



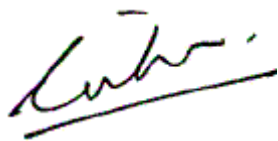
Validation report form for post-registration changes for CDM project activities
(Version 01.0)

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)

Title and reference number of the project activity	Solar Photovoltaic Power Project at Jalgaon, Maharashtra UNFCCC Ref. No. 8464
Process track	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
Version number of the validation report on PRCs	02
Completion date of the validation report on PRCs	04/01/2016
Type(s) of PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline <input checked="" 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 checked="" 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
Version number of PDD to which this report applies	4
Project participant(s)	M/s Jain Irrigation Systems Limited (JISL)
Host Party	India
Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)	SS 1 and TA 1.2, Small Scale; AMS-I.D: Grid connected renewable electricity generation, version 17.0
Name of DOE	URS Verification Private Limited

Name, position and signature of the
approver of the validation report on PRCs



Mukesh Singhal, CEO

SECTION A. Executive summary

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The purpose of the project is to generate clean energy in sustainable means using solar PV modules and to supply to the state electricity utility namely Maharashtra State Electricity Distribution Company Limited (MSEDCL) which is a part of NEWNE grid and to contribute to climate change mitigation efforts and avoid emission of CO₂.

The project activity involves installation of 8.5 MW Solar Photo Voltaic (PV) Power Project at village – Shirsolli in Jalgaon district of Maharashtra. The project activity is a Greenfield project activity and developed by Jain irrigation Systems Limited. The solar PV power plant comprises of Solar PV modules, switch yard, inverters, transformers and evacuation facility etc. The project involves installation of multi-crystalline technology for its 8.5 MW project out of which 7.5 MW is mounted on fixed structure while 1 MW is using tracking mechanism to enhance the isolation period.

The power generated from the project activity is fed to regional grid i.e. NEWNE grid. The project activity was commissioned on 19/06/2012 as verified with commissioning certificate issued by MSETCL and continuously generating and delivering the electricity to NEWNE grid. The PP has chosen renewable crediting period for the project activity which is starting from 15/12/2012 to 14/12/2019. The project activity was registered on UNFCCC on 29/11/2012.

During this monitoring period (15/12/2012 to 14/12/2014 inclusive of both days), the net electricity exported by project is 26,496 MWh to NEWNE grid. Thus, emission reduction occurred during this monitoring period is 25,133 tCO₂.

Scope of validation:

The scope of the validation is the independent and objective review and determination of the corrections in project commissioning date, permanent changes from registered monitoring plan and changes to the project design of a registered project activity. The validation for the above mentioned post registration changes has been carried out along with verification for the monitoring period from 15/12/2012 to 14/12/2014 of the project activity and the corrections in project commissioning date, permanent changes from registered monitoring plan and changes to the project design of a registered project activity do not require prior approval as these are fall in appendix 1 of CDM Project Standard (version 09.0). The project is assessed against the requirements of PCP and VVS.

Due professional care has been exercised and ethical conduct has been followed by the assessment team during the validation of post registration changes. The validation report is a fair presentation of the post registration changes.

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

Validation process and conclusion:

The validation process includes desk review of the “corrections in project commissioning date, permanent changes from registered monitoring plan and changes to the project design of a registered project activity”. Further, onsite assessments and interviews with those involved in project management and operations are conducted. This is followed by preparation of draft validation report summarizing desk review and on-site assessment findings (i.e. CARs, CLs, and FARs). Upon successful closing of the CARs and CLs raised (if any), the final validation report is prepared. The final report then undergoes a technical review and final approval according to URS’s internal quality assurance procedures. The information presented in the “corrections in project commissioning date, permanent changes from registered monitoring plan and changes to the project design of a registered project activity” document provided by the PP was assessed by review of the detailed project documentation especially regarding to reason for corrections in project commissioning date, permanent changes from registered monitoring plan and changes to the project design of a registered project activity, as well as by interviews with personnel at Jain Irrigation System Limited, observation of

established monitoring practices and assessment of the reliability of monitoring equipment. This has enabled the validation team to assess and determine that the deviation is in compliance with CDM Project standard and relevant guidance provided by the Board.

URS confirms the following has been reviewed:

- (a) The registered PDD, including the monitoring plan and the corresponding validation report;
- (b) Monitoring report and emission reduction estimation;
- (c) The applied monitoring methodology;
- (d) Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board;
- (e) All information and references relevant to the project activity's resulting in emission reductions.

The three changes observed do not require prior approval of the CDM EB. Thus, URS is able to confirm that:

- The change in commissioning date is due to the typographical error made in registered PDD. Thus, in line with para 148 b (1) and 158 of Project Cycle Procedure (PCP) EB 82, Annex 15, the change in revised PDD are submitted for acceptance of the Board as a part of request for issuance. This change is in line with para 1 of Appendix 1 of CDM project Standard and fall under the category of changes that do not require prior approval of the Board.
- In line with para 325 and 326 of VVS, the changes to project design of registered project activity i.e. change from wheeling of generated electricity for captive purpose at JISL premises to sale to grid as PP has signed a power purchase agreement with MSEDCL, do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.
- In line with para 316 of VVS, the permanent changes from registered monitoring plan i.e. change in calibration frequency from once in three years to annually mentioned in registered monitoring plan, do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan. The changes are in compliance with the applied methodology.

The permanent changes to the monitoring plan, corrections in PDD and change in project design which do not require prior approval are submitted alongwith request for issuance in line with para 158 of Project Cycle Procedure. These changes are as per Appendix 1 of CDM project Standard and fall under the category of changes that do not require prior approval of the Board.

SECTION B. Validation team, technical reviewer and approver

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B.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Validation findings
1.	Lead Assessor	IR	Kumar	Ashok	URS Verification Pvt. Ltd., Noida,	Y	Y	Y	Y

CDM-PRCV-FORM

					India (Central Office)				
2.	Assessor	EI	Srivastava	Manoj Kumar	URS Verification Pvt. Ltd., Noida, India (Central Office)	Y	Y	Y	Y
3.	Assessor	IR	Mandal	Amit Ranjan	URS Verification Pvt. Ltd., Noida, India (Central Office)	Y	N	N	Y
4.	Technical Expert	IR	Kumar	Ashok	URS Verification Pvt. Ltd., Noida, India (Central Office)	Y	Y	Y	Y
5.	Technical Expert	EI	Srivastava	Manoj Kumar	URS Verification Pvt. Ltd., Noida, India (Central Office)	Y	Y	Y	Y
6.	Technical Expert	IR	Mandal	Amit Ranjan	URS Verification Pvt. Ltd., Noida, India (Central Office)	Y	N	N	Y

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Badhwar	Naresh	URS Verification Pvt. Ltd., Noida, India (Central Office)
1	Approver	IR	Singhal	Mukesh	URS Verification Pvt. Ltd., Noida, India (Central Office)

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

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Validation for post registration changes was conducted using URS procedures in line with the requirements specified in the CDM M&P. the latest version of the CDM Validation and Verification Standard and relevant decisions of the COP/MOP and the CDM EB and applying the standard auditing techniques.

The verification consisted of the following three phases:

- Desk Review
- On-site Assessment
- The resolution of outstanding issues and the issuance of the final verification report and certification.

All the documents reviewed and referenced during the verification are listed in Appendix 3 attached with this report below.

C.2. On-site inspection

Duration of on-site inspection: 07/05/2015 to 07/05/2015				
No.	Activity performed on-site	Site location	Date	Team member
1.	Review of Project Description, PDD, Project design and Implementation of the project, wheeling details and commissioning details of the project.	Shirsoli Village, Jalgaon District, Maharashtra State of India	07/05/2015	Ashok Kumar, Manoj Kumar Srivastava
2.	Monitoring plan and monitoring parameters measurement Operational and data collection Procedures. Meter details and location details of monitoring equipments.	Shirsoli Village, Jalgaon District, Maharashtra State of India	07/05/2015	Ashok Kumar, Manoj Kumar Srivastava
3.	Quality control and quality assurance procedures in place. Calibration frequency and calibration schedule including review of calibration certificates.	Shirsoli Village, Jalgaon District, Maharashtra State of India	07/05/2015	Ashok Kumar, Manoj Kumar Srivastava

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Deshmukh	S.K.	Chief Coordinator, Sustainability JISL	07/05/2015	Project design and Implementation of the project, Post registration changes, wheeling details and commissioning details of the project.	Ashok Kumar, Manoj Kumar Srivastava
2.	Tyagi	Atin Kumar	Expert, Sustainability, Climate Change and Water Management JISL	07/05/2015	Monitoring plan and monitoring parameters measurement , PDD, project design, Operational and data collection Procedures. Meter details and location details of monitoring equipments.	Ashok Kumar, Manoj Kumar Srivastava
3.	Joshi	N. A	Sr. Manager, JISL	07/05/2015	Monitoring plan, location details for monitoring equipments.	Ashok Kumar, Manoj Kumar Srivastava
4.	Khadge	Satish D	Jr. Manager, JISL	07/05/2015	Monitoring parameters measurement Operational and data collection	Ashok Kumar, Manoj Kumar Srivastava

					Procedures.	
5.	Daryanani	Naveen V	Environment Officer, JISL	07/05/2015	Operational and management structure existing at site to monitor emission reductions	Ashok Kumar, Manoj Kumar Srivastava
6.	Gupta	Sunil	MR and Head QA & FS, JISL	07/05/2015	Monitoring plan	Ashok Kumar, Manoj Kumar Srivastava
7.	Gawande	P. N	Incharge, Solar Project, JISL	07/05/2015	Calculations and assumptions made in determining the GHG data and emission reductions.	Ashok Kumar, Manoj Kumar Srivastava
8.	Zope	Harshal M.	Electrical, JISL	07/05/2015	Operation and maintenance, calibration frequency.	Ashok Kumar, Manoj Kumar Srivastava
9.	Gulab	Bhaviskar	Jr. Officer, Sub-station, solar project, JISL	07/05/2015	Operation and maintenance. Calibration frequency.	Ashok Kumar, Manoj Kumar Srivastava
10.	Bangar	S. R	Sr. Manager, JISL	07/05/2015	Quality control and quality assurance procedures in place. Calibration frequency and calibration schedule including review of calibration certificates	Ashok Kumar, Manoj Kumar Srivastava

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	00	00	00
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline	00	00	00
Corrections	00	01	00
Changes to the start date of the crediting period	00	00	00
Inclusion of a monitoring plan to a registered project activity	00	00	00
Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline	00	00	00
Changes to the project design of a registered project activity	00	01	00
Types of changes specific to afforestation and reforestation project activities	00	00	00
Others (please specify)	00	00	00
Total	00	02	00

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

Means of validation	Compliance with PDD form is validated by the document review, review of PDD template and instruction for completing PDD form, Review of registered PDD, Review of revised PDD.
Findings	The change to the project design of a registered project activity has been observed during on-site visit and document review. The project participant has provided a revised PDD inclusive of all post registration changes. The project participants used the latest version of the PDD form for the revised PDD as compared to the version of the PDD form of the registered PDD. PP has provided the PDD in VVS track in clean and track change mode and same has been checked and found to be correct.
Conclusion	The assessment team has reviewed the revised PDD and it is observed that the revised PDD is in the latest form version 6.0 for PDD which is the latest form available at UNFCCC webpage and found correct. By means of checking updated PDD with the latest applicable and available PDD template form the DOE can confirm that the information transferred to the later version of the PDD form is materially the same as that in the registered PDD besides those changes highlighted and assessed under this report

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

Means of validation	There is no temporary deviations from the registered monitoring plan identified
Findings	There is no temporary deviations from the registered monitoring plan identified.
Conclusion	There is no temporary deviation for the project activity from registered monitoring plan is identified.

D.3. Corrections

Means of validation	Corrections have been validated by document review. Site inspection visit, review of Registered and revised PDD, commissioning certificates.
Findings	There is a correction in project commissioning date mentioned in registered PDD. The verification team checked the project commissioning date with commissioning certificate dated 04/07/2012 issued by MSETCL and the project commissioning date mentioned in registered PDD is not matching with the project commissioning date mentioned in the commissioning certificate. PP has revised project commissioning date of project activity in revised PDD and also the same has been corrected in the Monitoring Report. PP has submitted revised PDD in latest available PDD template (CDM-SSC-PDD-FORM, version 06.0). The verification team has accepted this change as it is a typographical errors that do not affect the design of project.
Conclusion	In line with para 148 b (1) and 158 of Project Cycle Procedure (PCP) EB 82, Annex 15, this change in revised PDD are submitted for acceptance of the Board as a part of request for issuance. This change is in line with para 1 of Appendix 1 of CDM project Standard and fall under the category of changes that do not require prior approval of the Board. The commission date in revised PDD has been verified from commissioning certificate and it is found to be correct. In line with para 305 of VVS, DOE confirms that the corrected information reflects actual project information.

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

Means of validation	N/A. There are no changes to start date of crediting period.
Findings	There are no changes to start date of crediting period.
Conclusion	There are no changes to start date of crediting period.

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

Means of validation	N/A. There is no inclusion of monitoring plan to a registered project activity.
Findings	There is no inclusion of monitoring plan to a registered project activity.
Conclusion	There is no inclusion of monitoring plan to a registered project activity.

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

Means of validation	Permanent changes are validated by the document review. Site inspection visit, review of registered PDD, Review of revised PDD, Review of commissioning certificates, Review of calibration certificates and monitoring arrangements..
Findings	<p>The calibration frequency of the meters has been changed to annually from once in three years which is more conservative as compared to calibration frequency mentioned in the Registered PDD. This has no impact on the monitoring procedures as the change in calibration frequency or practice for monitoring equipment not within the control of project participants and it leads to a more accurate and conservative approach. This change is as per para 5(a) of Appendix I of CDM PS. PP has revised calibration frequency of meters in revised PDD and also the same has been corrected in the Monitoring Report. PP has submitted revised PDD in latest available PDD template (CDM-SSC-PDD –FORM, version 06.0).</p> <p>As per the registered PDD, the metering of net electricity generated will be undertaken at the grid interconnection point i.e. 132kV MSEDCL/MSETCL Substation. However, as per the clause 7.1 of the Power Purchase Agreement (PPA), the metering of net electricity generated will be undertaken at the grid interconnection point i.e. 33 kV MSEDCL Substation at JISL premises. Accordingly from 01/04/2014 onwards metering is being carried out at 33 kV MSEDCL Substation at JISL premises. The same has been checked from the letter dated 05/05/2014 to Superintending Engineer, MSEDCL. This is beyond the control of PP. The assessment team has checked the PPA and found the information correct. This change is as per para 5 (e) of Appendix I of CDM PS. The assessment team also checked the metering location during verification site visit and found the information correct and the same is in line with the revised PDD. This change is not under the control of PP. PP has also mentioned in revised monitoring plan that in case dates of verification period does not match with dates of JMRs then daily readings would be considered. The same is acceptable as JMRs are provided for entire month and consideration of daily readings of same meter for which JMR readings are considered is acceptable and there would be no reduction in accuracy of measurements.</p>
Conclusion	<p>Permanent changes comply with the relevant requirements related to permanent changes from the registered monitoring plan. The verification team has accepted this change as it is not within the control of project participant. In line with para 148 b (iv) and 158 of Project Cycle Procedure (PCP) EB 82, Annex 15, this change in revised PDD are submitted for acceptance of the Board as a part of request for issuance. These change is as per para 5 (a) and 5 (e) of Appendix 1 of CDM project Standard and it is fall under the category of change that do not require prior approval of the Board.</p> <p>In line with para 316 of VVS, the permanent changes from registered monitoring plan i.e. change in calibration frequency from once in three years to annually mentioned in registered monitoring plan and change of monitoring location do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan. The changes are in compliance with the applied methodology. The permanent changes comply with the relevant requirements related to permanent changes from registered monitoring plan.</p>

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

Means of validation	Changes to project design are validated by the document review. Site inspection visit, review of registered PDD, Review of revised PDD, Review of PPA,.
Findings	<p>The change to the project design of a registered project activity has been observed during on-site visit and document review. The design of a project activity has been change from wheeling of generated electricity for captive purpose at JISL premises to sale to grid as PP has signed a power purchase agreement with MSEDCL. Initially, project activity was conceived for a wheeling purpose. However, the PPA was signed later with MSEDCL and project become sale to grid from wheeling. This does not adversely impact on the Additionality of project, scale of registered project, applicability of applied methodology. PP has revised project design in revised PDD and also the same has been corrected in the Monitoring Report. PP has submitted revised PDD in latest available PDD template (CDM-SSC-PDD –FORM, version 06.0).</p> <p>The changes as discussed do not have any impact on additionality or on baseline of the project activity. As per the registered PDD, project is auto additional as it falls under the positive list of technologies and project activity types that are automatically defined as additional. Small scale grid connected solar PV projects are auto additional and there is no change in project capacity and it is grid connected so it still remains in the positive list of technologies and project activity types that are automatically defined as additional. The monitoring plan is in compliance with the monitoring methodology i.e. AMS I.D ver 17. The project meets all the applicability conditions of methodology AMS I.D ver 17. There is no change in baseline as project supplied electricity to NEWNE grid and baseline 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 into the grid. The changes are not under the control of PP. Hence, the verification team has accepted this change as it does not adversely impact on the Additionality of project, scale of registered project, applicability of applied methodology and compliance of monitoring plan with applied methodology. In line with para 325 and 326 VVS, EB 82, Annex 14, this change in revised PDD are submitted for acceptance of the Board as a part of request for issuance. This change is as per para 6 (a) of Appendix 1 of CDM project Standard and it is fall under the category of change that do not require prior approval of the Board. The assessment team also confirms that, all changes are occurred after the registration of the project activity and was not known to the Project proponent prior to the registration of the project activity. All the revision/changes are in compliance with the applied methodology. There is no change in level of accuracy in monitoring as compared to requirement sin registered monitoring plan. Level of accuracy and completeness are not reduced as a result of revision. The project design changes relate to supplying electricity to grid instead of wheeling and monitoring arrangements are same i.e. monitoring carried out is supplying electricity to grid is same when electricity is wheeled.</p>
Conclusion	In line with para 325 and 326 of VVS, the changes to project design of registered project activity i.e. change from wheeling of generated electricity for captive purpose at JISL premises to sale to grid as PP has signed a power purchase agreement with MSEDCL, do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan. The assessment team confirms that, all changes are occurred after the registration of the project activity and was not known to the Project proponent prior to the registration of the project activity. All the revision/changes are in compliance with the applied methodology.

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

Means of validation	N/A. This is not a afforestation and restoration project activity.
Findings	This is not a afforestation and restoration project activity.
Conclusion	This is not a afforestation and restoration project activity.

SECTION E. Internal quality control

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The Validation Report and its respective versions have undergone an Internal Quality Control through an Independent Technical Review (ITR).

ITR is an independent process performed to examine that the process of verification has been carried out in conformance with the requirements of verification scheme as well as URS verification procedures and the conclusion is justified. The technical review is performed by designated competent person, Independent Technical Reviewer, in accordance with URS qualification scheme for CDM validation and verification. The Technical Reviewer will either accept or reject the recommendation made by the assessment team.

Name	Role
Naresh Badhwar	Technical Reviewer and Technical Area Expert TA 1.2

SECTION F. Validation opinion

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URS Verification Private Ltd has performed the 1st periodic verification of the CDM project "Solar Photovoltaic Power Project at Jalgaon, Maharashtra", India with UNFCCC reference number of 8464, registration date of 29/11/2012 and crediting period from 15 Dec 12 - 14 Dec 19 (Renewable). During the verification of project activity, corrections in project commissioning date, permanent changes from registered monitoring plan and changes to the project design of a registered project activity has been identified. The post registration changes (PRC) to registered project activity has been validated in line with the requirements of PCP and VVS.

In line with para 305 of VVS, URS confirms that the corrected information in revised PDD version 05 dated 19/11/2015 reflects actual project information and it is as per para 1 of Appendix I of CDM PS. Permanent changes to registered monitoring plan related to change in calibration frequency are as per para 5 (a) of Appendix 1 of CDM project Standard and change in location of sub-station is as per para 5 (e) of Appendix I of CDM PS. Change in project design does not affect additionality, scale of project, applicability and application of methodology and compliance of monitoring plan. These changes fall under the category of change that do not require prior approval of the Board.

The verification team confirms that the claimed emission reductions are free from material errors, omissions or misstatements, with a reasonable level of assurance. The permanent changes to the monitoring plan, corrections in PDD and change in project design which do not require prior approval are submitted alongwith request for issuance in line with para 158 of Project Cycle Procedure. These changes are as per Appendix 1 of CDM project Standard and fall under the category of changes that do not require prior approval of the Board. URS confirms that the project is implemented as described in the validated, registered and revised project design document. URS confirms that the material included in the new PDD in VVS track is materially the same as the information in the registered PDD in VVM track.

In line with para 158 of Project Cycle Procedure (PCP) EB 82, Annex 15, these changes in revised PDD are submitted for acceptance of the Board as a part of request for issuance.

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CDM-PCP	Clean Development Mechanism Project Cycle Procedure
CDM-PS	Clean Development Mechanism Project Standard
CDM-VVS	Clean Development Mechanism Validation and Verification Standard
CEA	Central Electricity Authority
CER(s)	Certified Emission Reduction(s)
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CRT	Coordination and Technical Control Staff
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
EIA	Environmental Impact assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
JMR	Joint Meter Reading
JISL	Jain Irrigation Systems Limited
LoA	Letter of Approval
MOC	Modalities of Communication Statement
MoV	Means of Verification
MP	Monitoring Plan
MR	Monitoring Report
MSEDCL	Maharashtra State Electrical Distribution Company Limited
MSETCL	Maharashtra State Electrical Transmission Company Limited
NGO	Non-governmental Organization
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
PPA	Power Purchase Agreement
Ref.	Document Reference
SS(s)	Sectoral Scope(s)
SSC	Small Scale
TA	Technical Area within the Sectoral Scope
UNFCCC	United Nations Framework Convention on Climate Change
URS	URS Verification Private Limited

Appendix 2. Competence of team members and technical reviewers

QUALIFICATION CERTIFICATE

We declare that Mr.

Ashok Kumar

is qualified as

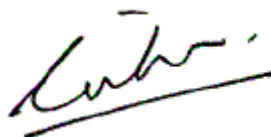
Validator/Verifier

for the Technical Area

1.1, 1.2, 13.1

Technical Area	Technical Area Description	Sectoral Scope
1.1	Thermal Energy generation	1
1.2	Renewable	1
13.1	Solid waste and wastewater	13

He is also qualified as Team Leader for validation/verification functions

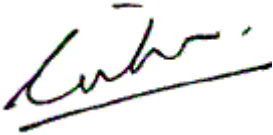


CEO

QUALIFICATION CERTIFICATE

We declare that Mr Amit Ranjan Mandal
is qualified as Validator/Verifier
for the Technical Area 1.2

Technical Area	Technical Area Description	Sectoral Scope
1.2	Renewables	1



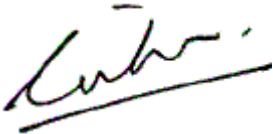
CEO

QUALIFICATION CERTIFICATE

We declare that Mr Manoj Kumar Srivastava
is qualified as Validator/Verifier
for the Technical Area 1.2

Technical Area	Technical Area Description	Sectoral Scope
1.2	Renewables	1

He is also qualified as Team Leader for validation/verification functions



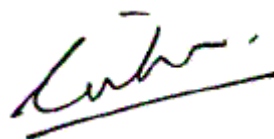
CEO

QUALIFICATION CERTIFICATE

We declare that Mr./Ms Naresh Badhwar
is qualified as Technical Reviewer
for the Technical Area 1.1, 1.2, 13.1

Technical Area	Technical Area Description	Sectoral Scope
1.1	Thermal Energy generation	1
1.2	Renewable	1
13.1	Solid waste and wastewater	13

He is also qualified as Team Leader for validation/verification functions



CEO

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Jain Irrigation Systems Limited	Monitoring Report for the Project Activity titled "Solar Photovoltaic Power Project at Jalgaon, Maharashtra", Version 01 dated 08/04/2015	Version 01 dated 08/04/2015	Project participant
2	Jain Irrigation Systems Limited	Monitoring Report for the Project Activity titled "Solar Photovoltaic Power Project at Jalgaon, Maharashtra", Version 02 dated 30/09/2015	Version 02 dated 30/09/2015	Project Participant
3	Jain Irrigation Systems Limited	Monitoring Report for the Project Activity titled "Solar Photovoltaic Power Project at Jalgaon, Maharashtra", Version 03 dated 19/11/2015	Version 03 dated 19/11/2015	Project participant
4	Jain Irrigation Systems Limited	CDM-PDD of the Project Activity titled "Solar Photovoltaic Power Project at Jalgaon, Maharashtra", Version 03 dated 02/11/2012	Version 03 dated 02/11/2012 (http://cdm.unfccc.int/Projects/DB/RWTUV1354196185.47/view) Version 05 dated 19/11/2015	Others
5	TÜV NORD CERT GmbH	Validation report for the project activity "Solar Photovoltaic Power Project at Jalgaon, Maharashtra", Report No. 8108607151 – 12/007 dated 28/11/2012	Report No. 8108607151 – 12/007 dated 28/11/2012 http://cdm.unfccc.int/Projects/DB/RWTUV1354196185.47/view	Others
6	CDM-EB	AMS I.D "Grid-connected renewable electricity generation", version 17, dated 03/06/2011	version 17, dated 03/06/2011 http://cdm.unfccc.int/methodologies/DB/W3TINZ7KKWCK7L8WTFXQQOFQQH4SBK	Others
7	CDM-EB	Clean Development Mechanism Validation and Verification Standard, Version 09.0, dated 20/02/2015, Annex 14 of EB 82	Version 09.0, dated 20/02/2015, Annex 14 of EB 82. http://cdm.unfccc.int/Reference/Standards/index.html	Others
8	CDM-EB	Clean Development Mechanism Project Standard, Version 09.0, dated 20/02/2015, Annex 13 of EB 82	Version 9.0, dated 20/02/2015, Annex 13 of EB 82. http://cdm.unfccc.int/Reference/Standards/index.html	Others
9	CDM-EB	Clean Development Mechanism Project Cycle Procedures (PCP), Version 09.0, Annex 15 of EB 82.	Version 09.0, Annex 15 of EB 82. http://cdm.unfccc.int/Reference/Procedures/index	Others

			.html	
10	The Superintending Engineer, Maharashtra State Electricity Transmission Company Limited (MSETCL), EHV (O & M) Circle, Bhusawal.	The letter to Jain Irrigation Systems Limited regarding commissioning & Synchronization letter in respect of JISL 8.5 MW Solar Power Project at Green Energy Park, Shirsoli, Jalgaon, dated 04/07/2012.	SE/EHV/O&M/KDK/BSL/T/2507 dated 04/07/2012.	Project Participant
11	The Chief Engineer, Maharashtra State Electricity Distribution Company Limited (MSEDCL), Commercial, Mumbai.	The letter to Jain Irrigation Systems Limited regarding permission of grid connectivity of 8.5MW solar Power Project at Shirsoli, Jalgaon, dated 24/01/2012.	CE/Comm./Solar/Jain Irrigation/2335 dated 24/01/2012.	Project Participant
12	Jain Irrigation Systems Limited	Letter to Superintending Engineer, O&M Circle, Jalgaon, for commencement of meter reading from April, 2014 to onwards from JISL's 8.5MW solar power project sub-station for billing purpose instead of MSEDCL's 132 KV new MIDC Sub-Station.	JISL/ELECT/SRB/05/38 dated 05/05/2014	Project Participant
13.	Maharashtra State Electricity Transmission Co. Ltd., EHV Testing Division, Dhule	Letter to Jain Irrigation Systems Ltd. for calibration of Check Meter Sr. No. MSP36218 installed at 132KV MIDC sub/Stn. Dated 22/05/2012	No. EE/TDD/DHL/TECH-02/222 dated 22/05/2012	Project Participant
14.	Maharashtra State Electricity Distribution Co. Ltd., Testing Division, Jalgaon	Letter to the Superintending Engineer, Jalgaon for calibration of Main Meter Sr. No. 13769316 installed at 132KV MIDC sub/Stn. Dated 14/05/2012	No. EET/JAL/HTC/1950, dated 14/05/2012	Project Participant

15	Maharashtra State Electricity Distribution Co. Ltd., Testing Division, Jalgaon	Letter to the Superintending Engineer, Jalgaon for calibration of Main Meter Sr. No. 13769316 installed at 132KV MIDC sub/Stn. Dated 27/09/2012	No. EET/JAL/HTC/2258, dated 27/09/2012	Project Participant
16	Maharashtra State Electricity Distribution Co. Ltd., Testing Division, Jalgaon	Letter to the Nodal Officer, , Executive Engineer, Jalgaon for calibration of Main Meter Sr. No. 13769316 installed at 132KV MIDC sub/Stn. Dated 21/05/2014	No. EET/JAL/HTC/331, dated 21/05/2014	Project Participant
17	Maharashtra State Electricity Distribution Co. Ltd., Testing Division, Jalgaon	Letter to the Nodal Officer, , Executive Engineer, Jalgaon for calibration of Check Meter Sr. No. 13277624 installed at 33KV MIDC sub/Stn. Dated 21/05/2014	No. EET/JAL/HTC/335, dated 21/05/2014	Project Participant
18	Maharashtra State Electricity Distribution Co. Ltd., Testing Division, Jalgaon	Letter to the Nodal Officer, , Executive Engineer, Jalgaon for calibration of Main Meter Sr. No. 13277622 installed at 33KV MIDC sub/Stn. Dated 21/05/2014	No. EET/JAL/HTC/334, dated 21/05/2014	Project Participant
19	Maharashtra State Electricity Distribution Co. Ltd., Testing Division, Jalgaon	Letter to the Superintending Engineer, Jalgaon for calibration of sending end Main Meter Sr. No. 13277622 installed at 33KV MIDC sub/Stn. Dated 14/05/2012	No. EET/JAL/HTC/1948, dated 14/05/2012	Project Participant
20	Maharashtra State Electricity Distribution Co. Ltd., Testing Division, Jalgaon	Letter to the Superintending Engineer, Jalgaon for calibration of sending end Check Meter Sr. No. 13277624 installed at 33KV MIDC sub/Stn. Dated 14/05/2012	No. EET/JAL/HTC/1949, dated 14/05/2012	Project Participant

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

Table 1. CL from this validation

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

Table 2. CAR from this validation

CAR ID	01	Section no.	E.4	Date: 29/05/2015
Description of CAR				
The three changes mentioned in section B.2.1 of MR does not fall under the category of temporary deviation from the registered monitoring plan. PP is requested to explain the same.				
Project participant response				Date: 30/09/2015
OK. The changes mentioned under section B.2.1 fall under B.2.2., B.2.5 and B.2.6 in line with para 1, 5(a) and 6 of PS. These changes were erroneously mentioned under B.2.1. The corrections are made and the changes are reflected under section B.2.2, B.2.5 and B.2.6 of revised MR.				
Documentation provided by project participant				
DOE assessment				Date: 29/10/2015
<p>The PP has identified 3 changes to the registered project activity i.e. corrections in project start date, changes of calibration frequency for monitoring equipment (permanent changes in registered monitoring plan) and the change in design of project activity i.e. sale to grid from wheeling in registered PDD. The identified changes from registered PDD are detailed in section B.2.2, B.2.5 and B.2.6 of revised MR. The changes mentioned in revised MR in section B.2.2, B.2.5 and B.2.6 of revised MR are in line with para 1, 5(a) and 6 of Project Standard, version 07.0. Further, these are the changes that do not require prior approval from board as these changes falls under appendix 1 of CDM Project standards, version 9.0.. PP has also provided revise PDD in VVS track mentioning these changes and same has been checked and found to be correct. Hence, accepted.</p> <p>This CAR is open due to ITR comments: There has been a change in monitoring location from 132 KV to 33 KV sub-station and same is not mentioned as post registration change in MR. CAR 02 is open.</p>				
Project participant response				Date: 19/11/2015
Change in monitoring location from 132 KV to 33 KV sub-station has been now mentioned in section B.2.5 of revised MR as a PRC.				
Documentation provided by project participant				
DOE assessment				Date: 22/11/2015
As per the registered PDD, the metering of net electricity generated will be undertaken at the grid interconnection point i.e. 132kV MSEDCL/MSETCL Substation. However, as per the clause 7.1 of the Power Purchase Agreement (PPA), the metering of net electricity generated will be undertaken at the grid				

interconnection point i.e. 33 kV MSEDCL Substation at JISL premises. Accordingly from 01/04/2014 onwards metering is being carried out at 33 kV MSEDCL Substation at JISL premises. The same has been checked from the letter dated 05/05/2014 to Superintending Engineer, MSEDCL. This is beyond the control of PP. The assessment team has checked the PPA and found the information correct. The assessment team also checked the metering location during verification site visit and found the information correct and the same is in line with the revised PDD. The assessment team has reviewed the Monitoring report and found it correct and accepted.

Hence, CAR01 is closed.

CAR ID	02	Section no.	E.4.6	Date: 29/05/2015
Description of CAR				
As per registered PDD, the electricity generated by solar project will be supply to JISL manufacturing facility through wheeling agreement. However, PP has signed a PPA to supplied electricity to the Grid. PP is also requested to explain the same.				
Project participant response				Date: 30/09/2015
The project activity was initially planned as a solar wheeling power project which would generate electricity from 8.5 MW Solar Plant at Jalgaon and the generated electricity was to be wheeled via regional grid (NEWNE Grid) for captive consumption. The same was mentioned in CDM PDD during validation. However, the wheeling could not be possible as the approval of circular no. 155 of MSEDCL which deals with the open access for captive consumption is still under consideration in MERC (Maharashtra Electricity Regulatory Commission) Hence, the PPA was signed later on and project became supply to grid instead wheeling for captive consumption.				
The above explanation has been already provided under section B.2.6 of monitoring report. Also PP has already considered this change as under post registration changes and the same is reported under section B.2.6 of MR.				
Documentation provided by project participant				
DOE assessment				Date: 06/10/2015
The PP has explained that initially project activity was conceived for captive consumption of generated electricity JISL manufacturing facility through wheeling agreement. However, due to change in MSEDCL and MERC policy the PP has start selling generated electricity to regional grid through PPA. The PP has identify this change as a Post registration Change (PRC) in line with para 6 of Appendix 1 of project standard, version 07.0 and provided the detail in section B.2.6 of MR. The verification team has checked this change in line with para 6 Appendix 1 of PS and noticed that due to change from wheeling to sale to grid, the design of project activity do not impact the Baseline, Additionality and Scale of the project activity. Further, these are the changes that do not require prior approval from board. Hence, accepted and closed out.				
Hence CAR 2 is closed.				

Table 3. FAR from this validation

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

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