



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

(Version 01.0)

Complete this form in accordance with the "Attachment: Instructions for filling out the validation report form for post-registration changes for CDM project activities" at the end of this form.

## VALIDATION REPORT ON POST-REGISTRATION CHANGES (PRCs)

<b>Title and reference number of the project activity</b>	Wind Power Project by Sargam Retails Pvt. Ltd. in Gujarat, India
<b>Process track</b>	<input checked="" type="checkbox"/> Prior approval <input type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
<b>Version number of the validation report on PRCs</b>	01
<b>Completion date of the validation report on PRCs</b>	25 February 2016
<b>Type(s) of PRCs</b>	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan to a registered project activity <input checked="" type="checkbox"/> Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline <input type="checkbox"/> Changes to the project design of a registered project activity <input type="checkbox"/> Types of changes specific to afforestation and reforestation project activities
<b>Version number of PDD to which this report applies</b>	Version 03, dated 27 January 2016
<b>Project participant(s)</b>	Sargam Retails Pvt. Ltd.
<b>Host Party</b>	India
<b>Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)</b>	Sectoral Scope 1: Energy Industries (renewable - /non renewable sources) Methodology: - AMS-I.D "Grid connected renewable electricity generation" (Version 15, EB 50, valid from 30 <sup>th</sup> October, 2009)
<b>Name of DOE</b>	Perry Johnson Registrar Carbon Emission Services Inc. (PJRCES Inc.)
<b>Name, position and signature of the</b>	Bilal Anwar

approver of the validation report on PRCs

Approver

A handwritten signature in blue ink, appearing to be 'R. J. Smith', is written over a light yellow rectangular background.

**SECTION A. Executive summary**

&gt;&gt;

M/s. Sargam Retails Pvt. Ltd. [Hereafter, referred as PP] commissioned PJRCES Inc. to perform validation of post registration changes for the project titled "Wind Power Project by Sargam Retails Pvt. Ltd. in Gujarat, India" [hereafter referred as "the project"] in India.

The report summarizes the findings of the validation of the revised project design document of the Project activity, performed on the basis of UNFCCC criteria as stated in the current valid version of Validation and Verification Standard (VVS, v9.0), Project Standard (PS, v9.0) and Project Cycle Procedure (PCP, v9.0).

**SECTION B. Validation team, technical reviewer and approver**

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**B.1. Validation team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader	IR	Sharma	Anjana	PJRCDM (I) Pvt. Ltd. (Site office of PJRCES Inc.)	✓		✓	✓

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Anwar	Bilal	PJRCES Inc. (Central office)
2.	Approver	IR	Anwar	Bilal	PJRCES Inc. (Central office)

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

>> The scope of the desk review process is to assess all changes from the project activity as described in the revised project design document, including their negative impact on the estimates of the emissions reductions, the level of accuracy of the monitoring activity, the additionality or scale of the project and the applicability and application of approved methodologies.

The following documents were reviewed as part of the scope of the activity:

- Registered PDD and monitoring plan registered;
- Revised PDD, version 03 dated 27 January 2016;
- Methodology: AMS-I.D "Grid connected renewable electricity generation" (Version 15, EB 50, valid from 30th October, 2009);
- CDM Validation and Verification Standard, version 09.0;

- Clean Development Mechanism Project Cycle Procedure, version 09.0;
- Clean Development Mechanism Project Standard, version 09.0;
- CDM-PRCV-FORM;
- Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board.

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

## C.2. On-site inspection

No On-site inspection has been carried out.

Duration of on-site inspection: DD/MM/YYYY to DD/MM/YYYY				
No.	Activity performed on-site	Site location	Date	Team member
1.	NA	NA	NA	NA
...				

## C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Natu	Rucha	Enking Energy Services Pvt. Ltd. (CDM consultant)	01-15 February 2016	- Proposed changes in the PDD.	Anjana Sharma

## C.4. Clarification requests, corrective action requests and forward action requests raised

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	-	-	-
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline	-	-	-
Corrections	-	-	-
Changes to the start date of the crediting period	-	-	-
Inclusion of a monitoring plan to a registered project activity	-	-	-
Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline	-	-	-
Changes to the project design of a registered project activity	-	-	-
Types of changes specific to afforestation and reforestation project activities	-	-	-
Others (please specify)	-	-	-
<b>Total</b>	<b>0</b>		

## SECTION D. Validation findings

### D.1. Compliance with PDD form

<b>Means of validation</b>	During desk review process, the compliance of the revised PDD (both in tracked-change and clean versions) with the valid version of the applicable PDD form and the Instructions for filling out the PDD form was checked. PP has used the latest version of the PDD form, version 6.0 for the revised PDD. All sections, titles, tables, have been revised and crosschecked against the Instructions for filling out the project design document form for small-scale CDM project activities and they were correct.
<b>Findings</b>	No findings were observed regarding this.
<b>Conclusion</b>	The revised PDD applied the latest PDD template available and the information has been transferred to the new template is materially the same.

**D.2. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline**

Means of validation	NA
Findings	NA
Conclusion	NA

**D.3. Corrections**

Means of validation	NA
Findings	NA
Conclusion	NA

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

Means of validation	NA
Findings	NA
Conclusion	NA

**D.5. Inclusion of a monitoring plan to a registered project activity**

Means of validation	NA
Findings	NA
Conclusion	NA

**D.6. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline**

Means of validation	<p><b><u>Change #01 - Section B.6.2: Data and parameters fixed ex-ante</u></b></p> <p>There is only a minor change in this section to bring in more clarity and also to be in line with the latest CDM-SSC-PDD template. PP has filled the row "Purpose of data" for the following parameters:</p> <ul style="list-style-type: none"> <li>✓ <math>EF_Y</math> - Combined margin grid emission factor</li> <li>✓ <math>EF_{OM,y}</math> - CO<sub>2</sub> Operating Margin emission factor of the grid</li> <li>✓ <math>EF_{BM,y}</math> - CO<sub>2</sub> Built Margin emission factor of the grid</li> </ul> <p><b><u>Change#02 - Section B.7.1 - Data and parameters to be monitored</u></b></p> <p>Following parameters have been removed from the monitoring plan:</p> <ul style="list-style-type: none"> <li>✓ <math>EG_{yTotal}</math> - Net Electricity supplied to grid by all the WTGs (project as well as non-project activities) recorded at the 33/220 kV sub-station. This parameter is monitored and recorded by O&amp;M contractor at the 33/220 kV sub-station. Since this data includes the generation of non-project WTGs as well, hence, owing to security and confidentiality issues, O&amp;M contractor has stopped the practice of sharing the monitored values for this parameter with individual PPs. PP has no control over this practice.</li> <li>✓ <math>EG_{WTG,y}</math> - Net Electricity supplied by the WTGs of SRPL recorded at 33 kV metering yard. This parameter is monitored using metering points at 33 Kv metering yard, however, PP does not have any details regarding the metering details for the project WTGs in 33 Kv metering yard. Hence, PP does not have any details for the monitored values for this parameter for the entire monitoring period.</li> <li>✓ <math>EG_{Total\ WTG,y}</math> - Net Electricity supplied by all the WTGs (project activity and non-project activities) connected to 33/220 kV sub-station recorded at 33 kV metering yard. This data is available, however, is not required for the emission reduction calculations. Hence, it can be removed from the monitoring plan.</li> </ul> <p>It is important to note that the above stated parameters are required only for apportioning of electricity generation by project WTGs and to compare the same with the net electricity as stated in the "Monthly Share Certificates issued by the state electricity authority GETCO/GEDA".</p>
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	<p>Further, the apportioning has always been in the hands of O&amp;M contractor. The same is shared by the O&amp;M contractor with the State electricity Authorities and forms the basis for "Monthly Share Certificates issued by state electricity authority" to individual WTG owners.</p> <p>The removal of above stated parameters is a permanent change.</p>
<b>Findings</b>	No findings observed in this section.
<b>Conclusion</b>	<p>The proposed permanent changes in the registered monitoring plan are identified by PP and the monitoring plan has been revised in line with the actual implementation of monitoring measures and procedures and QA/QC on site. The "Net electricity supplied by project WTGs" derived from the "Monthly Share Certificates issued by state electricity authority" is most authentic as well as conservative value. In PJRCES's opinion, PP does not need to carry out an individual apportioning exercise.</p> <p>None of these changes reduce the level of accuracy of the monitoring compared with the requirements contained in the registered PDD. The same version of the methodology has been considered by the PP. The proposed changes do not lead to any deviation from the applied methodology/tools. The proposed permanent changes are unlikely to lead to a reduction in the accuracy of the calculation of emission reductions</p>

#### D.7. Changes to the project design of a registered project activity

<b>Means of validation</b>	NA
<b>Findings</b>	NA
<b>Conclusion</b>	NA

#### D.8. Types of changes specific to afforestation and reforestation project activities

<b>Means of validation</b>	NA
<b>Findings</b>	NA
<b>Conclusion</b>	NA

### SECTION E. Internal quality control

>> The validation report underwent independent technical review performed by Technical Reviewer qualified in accordance with PJRCES's qualification scheme for CDM Validation and Verification activities.

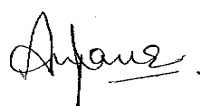
### SECTION F. Validation opinion

>> Perry Johnson Registrars Carbon Emission Services (PJRCES) Inc. has performed the validation of the post registration changes of the project activity "Wind Power Project by Sargam Retails Pvt. Ltd. in Gujarat, India".

The validation was performed on the basis of rules and requirements defined by UNFCCC for the CDM project activities. The review of the revised PDD, supporting documentation and subsequent follow-up actions, has provided PJRCES with sufficient evidence to determine the fulfilment of stated criteria.

The description in the revised PDD Version 03 dated 27/01/2016 meets all relevant UNFCCC requirements for the CDM and correctly applies the selected baseline and monitoring methodology.

This report is the assessment opinion for all the changes that are proposed in the PDD and request is submitted for prior approval by CDM EB.



(Anjana Sharma)  
Team Leader



(Bilal Anwar)  
Approver

## Appendix 1. Abbreviations

Abbreviations	Full texts
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification request
CO <sub>2</sub>	Carbon dioxide
EB	Executive Board
GEDA	Gujarat Energy Development Authority
GETCO	Gujarat Energy Transmission Corporation
MP	Monitoring Plan
O&M	Operation and Maintenance
PCP	Project Cycle Procedure
PJRCES	Perry Johnson Registrars Carbon Emission Services
PDD	Project Design Document
PP	Project Proponent
PS	Project Standard
QA/QC	Quality Assurance and Quality Control
SRPL	Sargam Retails Pvt. Ltd.
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard
WTG	Wind Turbine Generator

## Appendix 2. Competence of team members and technical reviewers

TEAM MEMBER NAME	COMPETENCY /ROLE	EXPERIENCE
Anjana Sharma	Lead Verifier/Sector Expert	Anjana Sharma holds a Bachelor in Chemical Engineering. She has a combined experience of 16 years. Prior to her entry into the CDM world, she worked for 3 years in Chlor-Alkali industry wherein she was involved mainly in the plant operations, energy conservation measures and QMS. During her stint in industry, her technical responsibilities included involvement in day-to-day plant operations, analysis of consumption of different inputs to the Chlor-Alkali process (primarily the raw material, power, fuels like FO/HSD for boilers etc) on daily basis and preparation of consolidated monthly report. Based on that, she, in consultation with Head of Works, would identify the potential areas of improvement and presenting the same to the management. Being the member of Technical Services Cell of the company, she was actively involved in market research for the energy efficient technologies for the Chlor-Alkali process. Apart from above technical part, she was also an internal auditor for ISO 9001. She has been trained as an internal auditor as well as Lead Auditor for QMS (ISO 9001), EMS (ISO 14001) & OSHAS.

		<p>Her experience in CDM includes 10 years in validation and verification of projects in regulated as well as non-regulated market. Prior to joining PJRCMD, she worked as a CDM Validator and Technical Reviewer at another DOE for 4 years. She has handled validation and verification of numerous CDM projects, both in India &amp; abroad in different areas like renewable energy, energy efficiency, waste heat recovery, waste handling and disposal (especially landfill gas recovery and utilization, and waste wind treatment), fuel switch etc.</p> <p>Her sufficient sectoral competence in renewable energy based energy generation, energy efficiency and waste handling and disposal is sufficiently demonstrated through her education qualification, industry experience and experience in CDM.</p>
Bilal Anwar	Technical Reviewer/Approver	<p>Bilal Anwar has over twelve years of experience in International Climate Change Policy, global regimes of greenhouse gas reduction projects and corporate sector greenhouse strategies. A significant part of his experience is in Clean Development Mechanism (CDM) in which he got involved from its inception. He worked in the United Nations Framework Convention on Climate Change Secretariat (UNFCCC) where he was involved in the inter-governmental negotiation process, leading to the agreement on Marrakech Accords, which operationalized the CDM as a global carbon market mechanism. He has been closely involved in the development of CDM methodologies, its regulatory, procedural and legal frameworks in support of the CDM Executive Board. He was the team leader of CDM Accreditation Unit in the secretariat.</p> <p>Subsequently Bilal worked for two years as a Technical Director for ERM certification and Verification Services (DOE) based in London. In this role Bilal worked on the operational and management aspects of the company in order to deliver quality reports in compliance with the regulatory requirements and quality expectations of the CDM Executive Board and undertook review of CDM projects for energy, waste and transport sector.</p> <p>Currently, Bilal is responsible for final approval of CDM reports in Perry Johnson Registrars carbon Emission Services</p>



### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	EKI Energy Services Ltd. (CDM consultant for PP - Sargam Retails Pvt. Ltd.)	"Wind Power Project by Sargam Retails Pvt. Ltd. in Gujarat, India" – Revised PDD (Track Change and Clean Version)	Revised PDD version 03, dated 27 January 2016	EKI energy Services Ltd.
2	CDM Website	Registered information about the project	<a href="https://cdm.unfccc.int/Projects/DB/SGS-UKL1274284964.32/view">https://cdm.unfccc.int/Projects/DB/SGS-UKL1274284964.32/view</a>	Project interface on UNFCCC website.
3	CDM EB	Clean Development Mechanism Validation and Verification Standard, version 09.0	-	Others
4	CDM EB	CDM Executive Board: Clean development Mechanism Project Standard, version 09.0.	-	Others
5	CDM EB	Clean Development Mechanism Project Cycle Procedure, version 09.0.	-	Others
6	CDM EB	CDM-SSC-FORM	-	Others

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

Table 1. CL from this validation

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

Table 2. CAR from this validation

CAR ID	xx	Section no.	Date: DD/MM/YYYY
Description of CAR			
NA			

<b>Project participant response</b>	<b>Date:</b> DD/MM/YYYY
NA	
<b>Documentation provided by project participant</b>	
NA	
<b>DOE assessment</b>	<b>Date:</b> DD/MM/YYYY
NA	

Table 3. FAR from this validation

<b>FAR ID</b>	xx	<b>Section no.</b>		<b>Date:</b> DD/MM/YYYY
<b>Description of FAR</b>				
NA				
<b>Project participant response</b>				<b>Date:</b> DD/MM/YYYY
NA				
<b>Documentation provided by project participant</b>				
NA				
<b>DOE assessment</b>				<b>Date:</b> DD/MM/YYYY
NA				

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory		
Document Type: Form		
Business Function: Registration		
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