water flows of around 546 cum/sec (average) in Dhanagere anicut at 8 Km upstream of the proposed site and diverts it for power generation over a net head of 5 m, in the power house located on the right bank of Cauvery river about 2 Km upstream of the Sattegara bridge. Water after power generation will be led back into the parent stream by means of a tailrace channel emanating from the powerhouse.

As the proposed activity is a Greenfield activity and in the absence of the project activity the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources in the grid

Validation Scope: M/s Bhoruka Power Corporation Limited has contracted Applus+ Certification to conduct the validation of the renewal of the crediting period of the project activity. The scope is defined as an independent and objective review of the project design document (PDD) for the renewal of the crediting period. The PDD is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board, including the approved baseline and monitoring methodology AMS-I.D. “Grid connected renewable electricity generation” Version 18.0. The validation of the renewal of the crediting period was based on the requirements in the CDM validation and verification standard for project activities, version 02 and renewal of crediting period in accordance with requirements of CDM methodological tool “TOOL11 – Assessment of the validity of the original / current baseline and update of the baseline at the renewal of the crediting period” – version 03.0.1.

The validation is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design document.

Validation Process: The project assessment is based on the “CDM validation and verification standard for project activities, version 02 and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the CDM project activity are appointed.

Once the project is made available for the global stakeholder consultation process, the members of the assessment team carried out:

- I A desk review of the project design documentation for renewal of crediting period;
- II Follow-up interviews with project stakeholders;
- III The resolution of outstanding issues and the issuance of the final validation report and opinion.

The prepared validation report and other supporting documents then undergo an internal quality control at the HQ (Accredited office) before being submitted to the CDM-EB.

In order to ensure transparency, assumptions must be clear and stated explicitly and background material must also be referenced. Applus+ Certification has developed a specific Checklist customized for the project. The checklist demonstrates, in a transparent manner, the project criteria (requirements), discussion on each criterion by the assessment team, and the results from validating the identified criteria.

Appointment of the assessment team

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 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	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Dr. Atul Takarkhede	LA/TE	YES	YES	YES	YES
Denny Xue	TR	YES	YES	YES	NA

The complete list of CVs is included as Appendix 2 of this report.

Document review

The Project Design Document submitted by the Client was reviewed against the approved methodology and other relevant criteria to verify the correctness, credibility, and interpretation of the presented information. Furthermore, a cross-check between information provided and information from other sources like 3rd party Government documents has been done. A complete list of all documents and evidence material reviewed is included in Appendix 3 of this report.

Follow-up interviews

A site visit is conducted by Applus+ Certification performed interviews, telephone conferences, and physical site inspection with project stakeholders to confirm selected information and to resolve issues identified in the document review. The detail is provided in section C.2 and C.3 of this report.

Resolution of Clarification and Corrective Action Request

The objective of this phase of the validation was to resolve the requests for corrective actions and clarification and any other outstanding issues which need to be clarified for Applus+ Certification positive conclusion on the project design. The Corrective Action Requests and Clarification Requests raised by Applus+ Certification were resolved during communications between the Client and Applus+ Certification to guarantee the transparency of the validation process, the concerns raised and responses given are summarized in Appendix 4 below.

The final PDD version 3.3 submitted by PP on 26/11/2019 serves as the basis for the final assessment presented. Additional changes to the project during the validation process are not considered to be significant with respect to the main CDM objectives. The two CDM main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Internal quality control

As final step of a validation of the final documentation including the validation report and the checklist have to undergo an internal quality control by the technical review committee, i.e. each report has to be finally approved either by the head of the technical review committee or the deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one to avoid any conflict of Interest.

After confirmation of the PP the validation opinion and relevant documents are submitted to the EB through the UNFCCC web-platform.

Conclusion

Applus+ Certification has performed a validation of the renewal of the crediting period of the “6.25 MW grid-connected Sattigala Mini Hydel Scheme at SLS Power Industries Ltd in Chamarajanagar District, Karnataka”. The validation was performed on the basis of UNFCCC criteria and host country criteria, as well as criteria, e.g. AMS-I.D. “Grid connected renewable electricity generation” Version 18.0, given to provide for consistent project operations, monitoring and reporting.

The review of the project design documentation for the renewal of the crediting period and the subsequent follow-up interviews have provided Applus+ Certification with sufficient evidence to determine the fulfillment of stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM and all relevant host country criteria. The project will hence be recommended by Applus+ Certification for the renewal of the crediting period with the UNFCCC.

Applus+ Certification has received a confirmation from the host Party that the project activity assists it in achieving sustainable development.

By displacing fossil fuel-based electricity with electricity generated from a renewable source, the project results in reductions of CO₂ emissions that are real, measurable and give long-term benefits to the mitigation of climate change. An analysis of the positive list of renewable project demonstrates that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of annual emission reductions of 24,408 tCO₂e.

The validation has been performed following the requirements of the latest version of the CDM validation and verification standard for project activities, version 02 and on the basis of the contractual agreement. The single purpose of this report is its use during the registration process as part of the CDM/ UNFCCC project cycle.

SECTION B. Validation team, technical reviewer and approver

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	Interview(s)	Validation findings
1.	Lead Auditor/ Technical Expert	OR	Takarkehede	Atul	True Quality Certifications Private Limited- Outsourced entity	YES	YES	YES	YES

B.2. Technical reviewer and approver of the validation report for RCP

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	Xue	Denny	Applus+ Certification
2.	Approver	IR	Sendín Caballero	Juan	Applus+ Certification

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

The details of the document observed during desk review /validation process are listed below in Appendix 3 of this report.

C.2. On-site inspection

Duration of on-site inspection: 23/11/2019					
No.	Activity performed on-site	Site location	Date	Team member	
1.	Assessment team checked the implementation of the project, Baseline emission, Emission reduction calculation, technical description of the project and Monitoring.	Sattegala Village, Kollegal Taluk, Chamarajanagar District, Karnataka, India	23/11/2019	Dr. Atul Takarkhede	

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Mr. Sagameshwara	G.B	PP representative	23/11/2019	As explained in section C.2	Dr. Atul Takarkhede

C.4. Sampling approach

The assessment team did not apply any sampling approach for the project activity. The site visit was conducted for complete power plant implemented in the locations as mentioned in the PDD.

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

Area of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	00	02	00
Application and selection of methodologies and standardized baselines	00	00	00
Validity of original baseline or its update	00	00	00
Estimated emission reductions or net anthropogenic removals	00	02	00
Validity of monitoring plan	00	01	00
Crediting period	00	01	00
Project participants	00	01	00
Post-registration changes	00	00	00
Others (please specify)	00	00	00
Total	00	07	00

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

Means of validation	Assessment team checked the PDD version 11.0 forms supplied by the project participant and found that the latest form applicable in the UNFCCC web site is used for the presentation of the PDD.
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Findings	CAR 01 & CAR 02 was raised during the validation process and closed successfully. Please refer Appendix 4 for the detail closure of the CAR																														
Conclusion	<p>The PDD mentions all the criteria as detailed out in PDD form version 11.0 properly and found correct by the assessment team.</p> <p>Assessment team also checked the commissioning details and found the same to be correct. All the four units of the project activity were commissioned on different dates (Unit 1 on 18/09/2006, Unit 2 on 14/09/2006, Unit 3 and Unit 4 on 06/11/2006). However, commercial operations could not be started immediately as some civil works had to be carried out in head race and tail race channels to achieve rated head. All units were re-commissioned and machines were put into commercial operation from 17/06/2007. The actual commissioning date checked from the 3rd party documents and found to be accurate.</p> <p>The technical details for the revision of Crediting period were checked by the assessment team from the details available from the manufacturers and also during the onsite visit. The details are as below:</p> <p>The present proposed project activity involves installation of four units of 1.563 MW capacities each. Based on the availability of water in the canal the project proponents anticipated a net generation of 27.47 Million Units per year, which reflects a PLF of 50.17%. The brief technical particulars of the project activity are given below in the table.</p> <p>Hydrology</p> <table border="1"> <tr> <td>Design Flow</td><td>37.52 m³/sec per turbine</td></tr> <tr> <td>Gross head</td><td>5.2m</td></tr> <tr> <td>Net rated head</td><td>5 m</td></tr> <tr> <td>Runner Diameter</td><td>3000 mm</td></tr> <tr> <td>Rate Speed</td><td>750 rpm</td></tr> </table> <p>Energy</p> <table border="1"> <tr> <td>Expected annual gross generation</td><td>28.32 Mu</td></tr> <tr> <td>Generation voltage level</td><td>3.3kV</td></tr> <tr> <td>Grid interfacing voltage</td><td>66kV</td></tr> </table> <p>Plant Equipment</p> <table border="1"> <tr> <td>Hydro Turbine</td><td>4 Nos. Vertical Shaft Full Kaplan.</td></tr> <tr> <td>Rated Flow</td><td>37.52 m³/sec</td></tr> <tr> <td>Rated Net Head</td><td>5.0 m</td></tr> <tr> <td>Rated Speed</td><td>180 RPM</td></tr> <tr> <td>Type of generator</td><td>Vertical Shaft Synchronous.</td></tr> <tr> <td>No. of generating units</td><td>4 Nos. (In one single plant)</td></tr> <tr> <td>Capacity of generating unit</td><td>4 x 1.563 MW (6,250 kW)</td></tr> </table> <p>Assesment team also checked the feeder details of the connected power plant to the sub-station and found that the arrangements are done as per the host country regulation.</p> <p>Assessment team checked the geographical coordinate of the project activity with GPS meter and found that same were correct. The latitude and longitude as mentioned in the registered PDD for 1st crediting period are as below:</p> <p>The exact project location is as under:</p> <p>Latitude: 12°15' 8"N Longitude: 77°8'47"E</p> <p>No post registration changes is envisaged for the 2nd CP as the project is implemented as per the registered PDD of 1st CP and in continuous operation apart from scheduled maintenance (as per manufacturer specification) and thus there is</p>	Design Flow	37.52 m ³ /sec per turbine	Gross head	5.2m	Net rated head	5 m	Runner Diameter	3000 mm	Rate Speed	750 rpm	Expected annual gross generation	28.32 Mu	Generation voltage level	3.3kV	Grid interfacing voltage	66kV	Hydro Turbine	4 Nos. Vertical Shaft Full Kaplan.	Rated Flow	37.52 m ³ /sec	Rated Net Head	5.0 m	Rated Speed	180 RPM	Type of generator	Vertical Shaft Synchronous.	No. of generating units	4 Nos. (In one single plant)	Capacity of generating unit	4 x 1.563 MW (6,250 kW)
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	no scenario observed which can alter the requirement of the methodology. The project activity complies with the applicability criteria of the large scale CDM Project activity category. The capacity of the proposed project is 6.25 MW, which is lower than the maximum qualifying Type I capacity of 15 MW. Thus the project qualifies as small scale project. There is no change in installed capacity of the project as mentioned in registered PDD for 1 st CP. The same is checked by the assessment team during onsite visit and found correct.
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D.2. Application and selection of methodologies and standardized baselines

Means of validation	<p>The assessment team has validated the documentation referred to in the revised PDD for renewable of crediting period and verified the documentation content for verifying the justification of the applicability of the methodology AMS-I.D. "Grid connected renewable electricity generation" Version 18.0 and confirmed that the documentation referred to in the PDD is correctly quoted and interpreted. The assessment team has also cross-checked the information provided in the registered PDD of 1st CP with the documentation other than from the PDD based on the local and sectoral knowledge of the assessment team.</p> <p>Following documentation has been reviewed by the assessment team:</p> <ul style="list-style-type: none"> - Site visit - Interview with the concerned person mentioned in this report - Technical detail analysis of the power plant from the documents submitted by the manufacturer. - Commissioning certificates of the turbines <p>The assessment of the project's compliance with the applicability criteria of AMS-I.D. "Grid connected renewable electricity generation" Version 18.0 are documented in detail in section B.2 of the PDD.</p>								
Findings	Applicability criteria were explained properly as per the requirement of the applied approved methodology for the present crediting period. No CAR raised in this Section.								
Conclusion	<p>The applied baseline methodology is justified as it has been demonstrated that the proposed project activity is:</p> <table border="1"> <thead> <tr> <th>Applicability Criterion</th><th>Project case</th></tr> </thead> <tbody> <tr> <td>1. This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass: (a) Supplying electricity to a national or a regional grid. (b) Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling.</td><td>The project activity is a Renewable Energy Project i.e. hydroelectric power project which falls under applicability criteria option 1 (a) i.e., "Supplying electricity to a national or a regional grid". Hence the project activity meets the given applicability criterion.</td></tr> <tr> <td>2. Illustration of respective situations under which each of the methodology (i.e. AMS-I.D, AMS-I.F and AMS-I.A) applies is included in Table.</td><td>The project is installation of a new hydroelectric energy based electricity generation plant that supply electricity to the integrated INDIAN grid (through Southern regional grid). Hence methodology AMS-I. D. is applicable to this project .</td></tr> <tr> <td>3. This methodology is applicable to project activities that (a) install a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity (Greenfield plant); (b) involve a capacity addition ; (c) involve a retrofit of (an) existing</td><td>The project is installation of new hydroelectric energy based electricity generation plants (not addition to existing system). Option (a) is applicable.</td></tr> </tbody> </table>	Applicability Criterion	Project case	1. This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass: (a) Supplying electricity to a national or a regional grid. (b) Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling.	The project activity is a Renewable Energy Project i.e. hydroelectric power project which falls under applicability criteria option 1 (a) i.e., "Supplying electricity to a national or a regional grid". Hence the project activity meets the given applicability criterion.	2. Illustration of respective situations under which each of the methodology (i.e. AMS-I.D, AMS-I.F and AMS-I.A) applies is included in Table.	The project is installation of a new hydroelectric energy based electricity generation plant that supply electricity to the integrated INDIAN grid (through Southern regional grid). Hence methodology AMS-I. D. is applicable to this project .	3. This methodology is applicable to project activities that (a) install a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity (Greenfield plant); (b) involve a capacity addition ; (c) involve a retrofit of (an) existing	The project is installation of new hydroelectric energy based electricity generation plants (not addition to existing system). Option (a) is applicable.
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	plant(s); or (d) involve a replacement of (an) existing plant(s).	
	<p>4. Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology:</p> <ul style="list-style-type: none"> • The project activity is implemented in an existing reservoir with no change in the volume of reservoir; • The project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the power density of the project activity, as per definitions given in the Project Emissions section, is greater than 4 W/m²; • The project activity results in new reservoirs and the power density of the power plant, as per definitions given in the Project Emissions section, is greater than 4 W/m². 	The project activity is a run of river hydroelectric power project, hence no reservoir is required for this project activity; thus the criterion is not applicable to this project activity.
	5. If the new unit has both renewable and non-renewable components (e.g., a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW	The project activity is a 6.25 MW hydroelectric energy based electricity generation. Generation facility does not involve using of co-fire fossil fuels. Hence the criterion is not applicable to the project activity.
	6. Combined heat and power (co generation) systems are not eligible under this category.	The project activity is a small hydro power project and is not a combined heat and power system. Hence the criteria is not applicable to the project activity
	7. In the case of project activities that involve the addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct ³ from the existing units.	The project activity is Greenfield and there is no existing power generation facility at the site. Hence the criteria is not applicable to the project activity
	8. In the case of retrofit or replacement, to qualify as a small-scale project, the total output of the retrofitted or replacement unit shall not exceed the limit of 15 MW.	Not applicable, the hydro power project is a Green field project activity and this project is not the enhancement or up gradation project.
	9. In the case of landfill gas, waste gas, wastewater treatment and agro-industries projects, recovered methane emissions are eligible under a relevant Type III category. If the recovered methane is used for electricity generation for supply to a	Not applicable; this is a hydro power project activity

³ Physically distinct units are those that are capable of generating electricity without the operation of existing units, and that do not directly affect the mechanical, thermal, or electrical characteristics of the existing facility. For example, the addition of a steam turbine to an existing combustion turbine to create a combined cycle unit would not be considered "physically distinct".

	grid then the baseline for the electricity component shall be in accordance with procedure prescribed under this methodology. If the recovered methane is used for heat generation or cogeneration other applicable Type-I methodologies such as “AMS-I.C.: Thermal energy production with or without electricity” shall be explored.	
	10. In case biomass is sourced from dedicated plantations, the applicability criteria in the tool “Project emissions from cultivation of biomass” shall apply	Not applicable; this is a hydro power project activity
<p>(Applus+ Certification) confirms that the application of the baseline methodology is transparent and conservative and confirms that the chosen baseline and monitoring methodology i.e. AMS-I.D. “Grid connected renewable electricity generation” Version 18.0 is applicable to the project activity.</p> <p>The capacity of the proposed project is 6.25 MW, which is less than the maximum qualifying Type I capacity of 15 MW. Thus the project qualifies as small scale project. There is no change in installed capacity of the project as mentioned in registered PDD for 1st CP. As there is no change in design of the plant; the project activity will remain under small scale project activity during every year of 2nd crediting period.</p>		

D.3. Validity of original baseline or its update

Means of validation	The baseline scenario as depicted in the PDD version 3.3 is checked during the validation site visit and also during the interview with the plant official.
Findings	The baseline is selected as per the requirement of the approved methodology AMS-I.D. “Grid connected renewable electricity generation” Version 18.0 for the present Crediting period. However, No CAR is raised for this section.
Conclusion	<p>Assessment team referred “Methodological tool (EB 66, Annex 47) “Assessment of the validity of the original / current baseline and update of the baseline at the renewal of the crediting period.” (Version 03.0.1)” and CDM validation and verification standard for project activities, version 02” to check the originality of the baseline. Following are the observation of the assessment team regarding selected baseline for the project activity in this present 2nd renewable crediting period:</p> <p><u>Step 1.1 (EB 66, Annex 47): Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies</u></p> <p>The baseline for the project activity is the electricity delivered to the grid by the project activity which would have otherwise been generated by the operation of grid connected power plants and by the addition of new generation sources into the grid. The project activity is claiming the emission reductions from the net exported electricity to the grid only. In absence of project activity this quantity of electricity would have been generated from the electricity grid mix (mainly fossil fuel). The Government of India enacted the Electricity Act in the year 2003 to harmonize and rationalize the provisions in the then existing laws. The Act consolidated the laws relating to generation, transmission, distribution, trading and use of electricity. With the Enactment of the act, the then existing laws viz, The Indian Electricity Act 1910, The Electricity Supply Act, 1948 and The Electricity Regulatory Commissions Act, 1998 were repealed. The Electricity Act 2003 was in force at the time of the completion of the baseline study during first crediting period.</p> <p>The baseline remains unchanged for the present (2nd) crediting period since there is no policy been revised and/or is currently in force as well, therefore the baseline scenario is still in compliance with all the relevant mandatory national and/or sectoral policies.</p>

Step 1.2 (EB 66, Annex 47) : Assess the impact of circumstances

There are no new circumstances that can impact the original baseline. The baseline emission factor value is however updated based on the current data available for the grid.

Step 1.3 (EB 66, Annex 47): Assess whether the continuation of the use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested

As per the "Tool to determine the remaining lifetime of equipment", the remaining lifetime of the equipment is the time for which the existing equipment can continue to operate before it has to be replaced/discarded. As per this Tool, Project participant can use one of the following options to determine the remaining lifetime of the equipment:

- (a) Use manufacturer's information on the technical lifetime of equipment and compare to the date of first commissioning;
- (b) Obtain an expert evaluation;
- (c) Use default value

The project activity started commercial operation in the year 17/06/2007 and since commissioning, the project activity is running satisfactorily. As per Manufacturer specification and Registered PDD, the technical lifetime of hydro power plant is 30 years (As per 1st CP). Thus the remaining lifetime of equipment's exceeds the crediting period for which renewal is requested. Thus as per manufacturers information, the remaining lifetime of equipment exceeds crediting period as per option 1 of Tool to determine the remaining lifetime of the Equipment.

The below conditions are fulfilled. (i)The equipment has been operated and maintained according to the recommendations of the equipment supplier; (ii) There are no periodic replacement schedules or scheduled replacement practices specific to the industrial facility, that require early replacement of equipment before the expiry of the technical lifetime; and (iii) The equipment has no design fault or defect and did not have any industrial accident due to which the equipment cannot operate at rated performance levels.

An per option (a), evaluating the remaining lifetime for the type of equipment has been approached and requested to determine the remaining lifetime of the equipment. The assessment of remaining life time of the equipment's had been done and confirmed that the remaining technical lifetime of the equipment of the project activity exceeds the crediting period for which renewal is requested. As the remaining technical lifetime of the equipment is not less than the end of the crediting period or which renewal is requested, the current baseline holds good for this crediting period too.

Step 1.4(EB 66, Annex 47): Assessment of the validity of the data and parameters

This step stipulates that "Where emission factors, values or emission benchmarks are used and determined only once for the crediting period, they should be updated, except if the emission factors, values or emission benchmarks are based on the historical situation at the site of the project activity prior to the implementation of the project and cannot be updated because the historical situation does not exist anymore as a result of the CDM project activity."

The project chosen **ex-ante default value i.e. Emission Factor**. As per the Guidance given in Tool the emission factor is updated as follows:

1. The operating margin is calculated as per the latest version of CEA (Version 14) available to the project participant. The operating margin

	<p>calculation is checked by the assessment team and found correct.</p> <ol style="list-style-type: none"> The build margin is considered from CEA database version 14 as per “Tool to calculate the emission factor for electricity system” version 07. The value considered is checked by the assessment team and found correct The Combined margin calculation is carried out as per “Tool to calculate the emission factor for electricity system” version 07. The value considered is checked by the assessment team and found correct <p>The emission factor is fixed ex-ante and thus will be used for the complete 2nd renewable crediting period and for entire verification conducted under 2nd renewable crediting period.</p> <p>Application of Steps 1.1, 1.2, 1.3 and 1.4 confirmed that the current baseline is valid for the Second crediting period but data and parameters needs to be updated. Therefore step 2 is used</p> <p>Step 2.1: Update the current baseline This step is applicable since the Steps 1.1, 1.2, 1.3 and/or 1.4 showed that the current baseline needs to be updated. As evident from the explanation provided above the baseline scenario remains unchanged.</p> <p>Updated the baseline emissions based on the latest approved version of the methodology applicable to the project activity for the subsequent crediting period, without reassessing the baseline scenario.</p> <p>Step 2.2: Update the data and parameters The updated Data and/or parameter are followed for estimating the baseline emissions</p> <p>Hence as per AMS-I.D. “Grid connected renewable electricity generation” Version 18.0 (latest Methodology), the baseline of the project is as follows:</p> <p><i>“The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid”.</i></p> <p>The above selected baseline is correct and thus applicable to the project activity and in line with approved methodology for the applied renewable of crediting period.</p>
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D.4. Estimated emission reductions or net anthropogenic removals

Means of validation	The emission reduction sheet, CEA database version 14.0 (Latest applicable) and PDD version 3.3 is checked by the assessment team.
Findings	CAR 03 and CAR 04 was raised and closed successfully.
Conclusion	<p>The baseline emissions as discussed in section B.6.1 of the PDD will include emissions that would have occurred in the absence of the project activity. The emission reduction calculation has been done as per the AMS-I.D. “Grid connected renewable electricity generation” Version 18.0</p> <p><u>Baseline Emission (BE_y):</u></p> <p>BE_y = EG_{PJ,y} x EF_{grid, y} Where: BE_y = Baseline emissions in year y (t CO₂/yr) EG_{PJ,y} = EG_{PJ, facility, y} = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr) EF_{grid, CM, y} = EF_{grid, y} = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to</p>

	<p>calculate the emission factor for an electricity system" (t CO₂/MWh)</p> $EF_{\text{grid,CM,y}} = EF_{\text{grid,y}} = \text{Baseline emission factor}$ $= 0.8885 \text{ tCO}_2/\text{MWh}$ $BE_y = 27470 \times 0.8885$ $= 24,408 \text{ tCO}_2 \text{ (round down value)}$ <p>Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors according to the procedure prescribed in the "Tool to calculate the emission factor for an electricity system" version 07.0 which is sourced from CEA version 14.0, Govt. of India and forms the part of emission reduction calculation. The baseline emission factor calculation is checked by the validation team and found that the calculation is transparent and conservative.</p> <p>Hence, BE_y = 24,408 tCO_{2e}</p> <p><u>Project Emissions:</u></p> <p>For most renewable energy project activities, PE_y = 0- as per the para 39 of the applied monitoring methodology AMS-I.D. "Grid connected renewable electricity generation" Version 18.0. Hence, emission from the diesel consumption in the DG set is neglected. As the approach is inline with methodology requirement, have been accepted by assessment team.</p> <p><u>Leakage Emissions:</u></p> <p>As per the Methodology no leakage is anticipated due to the project activity as the generating equipment is not transferred from another activity and hence LE_y is zero.</p> <p><u>Emission Reductions:</u></p> <p>The project activity reduces carbon dioxide emissions through displacement of grid electricity generation with predominantly fossil fuel based power plant⁴ by renewable electricity. The emission reduction (ER_y) due to project activity during a given year y is calculated as the difference between baseline emissions (BE_y), project emissions (PE_y) and leakage emission (LE_y) as per the formulae given below:</p> $ER_y = BE_y - PE_y - LE_y$ $ER_y = 24,408 - 0 - 0 \text{ t CO}_{2e}$ $ER_y = 24,408 \text{ t CO}_{2e} \text{ (Rounded Down)}$
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D.5. Validity of monitoring plan

Means of validation	Assessment team checked the monitoring practice onsite and also checked the requirement of AMS-I.D. "Grid connected renewable electricity generation" Version 18.0 and procedure mentioned in the registered PDD of 1 st CP.
Findings	CAR 05 was raised during the validation process. Please refer Appendix 4 for the complete closure of the CAR.
Conclusion	<p><u>Parameters determined ex-ante:</u></p> <ol style="list-style-type: none"> 1. EF_{grid,OM,y} : = (0.9610 tCO₂/MWh) = Operating Margin emissions factor for grid connected power generation in year y calculated using the latest version of "Tool to calculate the emission factor for an electricity system version 07." EF_{grid, OM, y} is computed using the Simple Operating margin CO₂ emission factor. Simple Operating margin CO₂ emission factor is

calculated from 3-year generation weighted average using data for the years 2015-2016, 2016-2017 & 2017-2018 CO₂ emissions per unit net electricity generation of all power plants serving the system, not including low-cost / must-run. This is in agreement with the guidance provided in the Tool to calculate the emission factor for an electricity system. **The value is considered from CEA version 14.** The value is fixed ex-ante for the entire duration of 2nd crediting period. As the value is sourced from CEA (publicly available document) no further analysis is required

2. **EF_{grid,BM,y} = (0.8644 tCO₂/MWh)** Build Margin emissions factor for grid connected power generation in year y calculated using the latest version of "Tool to calculate the emission factor version 07 for an electricity system. Build margin emission factor is the generation-weighted average emission factor of all power plants *m* during the most recent year *y* for which generation data is available. **The value is considered from CEA version 14.** The value is fixed ex-ante for the entire duration of 2nd crediting period. As the value is sourced from CEA (publicly available document) no further analysis is required
3. **EF_{grid,CM,y} := (0.8885 tCO₂/MWh)** Combined Margin emissions factor for grid connected power generation in year y calculated using the latest version of "Tool to calculate the emission factor for an electricity system version 07." Combined Margin is computed using the official data sources and is in-line with the guidance provided in the tool. **The value is considered from CEA version 14.** The combined margin emissions factor is calculated as follows:

$$EF_{grid,CM,y} = EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$$

Where:

EF_{grid,BM,y}= Build margin CO₂ emission factor in year y (tCO₂/MWh)

EF_{grid,OM,y}= Operating margin CO₂ emission factor in year y (tCO₂/MWh)

W_{OM} = Weighting of operating margin emissions factor (%) = 25%

W_{BM} = Weighting of build margin emissions factor (%) = 75%

The above weighing is as per "Tool to calculate the emission factor for an electricity system", version 07.0.0 for other projects (Hydro in this case) and for second crediting period. The value is fixed ex-ante for the entire duration of 2nd crediting period. As the value is sourced from CEA (publicly available document) no further analysis is required.

Parameters determined ex-post:

$EG_{PJ,y} = EG_{PJ,facility,y}$ = Net electricity supplied to grid by the project activity in year y

The value for the parameter will be sourced from the primary source i.e. Monthly Joint Meter Reading report (Form B) of main and check meters of both line 1 and line 2 located at Transformer Yard of the project site. The primary source will be used for emission reduction calculation for the entire duration of 2nd CP. The practice is as per the 1st CP registered PDD and approved methodology. One set of main and check meters at line 1 and one set of main and check meters at line 2 located at the Transformer Yard of the project site. Representative of KPTCL and representative of PP will take the monthly reading of both the main and check meters jointly. The monthly net energy export to the grid is calculated by deducting the total energy import from grid through line 1 and line 2 from total energy export to grid through line 1 and line 2. The net energy exported to grid is calculated by subtracting total energy import from total energy export and adjusting transmission losses as presented in the Joint Meter Reading report, which is used for baseline emission calculation.

The main meter and check meters will be sealed under in the presence of representatives of Project Proponent and KPTCL. The main and check meters are Bi-directional tri vector meters and with an accuracy class of 0.2S. The Backup

	<p>meters are used for cross checking.</p> <p>The main and check meters shall be calibrated once in a year.</p> <p>The data will be archived electronically for a minimum of two years after the end of the crediting period or the last issuance of CERs for this project activity, whichever occurs later.</p>
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D.6. Crediting period

Means of validation	The crediting period is checked as per UN home page (reference number : 0923 and discussion with Client.
Findings	CAR 06 was raised and closed successfully.
Conclusion	This is 2 nd renewable crediting period and the duration is 7-year renewable (2 nd CP duration: (24/03/2014 to 23/03/2021).

D.7. Project participants

Means of validation	The project participant names were checked from UN homepage https://cdm.unfccc.int/Projects/DB/RWTUV1171023572.57/view							
Findings	CAR 07 was raised and closed successfully .							
Conclusion	At the time of CDM registration- 1 st Crediting period, the PP name was SLS Power Industries Ltd.. However, PP name has now been changed to M/s Bhoruka Power Corporation Limited. The PPhas also obtained the new Host Country Approval letter from the DNA- India dated 05/02/2010 number 4/17/2006-CCC. The updated MoC from UNFCCC web site is checked and assessment team confirm that the changed PP is reflected in the updated MoC ⁵ . There is no change in the MOC as informed by PP.							
	The detail of the PP is as follows:							
	<table><tr><th>Parties involved</th><th>Project participants</th><th>Indicate if the Party involved wishes to be considered as project participant (Yes/No)</th></tr><tr><td>India (Host)</td><td>M/s Bhoruka Power Corporation Limited</td><td>No</td></tr></table>			Parties involved	Project participants	Indicate if the Party involved wishes to be considered as project participant (Yes/No)	India (Host)	M/s Bhoruka Power Corporation Limited
Parties involved	Project participants	Indicate if the Party involved wishes to be considered as project participant (Yes/No)						
India (Host)	M/s Bhoruka Power Corporation Limited	No						

D.8. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)	Validation report for PRCs	
		Version	Completion date
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents ⁶	N	NA	NA
Corrections	N	NA	NA
Change to the start date of the crediting period	N	NA	NA
Inclusion of a monitoring plan	N	NA	NA
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents	N	NA	NA
Changes to the project design	N	NA	NA
Changes specific to afforestation and reforestation project activities	N	NA	NA

⁵ <https://cdm.unfccc.int/Projects/DB/RWTUV1171023572.57/view>

⁶ Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

SECTION E. Internal quality control

As final step of a validation of the final documentation including the Renewable crediting period validation report and the checklist have to undergo an internal quality control by the technical review committee, i.e. each report has to be finally approved either by the head of the technical review committee or the deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one to avoid any conflict of Interest.

SECTION F. Validation opinion

Applus+ Certification has performed validation of the renewal of the crediting period of the project activity "6.25 MW grid-connected Sattigala Mini Hydel Scheme at SLS Power Industries Ltd in Chamarajanagar District, Karnataka". The validation of the renewal of the crediting period was performed on the basis of UNFCCC criteria and host country criteria, as well as criteria, e.g. AMS-I.D. "Grid connected renewable electricity generation" Version 18.0, given to provide for consistent project operations, monitoring and reporting.

The review of the project design documentation for renewal of crediting period and the subsequent follow-up interviews have provided Applus+ Certification with sufficient evidence to determine the fulfillment of stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM and all relevant host country criteria. The project will hence be recommended by Applus+ Certification for the renewal of the crediting period with the UNFCCC.

Applus+ Certification has received a confirmation from the host Party that the project activity assists it in achieving sustainable development.

By displacing fossil fuel-based electricity with electricity generated from a renewable source, the project results in reductions of CO₂ emissions that are real, measurable and give long-term benefits to the mitigation of climate change. An analysis of the positive list of renewable project demonstrates that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of annual emission reductions of 24,408 tCO₂e.

The validation of the renewal of the crediting period has been performed following the requirements of the latest version of the CDM validation and verification standard for project activities, version 02 and on the basis of the contractual agreement. The single purpose of this report is its use during the registration process as part of the CDM/UNFCCC project cycle.

Appendix 1. Abbreviations

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction(s)
CEA	Central Electricity Authority
CL	Clarification request
CMS	Central Monitoring system
CP	Crediting period
CM	Combined Margin
CMS	Central Monitoring system
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EF	Emission Factor
ER	External Resource
EIA	Environmental Impact Assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming potential
IR	Internal Resource
KPTCL	Karnataka Power Transmission Corporation
OR	Outside resource
OEM	Original Equipment manufacturer
OM	Operating Margin
PP	Project Participant

Appendix 2. Competence of team members and technical reviewers

1. Dr. Atul Takarkhede counts with 9 years of experience in field of Environmental Auditing, consulting and accreditation. He is an Expert in ISO 9001-14001, CO2/GHG Reporting, Carbon Foot Print, Energy, Water and Waste Management Reporting for organizations environmental performance. His professional portfolio is mainly related with carrying out EIA, conducting QA/QC of EIA Reports; Conducting Environmental/water Audits; NABET requirements appliance. Furthermore, he counts with solid experience on CDM-VCS-GS consultancy and auditing. He has Ph.D. (Environmental Science) from Institute of Science, RTM Nagpur University, Nagpur, and he has already published different technical reports related to environmental science
2. Denny Xue; Mr. Denny Xue has a Bachelor's Degree on Thermal Energy Engineering and Master's Degree on Environmental Engineering. He has more than 10 years of experience on CDM project development. Before he joined Applus+ LGAI, he has been worked for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development. He is working with Applus+ since 2011 carrying out Validation and verification for CDM/GS/VCS project under scope 1 and 13 as auditor, lead auditor, technical expert and technical reviewer.

Appendix 3 Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	NA	Contract of the project participant with the DOE	Contract document signed between PP and DOE	Project participant
2	NA	Technical specifications of hydro power plant and other equipments	Manufacturer technical specifications	Project participant
3	NA	Draft updated PDD for RCP version 3.1 PDD based on which opinion is provided- Version 3.3	18/11/2019 26/11/2019	Project participant
4	NA	Estimated Emission reduction calculation sheet- version 01 Estimated Emission reduction calculation sheet- version 02	18/11/2019 26/11/2019	Project participant
5	NA	AMS-I.D. "Grid connected renewable electricity generation" Version 18.0	UNFCCC CDM web site	UNFCCC
6	NA	Ministry of Environment and forest: www.envfor.nic.in UNFCCC www.cdm.unfccc.int CEA: Central electricity authority www.cea.nic.in	Reference link is provided.	Independent Search
7	NA	Tools/ guidelines used in the project activity: <ul style="list-style-type: none"> • Clarification on national and/or sectoral policies Para 27 EB 55. • Tool to determine the remaining lifetime of the project activity in line with Annex 15 EB 50. • Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion, Version 3. • Tool to calculate the emission factor for an electricity system version 07. • Assessment of the validity of the original / current baseline and update of the baseline at the renewal of the crediting period." 	UNFCCC CDM web site	UNFCCC

		(Version 03.0.1).		
8	NA	Commission Certificate for hydro Power plant	Commissioning certificate as provided by 3 rd party	Project participant
9	NA	Sample JMR copies for the power plant		

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

Table 1. CL from this validation

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

Table 2. CAR from this validation

CAR ID	01	Section no.	D.1	Date : 23/11/2019
Description of CAR				
1. Updation of the registered PDD for renewal of crediting period is not inline with the guidelines of CDM project standard for project activities, version 02; para 278-291. Updations carried out in track changes with respect to RCP are not traceable with registered PDD. Corrections requested.				
2. Section A.6 of the updated PDD lacking information on the post registration changes details.				
Project participant response				Date : 26/11/2019
1. PDD version has been corrected in accordance with 1 st CP registered PDD				
2. Reference of post-registration changes has been included in section A.6 of PDD				
Documentation provided by project participant				
PDD Version 3.3				
DOE assessment				Date: 26/11/2019
1. PDD version has been corrected in accordance with 1 st CP registered PDD and PDD is completed inline with the guidelines to complete PDD appropriately for RVP.				
2. Reference of post-registration changes has been included in section A.6 of PDD. CAR closed.				

CAR ID	02	Section no.	D.1	Date : 23/11/2019
Description of CAR				
PP requested to submit Sample JMRs, logbooks etc. for all parameters required to be monitored inline with the meth requirements for the project activity.				
Project participant response				Date : 26/11/2019
Supporting documents have been provided				
Documentation provided by project participant				
Sample JMRs, Invoices and logbooks				
DOE assessment				Date: 26/11/2019
PP have submitted required documents thus CAR closed.				

CAR ID	03	Section no.	D.4	Date : 23/11/2019
Description of CAR				
DG set project emissions are neglected vide applied meth AMS-I.D. para 39 . Corrections requested in the PDD and ER sheet.				
Project participant response				Date : 26/11/2019
DG set is used very negligible in the 2 nd CP in the project activity. Thus project emissions from DG are now neglected inline with meth requirement.				

Documentation provided by project participant	
<i>PDD version 3.3</i>	
DOE assessment	Date: 26/11/2019
PDD have been updated appropriately now. Thus CAR closed.	

CAR ID	04	Section no.	D.4	Date : 23/11/2019
Description of CAR				
<i>Value of the net electricity generated by the project activity considered for baseline emission calculations is not matching with the registered PDD. Corrections requested.</i>				
Project participant response				Date : 26/11/2019
<i>Correction has been made as per the annual generation mentioned in 1st CP registered PDD</i>				
Documentation provided by project participant				
<i>PDD Version 3.3</i>				
DOE assessment				Date: 26/11/2019
Value of net electricity generation is now matching with registered PDD. CAR closed.				

CAR ID	05	Section no.	D.5	Date : 23/11/2019
Description of CAR				
<i>Monitoring & recording frequency of the parameter EG_y is not inline with site practices. Further, section B.7.1 of the updated PDD includes ex-ante parameters. Corrections requested.</i>				
Project participant response				Date : 26/11/2019
<i>1. Monitoring & Recording frequency of parameter EG_y has been revised in the PDD</i>				
<i>2. Section B.7.1. has been revised with exclusion of ex-ante parameter and inclusion of that in section B.6.2</i>				
Documentation provided by project participant				
<i>PDD Version 3.3</i>				
DOE assessment				Date: 26/11/2019
PDD have been revised and the Monitoring & recording frequency of the parameter EG _y is now corrected. Section B.7.1 of the PDD also revised appropriately. CAR closed.				

CAR ID	06	Section no.	D.6	Date : 23/11/2019
Description of CAR				
<i>Crediting period number is missing in section C.3.1 of the updated PDD. Corrections requested.</i>				
Project participant response				Date : 26/11/2019
<i>Crediting period number included in the PDD section C.3.1</i>				
Documentation provided by project participant				
<i>PDD Version 3.3</i>				
DOE assessment				Date: 26/11/2019
Section revised appropriately. CAR closed.				

CAR ID	07	Section no.	D.7	Date : 23/11/2019
Description of CAR				
<i>PP requested to submit updated MOC for the project activity if applicable.</i>				
Project participant response				Date : 26/11/2019
<i>There is no change in MoC</i>				
Documentation provided by project participant				
<i>NA</i>				
DOE assessment				Date: 26/11/2019
As MOC available on UNFCCC webpage is valid, no updated MOC required. CAR closed.				

Table 3. FAR from this validation

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

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: <ul style="list-style-type: none">• Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN) and version 02.0 of the “CDM project cycle procedure for project activities” (CDM-EB93-A06-PROC);• Make editorial improvements.
02.0	31 October 2017	Revision to align with the requirements of the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Renewal of crediting period Keywords: crediting period, project activities, validation report		