




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	Enercon Wind Farm (Hindustan) Ltd in Karnataka
Reference number of the project activity	1259
Version number of the verification and certification report	1.1 Aa
Completion date of the verification and certification report	17/10/2016
Monitoring period number and duration of this monitoring period	7 th Monitoring Period: 01/01/2015 to 31/05/2016 (including both days)
Version number of monitoring report to which this report applies	2
Crediting period of the project activity corresponding to this monitoring period	27/10/2008 – 26/10/2018
Project participant(s)	M/s Wind World (India) Limited (previously known as (Enercon (India) Ltd)
Host Party	India
Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)	Sectoral Scope: 1: Energy industries (renewable - / non-renewable sources) Applied Methodology: ACM0002, Version 06
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the registered PDD	210, 848 (t CO ₂ e)
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	120, 230 (t CO ₂ e)
Name of DOE	RINA Services
Name, position and signature of the approver of the verification and certification report	Laura SEVERINO – Sector Manager Sustainability, Environment & Climate Change 

SECTION A. Executive summary

>> Purpose and general description and location:

The project activity is installation of 68.8 MW wind power project ("Project") by Enercon Wind Farm (Hindustan) Ltd. in Karnataka state of India to provide reliable, renewable power to the Karnataka state electricity grid which is part of the Southern regional electricity grid. The Project will lead to reduced greenhouse gas emissions because it displaces electricity from grid connected fossil fuel based electricity generation plants. The project activity consists of 86 WEGs of Enercon make E-48 and each machine capacity is of 800 kW (E-48) totalling to the capacity of 68.8 MW. The WEGs generates 3-phase power at 400V, which is stepped up to 33 kV and connected to 33kV metering points. From 33 kV metering point electricity transmitted to Wind World (India) Limited (hereafter referred as "WWIL") Sub-station. At sub-station electricity is step-up to 220 kV. From WWIL substation electricity is further evacuated to the state electricity grid at 220kV. The Project can operate in the frequency range of 47.5–51.5 Hz and in the voltage range of 400 V \pm 12.5%. The main purpose of the project activity is to generate electrical energy through sustainable means using wind power resources, to utilize the generated output for selling it to the state electricity utility and to contribute to climate change mitigation efforts.

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 latest version of the CDM Validation and Verification Standard, 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:

M/s Wind World (India) Limited has commissioned RINA to carry out the verification and certification of emission reductions reported for the registered "Enercon Wind Farm (Hindustan) Ltd in Karnataka" project in India, CDM Registration Reference N° 1259, for the period 01/01/2015 to 31/05/2016. The project was validated by Det Norske Veritas (validation report no. 2007-1021, rev no. 03 of 24/10/2008) and it was registered on 27/10/2008 under the CDM registration reference N° 1259. The GHG emission reductions were calculated on the basis of the approved methodology ACM0002, version 06, "Consolidated baseline methodology for grid connected electricity generation from renewable sources" of 19/05/2006 and the monitoring plan included in the registered Project Design Document, version 6.0 of 03/09/2012.

In conclusion, it is RINA's opinion that the project activity "Enercon Wind Farm (Hindustan) Ltd in Karnataka", in "India", as described in the Monitoring Report version 02 of 30/09/2016, meets all relevant requirements for CDM activities and all relevant host Party criteria and correctly applies the baseline and monitoring methodology "ACM0002", "Consolidated baseline methodology for grid-connected electricity generation from renewable sources", version 06 of 19/05/2006. In our opinion the GHG emission reductions reported for the project in the monitoring report 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 and Technical Expert TA 1.2	IR	Menon	Rekha	RINA India Pvt Ltd	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2.	Verifier	IR	Augustus	Cyril	RINA India Pvt Ltd	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>

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	Valoroso	Rita	RINA Central Office
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 errors	low	Human error is likely to occur if the monitoring personnel are not trained well or inexperienced in data recording procedures and monitoring processes.	Wherever there is a greater likelihood of errors and chances of incorrect transfer of data, effective data verification should be done on those days/months data. Noted that the data recording is performed by trained personnel and all the personnel involved in data storage and archiving are undergone training yearly.
2	Design of data management	low	Use of spreadsheets without adequate data control, changes/updates, version tracking, traceability and security	Depending on how data is generated, processed, and reported, place greater emphasis on verifying data captured and processed manually and/or in spreadsheets versus those that are generated from an automated system
3	Manual data	Low	Typographic errors in the	Require the PPs to assess all

			spreadsheets and log books while recording.	the data again and confirm that no further errors are made
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C.2. Consideration of materiality in conducting the verification

In order to detect errors, omissions or misstatements in emission reductions or removals being claimed by project participants in the monitoring report, the materiality have been applied by RINA a per clause 11.2.3 of VVS, Version 09.0 /09/. The project is a large scale CDM project activity and a 2 percent materiality threshold is applied.

- (a) In planning the verification, RINA is able to understand the environment in which the project activity operates, the sources of project emissions within the project boundary and the leakage, the monitoring activities, the equipment used to monitor or measure activity data, the origin and application of data used to calculate or measure the emissions, data flow, the internal quality control system, and the overall organization with respect to monitoring and reporting.
- (b) A verification plan and intensive sampling plan has been designed to minimize risks that a material discrepancy would not be detected. The project activity is a wind power project that exports electricity to the grid. 100% data is available for verification. The data which directly affect emission reduction calculations being "the net electricity supplied to the grid, which is monitored and measured by calibrated energy meters, hence 100% verifiable. The B forms for electricity produced for the parameter net electricity exported to the grid, used in ER calculations were verified 100%. The use of spreadsheets shows the adequate controls related to data updates, version tracking, traceability and security.
- (c) During the course of the verification, no errors related to the materiality threshold of 2 per cent have been identified in the data set. Further, any individual or aggregate errors, omission or misstatement identified, which resulted in discrepancies have been considered material and requested to be corrected.

RINA confirms that the claimed emission reductions are free from material errors, omissions or misstatements, with a reasonable level of assurance, and proceeds with the verification as defined in the verification plan.

SECTION D. Means of verification

D.1. Desk review

The monitoring report, version 01 of 12/07/2016 and version 2 of 30/09/2016 /02/, the emission reduction calculations provided in the form of a spreadsheet (CER calculations sheet.xls) version 01 of 28/09/2016 and CER calculation sheet_V02.xls of version 02 of 30/09/2016 were assessed as part of the verification. In addition the Project Design Document (PDD) /01/ in particular the baseline estimations and the monitoring plan for the project were reviewed. The list of all documents reviewed are referenced during the verification is available in Appendix 3 below.

The monitoring report version 01 of 12/07/2016mmmyyy was made publicly available on the CDM UNFCCC website on 19/07/2016.

D.2. On-site inspection

Duration of on-site inspection: 22/09/2016 to 23/09/2016				
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 composting facility, 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. The values used in the ER calculations were confirmed by means of checking the records provided by the client. 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.	At site	22/09/2016 to 23/09/2016	Rekha Menon

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Kumar	Vinay	WWIL (Technical Service Incharge)	22-23/09/2016	1. Project implementation, status , construction and actual operation. 2. Moniotring plan and moniotring parameters for this monitroing period. 3. Emission Redcution calculation. 4. QA/QC procedures 5 .Environmental Impacts	Rekha Menon
2	Borah	Deepjyoti	WWIL-CDM consultant			
3	Khowel	Mahesh	WWIL (Junior Engineer Technicain)			
4	-	Madhu	WWIL Supervisor			
6	-	Savitha	Assistant teacher- M.H.P.S G.Gollarahatti	22/09/2016	Stakeholder consultation and project benefits to community, project impacts on the environment, safety and health issues.	
7	-	Yogesh	Assistant teacher – High school	22/09/2016		

D.4. Sampling approach

N/A

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			
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	1		
Assessment of data and calculation of emission reductions or net removals	1		
Others (please specify)			
Total	2		

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

Means of verification	To check the compliance of the monitoring report with the latest monitoring report form available at UNFCCC
Findings	N/A
Conclusion	The latest version of MR form available at UNFCCC is 05.1 and the same has used by the project proponent in the monitoring report. RINA confirms that the above MR is based on the currently valid MR template /14/ and is completed in accordance with the applicable instruction /15/.

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

This is the 7th verification report and based on the previous verification report /05/, no FAR was raised during the verification.

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

Means of verification	RINA has performed a site visit to verify the real implementation of the project against the description in its registered CDM PDD/01/ and found that the project implementation is in accordance with the registered PDD/01/. The project activity consists of 86 WEGs of Enercon make E-48 and each machine capacity is of 800 kW (E-48) totalling to the capacity of 68.8 MW, which is located in the state of Karnataka, India. The capacity of the project has been confirmed from the commissioning certificates, referred in the verification report /05/. The same was also cross checked during the site visit and confirmed to be in order. The quantum of energy exported to the grid and imported from the grid is confirmed from the Join meter reading reports issued to the PP/11/; this is in line with the registered PDD /01/. The same has been cross checked with the monthly electricity sales invoices raised by PP /12/.
Findings	N/A
Conclusion	The project is fully implemented according to the description presented in the PDD, which is discussed above. RINA confirms, through physical inspection at site that all features of the CDM project activity including the equipment's, data collecting systems and storage have been implemented in accordance with the registered PDD. The project activity is completely operational and the same has been confirmed on-site.

E.4. Post-registration changes

N/A

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

N/A

E.4.2. Corrections

N/A

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

N/A

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

N/A

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

N/A

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

N/A

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

N/A

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

Means of verification	During the monitoring period it was noted that the parameters (also discussed in detail in section E.6.2) monitored and the monitoring plan was found as per the applied methodology. There is no deviation observed between monitoring plan of the project activity with the monitoring plan of the applied methodology of the project activity and "Tool to Calculate the emission Factor for an Electricity System"..
Findings	N/A
Conclusion	There is no deviation observed between monitoring plan of the project activity with the monitoring plan of the applied methodology of the project activity. All monitoring parameters, monitoring and calibration procedures follow the methodology requirements. No recommendation was made during this verification.

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

The monitoring has been carried out in accordance with the monitoring plan contained in the approved revised 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 and parameters fixed ex-ante as listed in the monitoring report have been crosschecked and reviewed as applicable against the registered PDD, monitoring plan as well as against the applied methodology and other relevant CDM documentation.			
	DATA/PARAMETER Unit	Source of data	Reported value for the project period	Assessment/Observation
	EF_{OM,y} , Operating margin CO ₂ emission factor of the grid in year y	CO ₂ Baseline Database for the Indian Power Sector, Version 6, CEA /01/, /04/	1.00338	The value is ex-ante fixed for the 10 years crediting period as per the registered PDD /01/, which has been justified and validated by validation DOE /04/ to follow the applied methodology and tool and already approved by EB.
	EF_{BM,y} , Build margin CO ₂ emission factor of the grid in year y	CO ₂ Baseline Database for the Indian Power Sector, Version 6, CEA /01/, /04/	0.71799	The value is ex-ante fixed for the 10 years crediting period as per the registered PDD /01/, which has been justified and validated by validation DOE /04/ to follow the applied methodology and tool and already approved by EB.
	EF_{CM,y} , Combined Margin emission factor of the grid in year y	CO ₂ Baseline Database for the Indian Power Sector, Version 6, CEA /01/, /04/	0.93204	The value is ex-ante fixed for the 10 years crediting period as per the registered PDD /01/, which has been justified and validated by validation DOE /04/ to follow the applied methodology and tool and already approved by EB.
Findings	N/A			
Conclusion	RINA is able to confirm that the Data and parameters fixed ex ante have been implemented in full compliance with the revised monitoring plan and that they are the same used at the validation stage and in the previous verifications.			

E.6.2. Data and parameters monitored

Means of verification	Data/Parameter		EG _y																																									
	Data Unit		MWh																																									
	Description		Net electricity supplied to the grid by the Project																																									
	Source of data to be used		Electricity supplied to the grid as per two joint meter readings (Form B) taken at 33 kV metering point /11/.																																									
	Value of monitored parameter for the monitoring period		128997.71 MWh																																									
	Monitoring equipment		<table><tr><th>Parameter</th><th>Type of meter</th><th>Meter description</th><th>Meter Serial No.</th><th>Make</th><th>Accuracy class</th></tr><tr><td rowspan="2">KBCWP-01 (68.8 MW)</td><td rowspan="2">220 kV Bulk meter</td><td>Main Meter</td><td>13191156</td><td>L&T</td><td>0.2</td></tr><tr><td>Check Meter</td><td>14194655</td><td>L&T</td><td>0.2</td></tr><tr><td rowspan="2">KBCWP-02 (56.8 MW)</td><td rowspan="2">33 kV billing meter</td><td>Main Meter</td><td>5389967</td><td>L&T</td><td>0.2</td></tr><tr><td>Check Meter</td><td>5389970</td><td>L&T</td><td>0.2</td></tr><tr><td rowspan="2">KBCWP-03 (12 MW)</td><td rowspan="2">33 kV billing meter</td><td>Main Meter</td><td>5463844</td><td>L&T</td><td>0.2</td></tr><tr><td>Check Meter</td><td>5463845</td><td>L&T</td><td>0.2</td></tr></table>						Parameter	Type of meter	Meter description	Meter Serial No.	Make	Accuracy class	KBCWP-01 (68.8 MW)	220 kV Bulk meter	Main Meter	13191156	L&T	0.2	Check Meter	14194655	L&T	0.2	KBCWP-02 (56.8 MW)	33 kV billing meter	Main Meter	5389967	L&T	0.2	Check Meter	5389970	L&T	0.2	KBCWP-03 (12 MW)	33 kV billing meter	Main Meter	5463844	L&T	0.2	Check Meter	5463845	L&T	0.2
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	Accuracy of the monitoring equipment		The main and check meters are of accuracy class of 0.2S which was seen during site visit observation.																																									
	Measuring/Reading/Recording frequency		EG _y is recorded monthly. However, since the electricity export and import is continuously monitored and monthly recorded and EG _y is calculated based on the directly measured values of EG _{Import} and EG _{Export} , the same is acceptable.																																									
Calcualtion method (if applicable)		<p>The value is calculated using the directly measured values of EG_{Import} and EG_{Export}.</p> <p>$EG_y = EG_{\text{export}} - 115\% * EG_{\text{import}} - \text{Transmission Loss (T}_E\text{)}$</p> <p>The electricity supplied to the grid is recorded by taking two joint meter readings (Form B) at 56.8 MW and 12 MW at 33kV metering point in the presence of representatives of state utility and WWIL. The joint meter readings (Form B) contains the value of energy exported, energy imported, transmission loss and net electricity supplied to the grid during the monitoring period. The net electricity supplied to the grid is calculated by the transmission/distribution utility by subtracting the transmission losses from recorded meter readings in accordance with the Power Purchase Agreement /05/. The joint meter readings (Form B) are certified by the Executive Engineer of the state utility and WWIL. These certified readings are then used to prepare the invoices to be raised on BESCOM. Thus as discussed in the registered PDD, the net electricity supplied to the grid as mentioned in the joint meter readings (Form B) was crosschecked with the value mentioned in the invoices /12/ and the same was found to be acceptable. The values were further cross checked with the generation data recorded at 220 kV sub-station and found to be consistent.</p>																																										
Data/Parameter		EG _{export}																																										
Data Unit		MWh																																										
Description		Summation of electricity Export recorded at meters (two main and two check) connecting 86 machines of the project activities and can be sourced from two joint meter readings (Form B).																																										

	issued by BESCO for 56.8 MW and 12 MW at 33 kV metering point																											
Source of data to be used	Electricity supplied to the grid as per two joint meter readings (Form B) taken at 33 kV metering point /11/.																											
Value of monitored parameter for the monitoring period	130208.30 MWh																											
Monitoring equipment	<table border="1"> <thead> <tr> <th>Parameter</th><th>Type of meter</th><th>Meter description</th><th>Meter Serial No.</th><th>Make</th><th>Accuracy class</th></tr> </thead> <tbody> <tr> <td rowspan="2">KBCWP-02 (56.8 MW)</td><td rowspan="2">33 kV billing meter</td><td>Main Meter</td><td>5389967</td><td>L&T</td><td>0.2</td></tr> <tr> <td>Check Meter</td><td>5389970</td><td>L&T</td><td>0.2</td></tr> <tr> <td rowspan="2">KBCWP-03 (12 MW)</td><td rowspan="2">33 kV billing meter</td><td>Main Meter</td><td>5463844</td><td>L&T</td><td>0.2</td></tr> <tr> <td>Check Meter</td><td>5463845</td><td>L&T</td><td>0.2</td></tr> </tbody> </table>	Parameter	Type of meter	Meter description	Meter Serial No.	Make	Accuracy class	KBCWP-02 (56.8 MW)	33 kV billing meter	Main Meter	5389967	L&T	0.2	Check Meter	5389970	L&T	0.2	KBCWP-03 (12 MW)	33 kV billing meter	Main Meter	5463844	L&T	0.2	Check Meter	5463845	L&T	0.2	
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Accuracy of the monitoring equipment	The main and check meters are of accuracy class of 0.2S which was seen during site visit observation.																											
Measuring/Reading/Recording frequency	continuously monitored and monthly recorded .																											
Calculation method (if applicable)	The electricity supplied to the grid is recorded by taking two joint meter readings (Form B) at 56.8 MW and 12 MW at 33kV metering point in the presence of representatives of state utility and WWIL. The joint meter readings (Form B) contains the value of energy exported, energy imported, transmission loss and net electricity supplied to the grid during the monitoring period. The net electricity supplied to the grid is calculated by the transmission/distribution utility by subtracting the transmission losses from recorded meter readings in accordance with the Power Purchase Agreement /05/. The joint meter readings (Form B) are certified by the Executive Engineer of the state utility and WWIL. These certified readings are then used to prepare the invoices to be raised on BESCO. Thus as discussed in the registered PDD, the net electricity supplied to the grid as mentioned in the joint meter readings (Form B) was crosschecked with the value mentioned in the invoices /12/ and the same was found to be acceptable. The values were further cross checked with the generation data recorded at 220 kV sub-station and found to be consistent.																											

Data/Parameter	EG_{import}																										
Data Unit	MWh																										
Description	Summation of electricity Export recorded at meters (two main and two check) connecting 86 machines of the project activity and can be sourced from two joint meter readings (Form B) issued by BESCO for 56.8 MW and 12 MW at 33 kV metering point																										
Source of data to be used	Electricity imported from the grid as per two joint meter readings (Form B) taken at 33 kV metering point /11/.																										
Value of monitored parameter for the monitoring period	107.71 MWh																										
Monitoring equipment	<table border="1"> <thead> <tr> <th>Parameter</th><th>Type of meter</th><th>Meter description</th><th>Meter Serial No.</th><th>Make</th><th>Accuracy class</th></tr> </thead> <tbody> <tr> <td rowspan="2">KBCWP-02 (56.8 MW)</td><td rowspan="2">33 kV billing meter</td><td>Main Meter</td><td>5389967</td><td>L&T</td><td>0.2</td></tr> <tr> <td>Check Meter</td><td>5389970</td><td>L&T</td><td>0.2</td></tr> <tr> <td rowspan="2">KBCWP-03 (12 MW)</td><td rowspan="2">33 kV billing meter</td><td>Main Meter</td><td>5463844</td><td>L&T</td><td>0.2</td></tr> <tr> <td>Check Meter</td><td>5463845</td><td>L&T</td><td>0.2</td></tr> </tbody> </table>	Parameter	Type of meter	Meter description	Meter Serial No.	Make	Accuracy class	KBCWP-02 (56.8 MW)	33 kV billing meter	Main Meter	5389967	L&T	0.2	Check Meter	5389970	L&T	0.2	KBCWP-03 (12 MW)	33 kV billing meter	Main Meter	5463844	L&T	0.2	Check Meter	5463845	L&T	0.2
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Accuracy of the monitoring	The main and check meters are of accuracy class of 0.2S which																										

	equipment	was seen during site visit observation.
	Measuring/Reading/Recording frequency	continuously monitored and monthly recorded .
	Calculation method (if applicable)	The electricity supplied to the grid is recorded by taking two joint meter readings (Form B) at 56.8 MW and 12 MW at 33kV metering point in the presence of representatives of state utility and WWIL. The joint meter readings (Form B) contains the value of energy exported, energy imported, transmission loss and net electricity supplied to the grid during the monitoring period. The net electricity supplied to the grid is calculated by the transmission/distribution utility by subtracting the transmission losses from recorded meter readings in accordance with the Power Purchase Agreement /05/. The joint meter readings (Form B) are certified by the Executive Engineer of the state utility and WWIL. These certified readings are then used to prepare the invoices to be raised on BESCOM. Thus as discussed in the registered PDD, the net electricity supplied to the grid as mentioned in the joint meter readings (Form B) was crosschecked with the value mentioned in the invoices /12/ and the same was found to be acceptable. The values were further cross checked with the generation data recorded at 220 kV sub-station and found to be consistent.
	Data/Parameter	T_E
	Data Unit	MWh
	Description	Transmission loss for export between the metering location at kV point and the metering location at 220 kV at the WW substation.
	Source of data to be used	As per joint meter readings (Form B) taken at 33 kV metering point /11/.
	Value of monitored parameter for the monitoring period	1102.89 MWh
	Monitoring equipment	Not applicable
	Accuracy of the monitoring equipment	Not applicable
	Measuring/Reading/Recording frequency	Monthly recorded .
	Calculation method (if applicable)	The transmission losses are calculated by officials of electric board (EB) and PP has no role in calculation of transmission loss. The calculation considers the export reading of meter at 220 kV and export readings at 33 kV. This is done as per the method discussed in section B.7.2 of the revised PDD /01/. The values are sourced directly from certified joint meter readings (Form B) recorded at 33kV metering point. The same was checked with the ER spread sheets /03/ and found to be acceptable.
Findings	N/A	
Conclusion	<p>The monitoring has been carried out in accordance with the monitoring plan contained in the revised PD. All the parameters were monitored and determined as per the registered monitoring plan. Referring to clause 389-391 of the VVS version 09.0, DOE confirms through site visit verification, from the document review, the actual monitoring system complies with the registered monitoring plan. During the verification, all the relevant monitoring parameters of the registered monitoring plan have been verified with regard to the appropriateness of the verification method; the correctness of the values applied for ER calculation, the accuracy and applied QA/QC measures. It is confirmed that all the monitoring parameters have been measured/determined without material misstatements and are in line with all applicable standards and relevant requirements.</p> <p>All parameters required to be monitored are recorded at the intervals required by the registered</p>	

monitoring plan and applied methodology. On the basis of review of source of nature of available evidences and records, the verification team confirms the quality of evidence for emission reduction provided is sufficient as per VVS, version 09.0.

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

The monitoring period covers from 01/01/2015 to 31/05/2016. Following is the table with calibration dates. Further, RINA team checked the calibration certificates and records of the monitoring equipment as given below:

Parameter	Meter description	Meter Serial No.	Dates of calibration	Due date	Covers the MP
KBCWP-01 (68.8 MW) 220 kV Bulk meter	Main Meter	13191156	20/11/2014 /13/ (previous) 22/02/2016 /13/	21/02/2017	The calibration certificates for the year 2015 is not provided.
	Check Meter	14194655	20/11/2014 /13/ (previous) 22/02/2016 /13/	21/02/2017	
KBCWP-02 (56.8 MW) 33 kV billing meter	Main Meter	5389967	22/08/2014 /13/ (previous) 26/02/2015 /13/ 24/05/2016 /13/	23/05/2017	The calibration doesn't cover the period from 25/02/2016 to 24/05/2016.
	Check Meter	5389970	22/08/2014 /13/ (previous) 26/02/2015 /13/ 24/05/2016 /13/	23/05/2017	The calibration doesn't cover the period from 25/02/2016 to 24/05/2016.
KBCWP-03 (12 MW) 33 kV billing meter	Main Meter	5463844	22/08/2014 /13/ (previous) 26/02/2015 /13/ 24/05/2016 /13/	23/05/2017	The calibration doesn't cover the period from 25/02/2016 to 24/05/2016
	Check Meter	5463845	22/08/2014 /13/ (previous) 26/02/2015 /13/ 24/05/2016 /13/	23/05/2017	The calibration doesn't cover the period from 25/02/2016 to 24/05/2016

Findings	CL1 <ol style="list-style-type: none"> 1. PP is requested to provide the calibration certificates of main and check meters of 220 kV bulk meter for the year 2015. 2. It is also noted that there has been a delay in calibration of 3months from 25/02/2016 to 24/05/2016 for the main and check meters of KBCWP-02 and KBCWP-03. PP is requested to apply the error factor as per the calibration guidelines in the emission reduction calculations. Please refer to appendix A of the report. CL 1 is closed.
Conclusion	RINA confirms that the calibration confirms the proper functioning of the monitoring equipment and is valid for the whole verification monitoring period. Further the measuring equipment's have been calibrated by accredited agencies. This is consistent with registered PDD /01/and VVS /08/

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 "ACM0002", " Consolidated baseline methodology for grid-connected electricity generation from renewable sources /09/, baseline emission of the project is calculated as follows:</p> <p>The baseline is the kWh produced by the renewable generating unit multiplied by an emission coefficient (measured in kg CO₂e/kWh) calculated in a transparent and conservative manner as the weighted average emissions (in kg CO₂e/kWh) as described in revised PDD.</p> <p>BE_y = EG_y * EF_y</p> <p>Where,</p> <p>BE_y is baseline emissions in year y, tCO₂e</p> <p>EG_y is the net electricity supplied to the grid in year y and is applied directly from joint meter readings (Form B) certified by state utility. This value can also be cross checked from monthly invoice /12/</p> <p>The net electricity supplied to grid by the project and EG_{export} and EG_{import} are the only data required for emission reduction calculations and the same are continuously monitored and recorded on monthly basis /01/,/02/,/11/, /12/. These are then transferred to excel spread sheets /03/ which has been used for emission reduction calculations.</p> <p>BE_y = 120, 230 tCO₂e</p>
Findings	<p>CL 2. The net export values for the KBCWP-02 (56.8 MW) 33 kV billing meter for the months January, May, October and December 2015 is not consistent with the B forms. PP is requested to check and correct the same.</p> <p>Please refer to Appendix-4 of the report. CL 2 is closed.</p>
Conclusion	RINA confirms that the baseline emissions have been appropriately calculated and are consistent with site visit observations, the applied methodology, registered PDD and the previous verification reports /09/, /01/, /05/.

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

Means of verification	Since the project activity is a renewable energy project which generates electricity using wind power and hence does not result in project emissions.
Findings	N/A
Conclusion	N/A

E.8.3. Calculation of leakage GHG emissions

Means of verification	Leakage emissions has to be considered only when energy generating equipment is transferred from another activity. Since the project activity employs a new set of equipment/11/, leakage emissions is neglected, which is as per the registered PDD/01/, /11/.
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>According to the applied monitoring methodology “ACM0002” “ Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, version 06 of 19/05/2006 /09/ the emission reductions have been calculated based on the following formula:</p> $ER_y = BE_y - PE_y - LE_y$ <p>Where,</p> <p>ER_y is the total emission reductions of the project activity during the year y in tCO_{2e};</p> <p>BE_y is the baseline emissions for the project activity during the year y in tCO_{2e};</p> <p>PE_y is the emissions for the project activity during the year y in tCO_{2e};</p> <p>LE_y is the leakage emissions for the project activity during the year y in tCO_{2e}.</p> <p>The resulted emission reduction for the monitoring period is 120,230 tCO₂.</p>
Findings	<p>CL 1</p> <ol style="list-style-type: none"> 1. PP is requested to provide the calibration certificates of main and check meters of 220 kV bulk meter for the year 2015. 2. It is also noted that there has been a delay in calibration of 3months from 25/02/2016 to 24/05/2016 for the main and check meters of KBCWP-02 and KBCWP-03. PP is requested to apply the error factor as per the calibration guidelines in the emission reduction calculations. <p>Please refer to Appendix-4 of the report.CL 1 is closed.</p>
Conclusion	<p>The data presented in the monitoring report /01/ and emission reduction worksheet /03/ 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 evidences were 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 registered PDD; - 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 registered PDD, the applied methodology and methodological tool; - Emission factor and default values have been applied in the calculation in accordance with the registered PDD.

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

Means of verification	<p>The emission reductions from the project for the monitoring period as reported in the monitoring report revision 2 of 30/09/2016 /02/ is equivalent to 120,230 tCO_{2e} while the emission reductions estimated ex-ante accounts to 210,848 tCO_{2e}</p>
Findings	<p>CL 1</p> <ol style="list-style-type: none"> 1. PP is requested to provide the calibration certificates of main and check meters of 220 kV bulk meter for the year 2015. 2. It is also noted that there has been a delay in calibration of 3months from 25/02/2016 to 24/05/2016 for the main and check meters of KBCWP-02 and KBCWP-03. PP is requested to apply the error factor as per the calibration guidelines in the emission reduction calculations. <p>Please refer to Appendix-4 of the report.</p> <p>CL 1 is closed.</p>
Conclusion	<p>The actual emission reductions are 42.97% lower than the expectations stated in the registered PDD.</p>

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	120,230 tCO ₂ e
Findings	N/A	
Conclusion	The actual monitoring period does not fall into the first commitment period.	

SECTION F. Internal quality control

>>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

>> RINA Service Spa (RINA) has performed verification of the emission reductions reported for the project activity "Enercon Wind Farm (Hindustan) Ltd in Karnataka" project in India, CDM Registration Reference N° 1259, for the period 01/01/2015 to 31/05/2016, with regard to the relevant requirements for CDM activities.

The project participants of the "Enercon Wind Farm (Hindustan) Ltd in Karnataka" 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 6.0 of 03/09/2012.
- 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

>> It is RINA's opinion that the GHG emission reduction stated in the monitoring report version 2 of 30/09/2016 for the "Enercon Wind Farm (Hindustan) Ltd in Karnataka" project in India for the period 01/01/2015 to 31/05/2016 are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology "ACM0002", "Consolidated baseline methodology for grid-connected electricity generation from renewable sources", version 06 of 19/05/2006 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 01/01/2015 to 31/05/2016 is as follows:

From 01/01/2015 to 31/12/2015 is 95, 698 tCO₂e

From 01/01/2016 to 31/05/2016 is 24, 532 tCO₂e

Appendix 1. Abbreviations

Abbreviations	Full texts
AEPC	Alternative Energy Promotion Centre
BE	Baseline Emissions
BSP	Biogas Support Programme
BUS	Biogas User Survey
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
DONRE	Department of Natural Resource and Environment
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
NGO	Non-governmental Organization
NR	Nepalese Rupee
NRB	Non Renewable Biomass
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
PPA	Power Purchase Agreement
Ref.	Document Reference
RINA	RINA Services Spa
SS(s)	Sectoral Scope(s)
TA(s)	Technical Area(s)
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard
WWIL	Wind World (India) Ltd

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

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 della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	06-03-2008	-
10	22-12-2014	Update qualification according to AS ver.6.0

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: **Amalorpavanathan Cyril Augustus Arokiasamy**

We declare that Mr/Mrs/Ms: _____

è qualificato come¹:
is qualified as:

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

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

1.1, 1.2, 3.1, 5.1, 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
3.1	Energy Demand	3
5.1	Chemical industry	5
13.1	Solid Waste and wastewater	13

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	30/06/2010	-
12	22/12/2014	Updated qualification according to AS ver 6.0

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
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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:
We declare that Mr/Mrs/Ms:

Rita Valoroso

è qualificato come/1:
is qualified as:

CDM -TEC, -VAL, -VER, -TL
TECHNICAL REVIEWER

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

1.2, 3.1, 13.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
3.1	Energy demand	3
13.1	Solid Waste and waste water	13

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	18-01-10	-
10	06/04/2016	Update qualification TA 3.1

Il Resp. QPT
Head of QPT

Rita Valoroso

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 Ecologica 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 Ecologica 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	M/s Wind World (India) Limited	CDM-PDD for project activity “ Enercon Wind Farm (Hindustan) Ltd in Karnataka” in India.	version 6.0 of 03/09/2012	PP
2	M/s Wind World (India) Limited	Monitoring report for project activity “ Enercon Wind Farm (Hindustan) Ltd in Karnataka” in India. Monitoring report for project activity “ Enercon Wind Farm (Hindustan) Ltd in Karnataka” in India.	Version 01 of 12/07/2016 Version 02 of 30/09/2016	PP
3	M/s Wind World (India) Limited	Emission reduction calculations provided in the form of a spreadsheet, (CER calculations sheet.xls) Emission reduction calculations provided in the form of a spreadsheet, (CER calculations sheet _V 02.xls)	version submitted 01 on 28/09/2016 version submitted 02 on 30/09/2016	PP
4	Det Norske Veritas	validation report N° 2007-1021	Rev no 03 of 24/10/2008	Others
5	RINA	Verification report 2015-IQ-10-MD	Version 1.1 Aa of 23/03/2015	Others
6	CDM Executive Board	Clean Development Mechanism Project Cycle Procedure	Version 09.0 of 20/02/2015	Others
7	CDM Executive Board	Clean Development Mechanism Project Standard	Version 09.0 of 20/02/2015	Others
8	CDM Executive Board	Clean Development Mechanism Validation and Verification Standard	Version 09.0 of 20/02/2015	Others
9	CDM Executive Board	CDM Executive Board: “ACM0002”, “ Consolidated baseline methodology for grid-connected electricity generation from renewable sources”.	version 06 of 19/05/2006	Others
10	RINA Services SpA:	Stakeholders/Endusers Interview sheet	dated 25/05/2016	RINA
11	BESCOM(Bangalore Electricity Supply Company Ltd)	Joint meter readings 1. (B FORM): Generation details for meter RR No. KBCWP-3 (12 MW) 2. (B FORM): Generation details for meter KBCWP-2 (56.8 MW) 3. (B FORM): Generation details 220 kV substation KBCWP-1 (68.8 MW) KBCWP-2	From 01/01/2015 to 31/05/2016	PP
12	Enercon Wind Farms (Hindusthan) Pvt Ltd:	Invoices for the period 01/11/2013 to 31/12/2014	01/11/2013 to 31/12/2014	PP
13	Bangalore Electricity Supply Company Ltd: Calibration meter test certificate	Se.no: 13191156, 14194655, dated 20/11/2014 and 22/02/2016 Se.no: 5389967, 5389970, dated 22/08/2014, 26/02/2014 and 24/05/2016	-	PP

		Se. no: 5463844, 5463845, dated 22/08/2014, 26/02/2014 and 24/05/2016		
14	CDM Board Executive	CDM Executive Board: F-CDM-MR	version 05.1 of 04/05/2015	-
15	CDM Board Executive	Guideline – Attachment “Instructions for filling out the monitoring report form”.	Version 05.1 of 04/05/2015	-

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

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

FAR ID	NA	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

Table 2. CL from this verification

CL ID	01	Section no.	E.7	Date:	30/09/2016
Description of CL 1					
<ol style="list-style-type: none"> 1. PP is requested to provide the calibration certificates of main and check meters of 220 kV bulk meter for the year 2015. 2. It is also noted that there has been a delay in calibration of 3months from 25/02/2016 to 24/05/2016 for the main and check meters of KBCWP-02 and KBCWP-03. PP is requested to apply the error factor as per the calibration guidelines in the emission reduction calculations. 					
Project participant response					Date: 30/09/2016
<ol style="list-style-type: none"> 1. In the year 2015, calibration was not done for meter serial number 13191156 & 14194655, hence error factor has been applied for month Nov-2015 to Feb-2016. 2. There was delay in calibration of 3 months from 25/02/2016 to 24/05/2016 for the main and check meters of KBCWP-02 and KBCWP-03, therefore error factor has been applied for month Feb-2016 to May-2016. 					
Documentation provided by project participant					
<i>MR & ER Calculation Sheet</i>					
DOE assessment					Date: 03/10/2016
<ol style="list-style-type: none"> 1. The ER spread sheets are revised including the error factor (T&D losses) for the months from 01/11/2015 to 29/02/2016. The same was accepted. 2. The PP has calculated the error factor for (export and import values) the delayed calibration for the months from 01/02/2016 to 31/05/2016. The same was accepted by RINA, since it is as per the "Guidelines for assessing compliance with the calibration frequency requirements, (VVS Version 07.0 para 283 (a))". CL 1 is closed. 					

CL ID	02	Section no.	E.8.1	Date:	30/09/2016
Description of CL 2					
The net export values for the KBCWP-02 (56.8 MW) 33 kV billing meter for the months January, May, October and December 2015 is not consistent with the B forms. PP is requested to check and correct the same.					
Project participant response					Date: 30/09/2016
The net export values for KBCWP-02 (56.8 MW) 33 kV billing meter for the months January, May, October and December 2015 has been corrected in revised version of ER Calculation Sheet.					
Documentation provided by project participant					
<i>ER Calculation Sheet</i>					
DOE assessment					Date: 03/10/2016
The net export values of KBCWP-02, 33 kV billing meter has been corrected for the months of January, May, October and December 2015. CER calculations sheet 02.xls checked and the same was accepted by RINA. CL 2 is closed.					

Table 3. CAR from this verification

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

Table 4. FAR from this verification

FAR ID	N/A	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

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: project activities, verifying and certifying		