




**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 | 50.4 MW wind power project by EN Renewable Energy Pvt. Ltd (4364) |
| Number and duration of the next crediting period | 2 nd , 01/04/2018- 31/03/2025 |
| Version number of the validation report for RCP | 2.0 |
| Completion date of the validation report for RCP | 12/09/2020 |
| Version number of PDD to which this report applies | 7.0 |
| Project participants | EN Renewable Energy Limited |
| Host Party | India |
| Applied methodologies and standardized baselines | ACM0002 Version 20 Standardized baselines: NA |
| Mandatory sectoral scopes | 1: Energy industries (renewable - / non-renewable sources) |
| Conditional sectoral scopes, if applicable | NA |
| Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next crediting period | 104,878 tCO ₂ e |
| Name and UNFCCC reference number of the DOE | TÜV SÜD South Asia Private Limited (E-0005) |
| Name, position and signature of the approver of the validation report |  Milind Shende Manager, Certification Body TÜV SÜD South Asia Private Limited |

SECTION A. Executive summary

TÜV SÜD South Asia Pvt. Ltd. has performed the validation of renewal of crediting period of the aforementioned project activity “50.4 MW wind power project by EN Renewable Energy Pvt. Ltd”. The validation is based on the currently valid documentation of the United Nations Framework Convention on Climate Change (UNFCCC).

The validation process includes three phases:

- Desk review of documents;
- Follow-up interviews with the relevant personnel;
- Resolution of outstanding issues and the issuance of final validation opinion.

The Project Participant is EN Renewable Energy Limited who has developed 50.4 MW wind farm in the state of Karnataka in India. The project activity involved supply, erection, commissioning and operation of 63 machines of rated capacity 800 KW each, with the objective to generate clean energy (electricity) by utilizing potential of wind. The WTGs of the project activity are located in Sunahatti, Ganginahal, Kakti, Kanabargi, Baramanhatti, Nandi and Deshnur villages of Belgaum district in Karnataka.

The project activity utilizes the wind potential for power generation and exports the generated electricity to the grid. The registration date of this project as CDM project activity is 21st March 2011. The first crediting period has ended on 1st April 2011.

In the 2nd renewable crediting period, the grid emission factors have been calculated based on the data published by the Central Electricity Authority in December 2019.

1 Clarification Request (CL) and 2 Corrective Action Requests (CARs) have been raised during the course of validation process of renewable crediting period and has been successfully closed. No FAR has been raised.

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. | Team Leader, Validator & Technical expert | IR | Murty | Eswar | TUV SUD South Asia Pvt Ltd | ✓ | | ✓ | ✓ |
| 2. | Country Expert | IR | Murty | Eswar | TUV SUD South Asia Pvt Ltd | ✓ | | ✓ | ✓ |

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) |
|-----|--------------------|------------------|------------|------------|---|
| 2 | Technical reviewer | EI | Sudheendra | K | TUV SUD South Asia Pvt Ltd |
| 2. | Approver | IR | Shende | Milind | TUV SUD South Asia Pvt Ltd |

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

The information presented in the PDD on the technical design has been assessed for accuracy and completeness using standard auditing techniques including:

- (a) Document review including
 - A review of data and information;
 - Cross checks between information provided in the PDD and information from sources other than those used, the DOE's sectoral or local expertise. If necessary, independent background investigations were performed.
- (b) Follow-up actions including:
 - Interviews with relevant stakeholders in the host country, personnel with knowledge of the project design and implementation;
 - Cross checks between information provided by interviewed personnel (i.e. by checking sources or other interviews) to ensure that no relevant information has been omitted.
- (c) Reference to available information relating to projects or technologies similar to the proposed project activity under validation;

The name of the project participant is EN Renewable Energy Limited is included in the request for renewal of crediting period is consistent with the name stated at UNFCCC website. The same has been validated by the DOE through UNFCCC website and final PDD.

In opinion of TÜV SÜD the project description, as included in the PDD, is accurate and complete; and it provides a correct understanding of the proposed project activity.

A complete list of all documents reviewed is attached as Appendix 3 to this report.

C.2. On-site inspection

| Duration of on-site inspection: NA | | | | |
|------------------------------------|----------------------------|---------------|------|-------------|
| No. | Activity performed on-site | Site location | Date | Team member |
| | | | | |
| | | | | |

The DOE has not conducted the on-site inspection for the validation of renewal of crediting period of this project activity. Since this is a validation of renewal of crediting period and the deadline for submitting the request for renewal is 30th September 2020 as per p.28 of EB 105 report (first crediting period ended by 31st March 2018).

Due to the Covid-19 pandemic and the current travel restrictions within the country, the DOE was unable to conduct the site visit. The DOE has used alternative measures of validation in place of mandatory on-site inspections. This has been done as per the decision taken by CDM-EB on 20 March 2020 and subsequent extension of these alternative measures until 31 December 2020 as per p.26 EB 106. The DOE has used standard auditing techniques as per section 7.1.3 of CDM VVS PA v2.0 to conduct the remote assessment of the PA with the help of web meetings and video conferencing. The interviews and discussions were conducted successfully with the PP and their representatives.

Hence, the DOE concludes that the means used to conduct interviews are sufficient for the purpose of validation of renewal of crediting period of the PA.

C.3. Interviews

| No. | Interviewee | | | Date | Subject | Team member |
|-----|-------------|------------|---|------------|---|-------------|
| | Last name | First name | Affiliation | | | |
| 1. | Jadi | Mahesh | EN Renewable Energy Limited (PP) | 13/08/2020 | PA description, MoC names and consistency Validity of the original baseline- impact of new relevant national and/or sectoral policies and circumstances on the baseline, correctness of the application of the approved methodologies - EF values assessment | Eswar Murty |
| 2 | Beleri | Nagraj | EN Renewable Energy Limited (PP) | 13/08/2020 | PA description, MoC names and consistency Validity of the original baseline- impact of new relevant national and/or sectoral policies and circumstances on the baseline, correctness of the application of the approved methodologies - EF values assessment | Eswar Murty |
| 3 | Sharma | Barun | EKI Energy Services Ltd (PP representative) | 13/08/2020 | PA description, MoC names and consistency Validity of the original baseline- impact of new relevant national and/or sectoral policies and circumstances on the baseline, correctness of the application of the approved methodologies | Eswar Murty |

| | | | | | | |
|---|-----|----------|---|------------|--|-------------|
| | | | | | - EF values assessment | |
| 4 | Das | Kingshuk | EKI Energy Services Ltd (PP representative) | 13/08/2020 | PA description, MoC names and consistency Validity of the original baseline- impact of new relevant national and/or sectoral policies and circumstances on the baseline, correctness of the application of the approved methodologies - EF values assessment | Eswar Murty |

C.4. Sampling approach

Not Applicable.

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 | | | |
| Application and selection of methodologies and standardized baselines | | 1 | |
| Validity of original baseline or its update | | 1 | |
| Estimated emission reductions or net anthropogenic removals | | | |
| Validity of monitoring plan | | | |
| Crediting period | | | |
| Project participants | 1 | | |
| Post-registration changes | | | |
| Others (please specify) | | | |
| Total | 1 | 2 | 0 |

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

| | |
|----------------------------|---|
| Means of validation | TUV SUD has checked the final PDD form provided by the PP against the latest version of the PDD form in order to determine, whether the PDD form is in compliance with it and confirms the following: a) The project participants are mentioned in the relevant sections of the PDD in accordance with the relevant requirements in the Project standard. The names of project participants in the updated PDD are consistent with the names of the project participants available with the UNFCCC. b) The next crediting period of the registered CDM project activity commences on the day immediately after the expiration of the first crediting period. c) The most recent version of the PDD form is used. |
| Findings | No CAR/CL has been raised by audit team. |
| Conclusion | The PDD is compliant with relevant form and guidance as provided by UNFCCC according to the requirement of the project activity. The information transferred to the revised PDD is materially the same as that in the registered PDD. Hence the DOE confirms that the project participants used a later valid version of the PDD form for the updated PDD than the version of the form of the registered PDD in line with CDM VVS PA v2.0. |

D.2. Application and selection of methodologies and standardized baselines

| | |
|----------------------------|--|
| Means of validation | DOE has verified whether the baseline and monitoring methodology applied in the project activity in accordance with the applicable requirements in the Project standard for project activities. The PP has applied the latest methodology version ACM0002 Version 20 in the updated PDD. |
| Findings | CAR 1 has been raised since the PP has not provided the methodology applicability criteria as per latest version. Subsequently PP has revised the PDD to incorporate the criteria as per latest version. |
| Conclusion | TÜV SÜD confirms that the chosen baseline and monitoring methodology is applicable to the project activity. |

D.3. Validity of original baseline or its update

| | |
|----------------------------|---|
| Means of validation | <p>DOE has assessed the validity of the baseline of the project activity as per below. Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period</p> <p>According to the Methodological tool of “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 stepwise procedure to assess the continued validity of the baseline and to update the baseline at the renewal of a crediting period are as follows:</p> <p>Step 1: Assess the validity of the current baseline for the next crediting period</p> <p>According to the procedures approved by the CDM Executive Board, updated PDD is required to incorporate the impact of national and/or sectoral policies and circumstances existing at the time of requesting for renewal of the crediting period on the current baseline emissions, except for the case where the project activity applies the valid version of an applicable standardized baseline that standardizes baseline scenario. The validity of the current baseline is assessed using the following Sub-steps:</p> <p>Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies</p> <p>The baseline scenario identified at the validation of the project activity was 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. It has been checked that there has been no change in the baseline scenario and is in and is in compliance with all the relevant mandatory national and/or sectoral policies. The PP has used the latest available CO₂ Baseline Database (CEA database, version 15) at the time of requesting renewal of the crediting period for establishing the baseline emission factor, which itself considered all the new circumstances with respect to the Sector- wise installed capacity (MW) as on 31/03/2019. Hence, the new circumstances do not have an impact on the baseline emission. As per CEA data (http://www.cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ve_r15.pdf), the fossil fuel based thermal power generation is dominant over the renewable based power generation, thus baseline scenario remains same as original.</p> |
|----------------------------|---|

Step 1.2: Assess the impact of circumstances

The PP has used the latest available CO₂ Baseline Database (CEA database, version 15) at the time of requesting renewal of the crediting period for establishing the baseline emission factor, which itself considered all the new circumstances with respect to the Sector- wise installed capacity (MW) as on 31/03/2019. Hence, the new circumstances do not have an impact on the baseline emission. As per CEA data (http://www.cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ve_r15.pdf), the fossil fuel based thermal power generation is dominant over the renewable based power generation, thus baseline scenario remains same as original. Hence the current baseline remain same and there is no impact if circumstances, existing at the time of requesting renewal of crediting period.

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

As explained in step 1.2 above, the baseline scenario was the electricity import/generation from the power plants connected to the electricity grid. The PA is a green field one and there is no baseline equipment or investment involved in project activity. Therefore this condition is not applicable to the project activity.

Step 1.4: Assessment of the validity of the data and parameters

The validity of the baseline emission factors has been checked and it has been updated in the PDD as per the latest CO₂ baseline data published by the Central Electricity Authority.

Step2: Update the current baseline and the data and parameters**Step 2.1: Update the current baseline**

As per the Step 1 above, the current baseline scenario is still valid as per the methodology ACM0002 Version 20.0. The identified baseline scenario of the proposed project is as follows: • 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.

Also, the baseline emissions for the 2nd crediting period have been updated, without reassessing the baseline scenario. This update was applied in the context of the sectoral policies and circumstances that are applicable at the time of request for renewal of the crediting period. Further information for the updated baseline emissions for the 2nd crediting period can be seen in the PDD. Only the approach used to calculate the baseline emission factor is updated as per the latest version of CEA database available at the time of PDD submission for renewal.

The approved consolidated baseline methodology, ACM0002 Version 20.0, has been used to determine the baseline and the estimation of emission reductions for the applicable crediting period. As referred in the methodology "*Tool to calculate the emission factor for an electricity system*" (version 07.0) has been used to determine continued validity of the baseline based on combined margin (CM) calculations.

| | <p>As per CEA database version 15, the fossil fuel dominated electricity is more than renewable sector and is continuing with same pattern. In light of the above discussion it is to be concluded that in accordance with relevant guidelines stipulated in CDM VVS PA v2.0, national and/or sectoral policies and circumstances had been considered towards formulating the OM & BM baseline scenario. Hence the baseline scenario as applied for the present project activity remains justified.</p> <p>As per the approved consolidated Methodology ACM0002 Version 20.0 para 22: “If the project activity is the installation of a Greenfield power plant, the baseline scenario is 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, as reflected in the combined margin (CM) calculations described in the “Tool to calculate the emission factor for an electricity system”.</p> <p>Step 2.2: Update the data and parameters</p> <p>As stated in Step 1.4 above, all parameters regarding the grid emission factor calculation have been updated for the 2nd crediting period.</p> <table><tr><th>Parameter</th><th>Value</th><th>Source</th></tr><tr><td>EF_{grid,CM,y} Combined margin CO₂ emission factor for the project electricity system in year y</td><td>0.9419 tCO₂/MWh</td><td>Baseline CO₂ Emission Database, Version 15.0, Dec 2019 published by Central Electricity Authority (CEA), Government of India</td></tr><tr><td>EF_{grid,OM,y} Operating margin CO₂ emission factor for the project electricity system in year y</td><td>0.9622 tCO₂/MWh</td><td>Baseline CO₂ Emission Database, Version 15.0, Dec 2019 published by Central Electricity Authority (CEA), Government of India</td></tr><tr><td>EF_{grid,BM,y} Build margin CO₂ emission factor for the project electricity system in year y</td><td>0.8811 tCO₂/MWh</td><td>Baseline CO₂ Emission Database, Version 15.0, Dec 2019 published by Central Electricity Authority (CEA), Government of India</td></tr></table> | Parameter | Value | Source | EF _{grid,CM,y} Combined margin CO ₂ emission factor for the project electricity system in year y | 0.9419 tCO ₂ /MWh | Baseline CO ₂ Emission Database, Version 15.0, Dec 2019 published by Central Electricity Authority (CEA), Government of India | EF _{grid,OM,y} Operating margin CO ₂ emission factor for the project electricity system in year y | 0.9622 tCO ₂ /MWh | Baseline CO ₂ Emission Database, Version 15.0, Dec 2019 published by Central Electricity Authority (CEA), Government of India | EF _{grid,BM,y} Build margin CO ₂ emission factor for the project electricity system in year y | 0.8811 tCO ₂ /MWh | Baseline CO ₂ Emission Database, Version 15.0, Dec 2019 published by Central Electricity Authority (CEA), Government of India |
|--|--|--|-------|--------|---|---------------------------------|--|--|---------------------------------|--|--|---------------------------------|--|
| Parameter | Value | Source | | | | | | | | | | | |
| EF _{grid,CM,y} Combined margin CO ₂ emission factor for the project electricity system in year y | 0.9419 tCO ₂ /MWh | Baseline CO ₂ Emission Database, Version 15.0, Dec 2019 published by Central Electricity Authority (CEA), Government of India | | | | | | | | | | | |
| EF _{grid,OM,y} Operating margin CO ₂ emission factor for the project electricity system in year y | 0.9622 tCO ₂ /MWh | Baseline CO ₂ Emission Database, Version 15.0, Dec 2019 published by Central Electricity Authority (CEA), Government of India | | | | | | | | | | | |
| EF _{grid,BM,y} Build margin CO ₂ emission factor for the project electricity system in year y | 0.8811 tCO ₂ /MWh | Baseline CO ₂ Emission Database, Version 15.0, Dec 2019 published by Central Electricity Authority (CEA), Government of India | | | | | | | | | | | |
| Findings | CAR2 has been raised since the flow diagram did not mention the name of the Grid correctly. PP has revised the PDD. | | | | | | | | | | | | |
| Conclusion | TUV SUD confirms that the validity of the baseline has been assessed as per the requirements of the methodological Tool and CDM VVS PA v2.0. | | | | | | | | | | | | |

D.4. Estimated emission reductions or net anthropogenic removals

| | |
|----------------------------|---|
| Means of validation | DOE has assessed the calculation of GHG emission of the project activity complies with the applied methodology and requirement of the project standard. |
| Findings | No CAR/CL has been raised. |
| Conclusion | The GHG emission calculation of the project activity are as per the applied methodology ACM0002 Version 20.0 |

D.5. Validity of monitoring plan

| | |
|----------------------------|--|
| Means of validation | <p>The project applies the approved monitoring methodology within ACM0002 Version 20.0. The original monitoring plan following the requirements of the CDM methodology was updated based on requirements of the applied methodology.</p> <p>The monitoring plan presented in the PDD complies with the requirements of the applicable methodology. The assessment team has verified all parameters in the monitoring plan against the requirements of the methodology and no deviations have been found. PP has appropriately mentioned the maintenance and calibration frequency of monitoring equipment and monitoring frequency against each monitoring parameter.</p> <p>The procedures have been reviewed by the assessment team through document review and/or interviews with the relevant personnel. The information provided has allowed the assessment team to confirm that the proposed monitoring plan is feasible within the project design. The relevant points of monitoring plan have been discussed with the PPs. Specifically; these points include the location of meters, data management, and the quality assurance and quality control procedures to be implemented in the context of the project.</p> |
| Findings | No CAR/CL has been raised. |
| Conclusion | TÜV SÜD confirms that the PP is able to implement the monitoring plan and the achieved emission reductions can be reported ex-post and verified. |

D.6. Crediting period

| | |
|----------------------------|---|
| Means of validation | <p>The purpose of a validation related to the duration or day of renewal of the crediting period of a project is an assessment according to the VVS PA 2.0 and includes an assessment of an updated PDD in accordance with the relevant sections of the PS related to the duration of renewal of crediting period and in particular to the next crediting period of the registered CDM project activity.</p> <p>The project has been registered on 21/03/2011 and the first renewable crediting period has been started on 01/04/2011 and end date is 31/03/2018. It is also been verified that the next crediting period of the registered CDM project activity commences on the day immediately after the expiration of the current crediting period.</p> |
| Findings | No CAR/CL has been raised by audit team. |
| Conclusion | TUV SUD confirms that the start date and the length of the crediting period are in compliance with the project standard and CDM VVS PA v2.0. |

D.7. Project participants

| | |
|----------------------------|--|
| Means of validation | <p>The name of the project participant is EN Renewable Energy Limited is included in the request for renewal of crediting period is consistent with the name stated at UNFCCC website. https://cdm.unfccc.int/Projects/DB/BVQI1335445590.53/view The same has been validated by the DOE through UNFCCC website, revised MOC and final PDD.</p> |
| Findings | <p>CL 1 has been raised since</p> <ol style="list-style-type: none"> 1. The PP information shows the host country of EN Renewable Energy Ltd as Spain whereas the project is located in India 2. Contact information and address of the PP is shown as Spain, where as in the CDM webpage the Spanish PP has already withdrawn. <p>MoC also shows the PP from Spain.</p> |

| | |
|-------------------|--|
| | PP has revised the contact information in the PDD to show that the host country is India. The PP has corrected the contact information with respect to the PP address and host country and has also initiated for change of MoC form with UNFCCC. The revised Moc form sent to UN has been checked by the DOE. |
| Conclusion | The name of the project participant(s) included in the request for renewal of crediting period is consistent with the name stated at UNFCCC website, the same has been validated by the DOE through UNFCCC website and final PDD. |

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 ¹ | N | | |
| Corrections | N | | |
| Change to the start date of the crediting period of the project activity | N | | |
| Inclusion of a monitoring plan | N | | |
| Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools | N | | |
| Changes to the project design | N | | |
| Changes specific to afforestation and reforestation project activities | N | | |

SECTION E. Internal quality control

Internal quality control within the team is assured by means of a technical review process that takes place after the on-site assessment and after closure of findings. The internal quality control in the verification process is given by the final decision made by the Certification Body.

SECTION F. Validation opinion

TÜV SÜD has performed a validation of the request for renewal of the crediting period of the aforementioned existing CDM project activity. Standard auditing techniques have been used for the validation process. The validation has been performed following the requirements of the latest version of the CDM VVS for PA v 2.0.

The review of the project design documentation, subsequent follow-up interviews, and further verification and validation of references have provided TÜV SÜD with sufficient evidence to determine the validity of the original baseline and to confirm that the estimated emission reductions are in line with the applied methodology. In our opinion, the project meets all relevant UNFCCC requirements and hence TÜV SÜD recommends the renewal of the crediting period of this project.

¹ 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).

Considering that the project is implemented as designed, the project is likely to achieve the estimated amount of annual emission reductions of 104,878 tCO₂e as specified within the final PDD version for the second crediting period. The findings raised during this validation have been closed satisfactorily.

The single purpose of this report is its use during the registration process as part of the CDM project cycle. Based on the work described in this report, nothing has come to our attention that causes us to believe that any project component or issue has not been covered by the validation process.

Appendix 1. Abbreviations

| Abbreviations | Full texts |
|------------------------|---|
| BM | Build Margin |
| CAR | Corrective Action Request |
| CDM | Clean Development Mechanism |
| CDM-EB | CDM Executive Board |
| CER | Certified Emission Reduction |
| CEA | Central Electricity Authority |
| CM | Combined Margin |
| CMP | Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol |
| CO₂e | Carbon dioxide equivalent |
| CR / CL | Clarification Request |
| DNA | Designated National Authority |
| DOE | Designated Operational Entity |
| EF | Emission Factor |
| EIA / EA | Environmental Impact Assessment / Environmental Assessment |
| ER | Emission Reduction |
| FAR | Forward Action Request |
| GHG | Greenhouse Gas(es) |
| GWP | Global Warming Potential |
| IRL | Information Reference List |
| KP | Kyoto Protocol |
| MP | Monitoring Plan |
| MR | Monitoring Report |
| OM | Operational Margin |
| PCP | Project Cycle Procedure |
| PDD | Project Design Document |
| PP | Project Participant |
| PS | Project Standard |
| RCP | Renewable Crediting Period |
| TÜV SÜD | TÜV SÜD South Asia Pvt. Ltd |
| UNFCCC | United Nations Framework Convention on Climate Change |
| VVS | CDM Validation And Verification Standard for Project Activities |

Appendix 2. Competence of team members and technical reviewers



CERTIFICATE OF APPOINTMENT

Mr. Murty, Eswar fulfils the requirements of the Certification Body 'Environment and Energy' of TUV SUD South Asia Pvt Ltd to participate in audits.

| Qualification applicable to | | | | | |
|-----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| Standard | CDM | GS | VCS | ISO-14001-1:2006 | Other |
| | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| Qualification as | | | | | | |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Status | Validator | Verifier | ATL | Technical Reviewer | Financial Expert | Technical Expert |
| | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| TA (s) | 1.1, 1.2, 3.1, 4.1, 13.1 | | | | | |

| Country Expertise | | | | | | |
|-------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------|
| Region | 1 | 2 | 3 | 4 | 5 | Other |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Further countries | | | | | | |

| Technical Area | |
|---------------------------------|--|
| 1.1_Thermal Energy Generation | |
| 1.2_Renewables | |
| 3.1_Energy demand | |
| 4.1_Cement and lime production | |
| 13.1_Solid waste and wastewater | |

This appointment is valid until 31.05.2021 and is bound by internal requirements of the Certification Body 'Environment and Energy' of TUV SUD South Asia Pvt Ltd.

In case of loss of validity of this certificate as per result of an assessment according to internal procedures or due to any other reason, it will be properly communicated to you.

Your Certificate has the internal reference no. CB-IND-CCP-0031/011.

| Date | Signature |
|------------|-----------|
| 01/05/2020 | |

IS-CMS-CB-POG-01/05, version 03

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TUV SUD South Asia ♦ Ankara ♦ Turkey ♦ TÜRKAK, Ankara ♦ Phone: +91 337 ♦ Tel: +91 20 6564 1200 ♦ Fax: +91 20 5654 1281



CERTIFICATE OF APPOINTMENT

Mr. Sudheendra, K fulfills the requirements of the Certification Body 'Environment and Energy' of TÜV SÜD South Asia Pvt Ltd to participate in audits.

| Qualification applicable to | | | | | |
|-----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Standard | CDM | GS | VOS | ISO-14004-1:2006 | Other |
| | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Qualification as | | | | | | |
|------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| Status | Validator | Verifier | ATL | Technical Reviewer | Financial Expert | Technical Expert |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| TA (s) | 1.1, 1.2 | | | | | |

| Country Expertise | | | | | | |
|-------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------|
| Region | 1 | 2 | 3 | 4 | 5 | Other |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Further countries | | | | | | |

| Technical Area | |
|-------------------------------|--|
| 1.1 Thermal energy generation | |
| 1.2 Renewables | |

This appointment is valid until 31.07.2021 and is bound by internal requirements of the Certification Body 'Environment and Energy' of TÜV SÜD South Asia Pvt Ltd.

In case of loss of validity of this certificate as per result of an assessment according to internal procedures or due to any other reason, it will be properly communicated to you.

Your Certificate has the internal reference no. CB-IND-CCP-0104/002.

| Date | Signature |
|------------|-----------|
| 01/09/2020 | |

IS-CMS-CB-POG-01/06, version 03

TÜV[®]

TÜV SÜD South Asia ♦ Scheme: # ♦ Floor: 11 ♦ Road, Sector: ♦ Phone: 411137 ♦ Toll: +91 20 6264 1203 ♦ Fax: +91 20 6264 1281

Appendix 3. Documents reviewed or referenced

| No | Author | Title | References to the document | Provider |
|----|-------------------------------|--|-----------------------------|-------------------------|
| 1 | UNFCCC | https://cdm.unfccc.int/Projects/DB/RINA1295015997.94/view | PA web page | UNFCCC |
| 2 | UNFCCC | Registered PDD | Version 5 21/12/2010 | UNFCCC |
| 3 | UNFCCC | Methodology ACM0002: Grid-connected electricity generation from renewable sources | Version 20 | UNFCCC |
| 4 | UNFCCC | Methodological Tool -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 | UNFCCC |
| 5 | UNFCCC | Rules on relaxation of mandatory site visits by DOEs | 20/03/2020 EB 106 | UNFCCC |
| 6 | UNFCCC | EB 105 Meeting Report | | UNFCCC |
| 7 | UNFCCC | Tool to calculate the emission factor for an electricity system | Version 7 | UNFCCC |
| 8 | UNFCCC | MoC annex | | UNFCCC |
| 9 | EN Renewable Energy Limited | PDD for 2 nd crediting period | Version 7 11/09/2020 | EKI Energy Services Ltd |
| 10 | EN Renewable Energy Limited | ER spreadsheet for 2 nd crediting period | 05/06/2020 | EKI Energy Services Ltd |
| 11 | Central Electricity Authority | CO2 Baseline Database for the Indian Power Sector http://www.cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver15.pdf | Version 15 December 2019 | |
| 12 | Central Electricity Authority | Updated Grid Emission factor calculations | Version 15 December 2019 | |

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

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

NA.

Table 2. CL from this verification

| | | | | |
|---|----|--------------------|------------|-------------------------|
| CL ID | 01 | Section no. | Appendix 1 | Date: 13/08/2020 |
| Description of CL | | | | |
| PP to clarify the same with respect to contact information and MoC | | | | |
| <ol style="list-style-type: none"> The PP information shows the host country of EN Renewable Energy Ltd as Spain whereas the project is located in India Contact information and address of the PP is shown as Spain, where as in the CDM webpage the Spanish PP has already withdrawn. | | | | |
| Project participant response | | | | Date: 04/09/2020 |
| The PP has initiated the process to change the MoC of project. | | | | |
| Documentation provided by project participant | | | | |
| Revised MoC and PDD. | | | | |
| DOE assessment | | | | Date: DD/MM/YYYY |
| The PP has corrected the contact information with respect to the PP address and host country and has also initiated for change of MoC form with UNFCCC. The revised Moc form sent to UN has been checked by the DOE. Hence the issue is closed. | | | | |

Table 3. CAR from this verification

| | | | | |
|---|----|--------------------|-----|-------------------------|
| CAR ID | 01 | Section no. | B.2 | Date: 13/08/2020 |
| Description of CAR | | | | |
| The methodological applicability criteria provided is not according to the latest version 20 of the methodology. PP to make necessary revision as per latest version. | | | | |
| Project participant response | | | | Date: 04/09/2020 |
| The methodological applicability criteria is now revised as per the latest version 20 methodology, in the revised PDD. | | | | |
| Documentation provided by project participant | | | | |
| Revised PDD. | | | | |
| DOE assessment | | | | Date: DD/MM/YYYY |
| Hence the issue is closed | | | | |

| | | | | |
|---|----|--------------------|-----|-------------------------|
| CAR ID | 02 | Section no. | B.3 | Date: 13/08/2020 |
| Description of CAR | | | | |
| The flow diagram shows the Southern Grid. PP to update the same | | | | |
| Project participant response | | | | Date: 04/09/2020 |
| The flow diagram has now been updated in the revised PDD. | | | | |
| Documentation provided by project participant | | | | |
| Revised PDD | | | | |
| DOE assessment | | | | Date: DD/MM/YYYY |
| Hence the issue is closed | | | | |

Table 3. FAR from this verification

NA.

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 | | |