

Gold Standard for Global Goals Verification Report

**GOLD STANDARD VERIFICATION OF
GS PROJECT NO. (GS-5519)
70 MW Bhadla Solar Power Plant By Fortum
Finnsurya Energy Pvt Ltd (Ekiesl-CDM-April
16-01)**


Report No. 10921SK

25 November 2021

TÜV SÜD South Asia Pvt. Ltd.
Solitaire, I.T.I. Road, Aundh
Pune- 411007
INDIA



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Title of the project activity	70 MW Bhadla Solar Power Plant By Fortum Finnsurya Energy Pvt Ltd (Ekiesl-CDM-April 16-01)
GS Reference number of the project activity	G5519
Version number of the verification and certification report	2.0
Completion date of the verification and certification report	22/11/2021
Monitoring period number and duration of this monitoring period	01/01/2021 to 30/06/2021
Version number of monitoring report to which this report applies	02
Crediting period of the project activity corresponding to this monitoring period	06/11/2017 to 05/11/2024
Project participant(s)	Fortum FinnSurya Energy Private Limited
Host Party	India
Sectoral scope(s)	1
Methodology (ies)	ACM0002: Grid-connected electricity generation from renewable sources - Version 17.0
Estimated amount of annual average certified SDG impact (as per approved PDD)	119,384 tCO ₂ e
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	75,152 tCO ₂ e
Name of DOE	TUV SUD South Asia Pvt Ltd (E-0005)
Name, position and signature of the approver of the verification and certification report	 Eswar Murty, Sr. Manager Certification Body, TUV SUD South Asia Pvt Ltd



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1 METHODOLOGY

1.1 Objective

TÜV SÜD has been commissioned by the aforementioned client to perform an independent verification assessment.

The objective of the verification work is to comply with the requirements of Gold Standard requirements. According to this assessment TÜV SÜD shall:

- ensure that the project activity has been implemented and operated as per the registered PDD, and that all physical features (technology, project equipment, monitoring and metering equipment) of the project are in place,
- ensure that the published MR and other supporting documents provided are complete, verifiable and in accordance with applicable GS4GG and CDM requirements,
- ensure that the actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology,
- evaluate the data recorded and stored as per the applicable requirements.
- assessment of the sustainability monitoring parameters as per the GS requirements.

1.2 Scope

The scope of any assessment is defined by the underlying legislation, regulation and guidance given by relevant entities or authorities. In the case of GS project activities, the scope is set by:

- GS 4 GG requirements
- Clean Development Mechanism Validation And Verification Standard (VVS) for Project Activities v3.0
- Baselines and monitoring methodologies (including GHG inventories)
- Environmental issues relevant to the applicable sectoral scope
- Applicable environmental and social impacts and aspects of GS project activity
- Current technical and operational knowledge of the specific sectoral scope and information on best practice
- Stakeholder consultation and feedback

The verification process is not meant to provide any form of consulting for the project participant (PP). However, stated requests for clarifications, corrective actions, and/or forward actions may provide input for improvement of the project design.

Once TÜV SÜD receives the MR, it is made available on the GS Registry through a dedicated interface on the Gold standard website. The Verification shall commence only after the project documents are listed on the registry.

1.3 Verification Process

The information provided by the project participants is assessed by applying the means of verification specified in the GS4GG, Toolkit and the VVS.

A competent assessment team is selected prior to the start of the verification. The team is selected to cover the technical area(s), sectoral scope(s) and relevant host country experience for evaluating the



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GS project activity. Additionally, a competent Technical Reviewer or Technical Reviewer Team is appointed to conduct checks on quality and completeness.

The verification team performs first a desk review, followed by an on-site visit, which results in the formation of a draft report and a list of findings. The next step involves the evaluation of the findings through direct communication with the PPs and then finally the preparation of the verification report. This verification report and other supporting documents then undergo an internal quality control by the CB “Environment and energy” before submission to the GS.

1.4 Appointment of the Team

According to the technical scopes and experiences in the sectoral or national business environment, TÜV SÜD has composed an assessment team in accordance with the appointment rules of the TÜV SÜD Certification Body “Environment and Energy”.

The composition of an assessment team has to be approved by the Certification Body (CB) to assure that the required skills are covered by the team. The CB of TÜV SÜD operates the following qualification levels for team members that are assigned by formal appointment rules:

- Assessment Team Leader (ATL);
- Verifier (V);
- Verifier Trainee (T);
- Technical Experts (TE);
- Country expert (CE);
- Technical reviewer (TR).

It is required that the sectoral scope(s) and the technical area(s) (TA) linked to the methodology/ies and project has to be covered by the assessment team. Appointment certificates of the selected team members are attached to this report as Annex.

Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Team Leader, Verifier & Technical Expert	EI	Kewat	Shailendra	TUV SUD South Asia	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



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Technical reviewer and approver of the verification and certification report

No.	Role	Type of re-source	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Murty	Eswar	TUV SUD South Asia
2.	Approver	IR	Murty	Eswar	TUV SUD South Asia

1.5 Review of Documents

The Monitoring Report version 03 was submitted to DOE before the verification activities started. The MR was assessed based on all the relevant documents. The aim of the assessment in the desk review was to:

- verify the completeness of the data and the information presented in the MR.
- check the compliance of the MR with respect to the monitoring plan depicted in the registered PDD and verify that the applied methodology was carried out. Particular attention to the frequency of measurements, the quality of the metering equipment including calibration requirements, and the quality assurance and quality control procedures was paid,
- evaluate the data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

A complete list of all documents reviewed is available in the Information Reference List attached as Annex 2 to this report.

1.6 On-site Assessment and follow-up Interviews

The DOE has not conducted the on-site inspection for this current monitoring period, which is the second periodic verification of this project activity, due to the Covid-19 pandemic and the ongoing travel restrictions in the country. The PP has a commitment to deliver CERs before December 2021, which has been confirmed by the DOE based on the submitted Emission Reduction purchase Agreement (ERPA) and hence the DOE could not postpone the onsite visit.

The DOE has used alternative measures of verification in place of mandatory on-site inspections. This has been done as per the decision taken by Gold Standard Covid-19 measures and CDM-EB alternative measures until 30th June 2021 as per p.28 EB 108 and EB 110. 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.

The DOE has conducted web meetings and video conference with PP and their representatives on 12th November 2021 in line with 4.2.2 of Covid-19 measures by Gold Standard. The interviews and discussions were conducted successfully, and it is sufficient for the DOE to verify and prepare the report.



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Duration of Remote Audit & Interviews:				
No.	Activity performed on-site	Site location	Date	Team member
1.	During the remote assessment of the project TUV SUD team has assessed the implementation and operation of the project activity, reviewed the information flows for generating, aggregating and reporting the monitoring parameters, interviewed key personnel of the project.	Remote	12/11/2021	Shailendra Kewat

Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1	Paliwal	Dilip	Plant Manager	12/11/2021	Monitoring and project implementation and SDG parameters	ShailendraKewat
2	Sadevra	Vivek	Manager	12/11/2021	Monitoring and project implementation	ShailendraKewat
3	Dogra	Deepak	Engineer	12/11/2021	Monitoring and project implementation	ShailendraKewat
4	Gurhosur	Shraddha	Consultant	12/11/2021	Monitoring, sampling, project implementation and ER calculations	ShailendraKewat

1.7 Resolution of Clarification and Corrective and Forward Action Requests

The objective of this phase of the verification is to resolve the requests for corrective actions, clarifications, and any other outstanding issues which need to be clarified for TÜV SÜD's conclusion on the achieved emission reductions. Three CARs, one CR and no FARs were raised during the course of verification. All the CARs and CRs raised by TÜV SÜD are resolved during communication between the client and TÜV SÜD. To guarantee the transparency of the verification process, the concerns raised and responses that have been given are documented in detail in the List of Findings that is attached as Annex 1 to this report.

1.8 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 (Verification and Certification Conclusion) made by the CB "Environment and Energy".



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2 CARBON VERIFICATION AND REPORTING

In the following sections, the results of the verification are stated. The verification results relate to the project performance as documented and described in the final PDD and final Monitoring Report. The verification findings for each verification subject are presented below.

2.1 FARs from Validation / Previous Verification

No FARs envisaged from previous verification and or Validation. This is first periodic verification for the project activity.

2.2 Project Implementation in accordance with the registered PDD

The project activity involves installation of 70 MW (AC) (88.2 MWp) solar power project at Bhadla, Jodhpur, Rajasthan. Brief description of the installed technology and equipment.

Technical detail of the equipment	Remark
Technology	Solar PV Module
Solar photovoltaic module	First solar series 4TM PV Module
No of Modules	112.5Wp:- 88800, 115Wp:- 587000, 117.5Wp:- 85200
Make	First Solar
Capacity	112.5Wp, 115Wp, 117.5Wp
No of inverters	70
Make	ABB
Capacity	1000KVA
No. of transformers	18 (ITD) + 2 (PT)
Technical & Operational Lifetime	25 years

The project is commissioned on 31/03/2017 date and supplying generated electricity to INDIAN grid.

The crediting period for the project activity starts from 06/11/2017 to 05/11/2024.

The project activity is located in

Latitude : 27° 28' 7.00" North

Longitude : 71° 58' 17.00" East

District : Jodhpur

Village : Bhadla

State : Rajasthan

Country : India

2.3 Sampling Approach

Not applicable.

Validation Opinion on the changes observed post-registration changes to the project :



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Based on the virtual audit interviews and review of the documents, the verification team has confirmed that there no post-registration changes to the project during the current monitoring period.

2.4 CLs, CARs and FARs raised

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form			
Compliance of the project implementation with the registered PDD	1		
Post-registration changes			
Compliance of the monitoring plan with the monitoring methodology including applicable tool and standardized baseline	2		
Compliance of monitoring activities with the registered monitoring plan			
Compliance with the calibration frequency requirements for measuring instruments			
Assessment of data and calculation of emission reductions or net removals		1	
Others (Assessment of SDG outcomes)		1	
Total	3	2	0

2.5 Compliance of the Monitoring Plan with the Methodology

During the document review and furthermore during the remote audit, the verification team has reviewed the registered monitoring plan and compared it with the monitoring methodology to verify their compliance. The verification team confirmed that the implemented monitoring plan is in compliance with the registered PDD and the monitoring methodology as well.

2.6 Compliance of the Monitoring with the Monitoring Plan

The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD. All parameters were monitored and determined as per the Monitoring Plan.

The verification of the parameters required by the monitoring plan is provided as follows:

The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD. All parameters were monitored and determined as per the Monitoring Plan.

The verification of the parameters required by the monitoring plan is provided as follows

Data / Parameter:	EG _{P,y}
Data unit:	MWh
Description:	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh
Source of data used:	Monthly joint meter reading reports (70MW)
Means of verification/Comments:	VVB has verified the JMR issued by the local electricity authority for the each month and found the generation data in line with the ER sheet. This value has been cross-checked with the invoice raised by PP



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Cross-check	The Quantity of electricity exported from the monthly solar energy certificates is cross-checked with the invoices for the sale of power by Fortum FinnSurya Energy Private Limited.
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3 SUSTAINABILITY VERIFICATION

The monitoring has been carried out in accordance with the GS sustainability monitoring plan contained in the registered PDD and annex. All the sustainability parameters were monitored and determined as per the Monitoring Plan.

3.1 Assessment of SDG outcomes for the current Monitoring period

SDG Indicator	SDG 7: Affordable and clean energy
Data Unit :	MWh/ year
Description :	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh
Source of data used :	Monthly joint meter reading reports (70MW)
Means of verification /comments :	Quantity of electricity supplied during current monitoring period is 76,867. Same has been verified with the JMR submitted by PP. Amount esimated in registered PDD:122,640 MWh/Annually

SDG Indicator	SDG 13: Climate Action
Data Unit :	tCO ₂
Description :	Emission reduction achieved during monitoring period
Source of data used :	Summarized in ER sheet of "GS 5519 ER Sheet".Calculated as per the registered PDD and as per methodology
Means of verification /comments :	Estimated ER in the PDD was: 119,384 tCO ₂ /Annually ER achieved during current monitoring period is 75,152 tCO ₂ The above data has been checked from the JMR.

SDG Indicator	SDG 8: Decent work and economic growth
Data Unit :	Number (employees) Number(Trainings) INR (salary)



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Description :	Number of men and number of women employed by the project activity. Type of job like temporary/permanent or skilled/unskilled, etc also monitored and it is ensured that peoples will get equal payment for equal work. Training of staff.
Source of data used :	The training records for all the employees/Letter from O&M contractor for employment generation/ DOE interview with employees, local stakeholders etc
Means of verification /comments :	Total 15 training has been given to the employees and 41 persons employed during current monitoring period. DOE has verified the training records for the same.

The adequacy and compliance of the monitoring plan in the Monitoring report was found as per the requirements laid by the approved GS4GG PDD. The information flow (from data generation, aggregation, to recording, calculation and reporting) is already included under respective parameter above. The verification team has verified all the data and collected evidence as per the required monitoring frequency and found to be correct and appropriate meeting the requirements of the applied methodology and registered PDD.

Grievance Mechanism:

As a part of continuous feedback from stakeholders, the grievances register is being placed at site and is being continuously monitored and addressed through the grievances cell on regular basis and maintained in a register.

3.2 Assessment of Data and Calculation of Greenhouse Gas Emission Reductions

Means of verification	<p>Baseline Emissions for the amount of electricity supplied by project activity, BE_y is calculated as: Project emissions: Project Emissions, PE_y = 0 Emission reductions: Calculation of baseline emission is as follows;</p> $BE_y = EG_{PJ,y} * EF_{grid,CM,y}$ <p>Where, EG_{PJ,y} = Total quantity of net electricity delivered to the national grid EF_{grid,CM,y} = Baseline emission factor = 0.9777tCO_{2e}/MWh</p> <p>So, BE_y = 76,867 * 0.9777 = 75,152 (round down value)</p> <p>Since ER_y = BE_y Therefore, ER_y=75,152 tCO_{2e}</p>
Findings	N/A
Conclusion	As a result of verification of the ER calculation process, the assessment team confirmed that all the parameters required for the determination of the emission reductions have been included in the Monitoring report Version 01 & Monitoring report Version 02 and corresponding ER calculation



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	spreadsheets and are consistent with the applied methodology ACM0002: Grid-connected electricity generation from renewable sources - Version 17.0 and the monitoring plan contained in the registered PDD. The parameters are complete in this monitoring period.
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4 EMISSION REDUCTIONS AND SDG IMPACTS

AS per ACM0002 (Version 17.0), the baseline emissions are to be calculated as follows:

$$BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$$

Where:

BE_y = Baseline emissions in year y (tCO₂/yr)

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)

$EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of "TOOL07: Tool to calculate the emission factor for an electricity system" (tCO₂/MWh)

The project emissions are calculated based on

$$PE_y = ECP_{J,i,y} \times EF_{grid,CM,y}$$

The total emission reductions from the project activity are calculated as the difference between baseline and project emissions and the value for the monitoring period is 75,152 tCO₂e

SDG 7 – Affordable & Clean Energy

The project activity has the capacity to produce 122,640 MWh per annum. The total affordable and clean energy generated by project activity is 76,867 MWh during this monitoring period.

SDG 8 – Decent work & Economic Growth

The project activity has provided employment opportunities to 41 nos. In addition, providing 15 trainings to the employees for improving their skills.

Summary of SDG 8 impact are as follows:

Year	No of Jobs created	Training Information	
		No of Trainings	No of staffs attended
2021	41	communication skill	15
2021		corona safety training	12
2021		first aid	18
2021		fire fighting	15
2021		Electric Shock handling	9
2021		Safety/health Environments	16
2021		General safety awareness (For 2 New Employee)	



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2021	Response in case of emergen- cies	9
2021	Fortum's Safety Ground Rule	10
2021	General safety awareness (Use of PPEs)	7
2021	Tool Box Training	7
2021	EHS Training	7
2021	Physical Security Ground Rule	8
2021	Electric Shock handling	13
2021	Safety Training for Contractors	10



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5 VERIFICATION OPINION

TUV SUD South Asia has performed first verification of the emission reductions reported for the project activity “70 MW Bhadla Solar Power Plant By Fortum Finnsurya Energy Pvt Ltd (Ekiesl-CDM-April 16-01)”, GS Reference No. 5519 for the period 01/01/2021 to 30/06/2021, with regard to the relevant GS4GG principles and requirements. The project participants are responsible for the collection of data in accordance with the monitoring plan and the reporting emission reductions from the project.

It is TUV SUD’s responsibility to express an independent verification opinion on the reported emission reductions from the project and does not express any opinion on the selected baseline scenario or on the validated and registered PDD. Based on documented evidences and corroborated by an on-site assessment TUV SUD can confirm that:

- (i) the project has been implemented and operated as per the PDD;
- (ii) the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable GS4 GG principles and requirements;
- (iii) the monitoring is in place as per the applied baseline and monitoring methodology; (iv) the monitoring complies with the monitoring plan;
- (iv) the monitoring plan in the PDD is as per the applied baseline and monitoring methodology.

Annex 1:List of Findings

Table 1. CL from this verification

CL ID	01	Section no.	A.4	Date: 15/11/2021
Description of CL				
Generation data for the month of April and May is missing				
Project participant response				Date: 19/11/2021
Generation data for the month of April and May is provided to assement				
Documentation provided by project participant				
Generation data for the month of April and May				
DOE assessment				Date: 25/11/2021
Missing data has been received. CL is closed				

CL ID	02	Section no.		Date: 15/11/2021
Description of CL				
PP has to submit the following documents:				
<ol style="list-style-type: none"> 1. Calibration details of meters 2. Training records for monitoring period 3. Sample Salary slips 4. Latest photographs of the site 5. HSE logbook for hazardous waste management 6. ERPA 				
Project participant response				Date: 19/11/2021
<p>The following documents are submitted:</p> <ol style="list-style-type: none"> 1. Calibration details of meters 2. Training records for monitoring period 3. Sample Salary slips 4. Latest photographs of the site 5. Not applicable. It is not applicable as in the registered transition Annex and GS passport maintenance of HSE logbook for hazardous waste management has not been mentioned. Also Since it is a solar power project it does not lead to release of any hazardous substances that pose threat to the environment. Rather it aims at reducing the air pollution that is prevalent due to use of fossil fuel power plants. The project promotes environmental protection through the use of cleaner technology. 6. ERPA 				
Documentation provided by project participant				

1. Calibration details of meters	
2. Training records for monitoring period	
3. Sample Salary slips	
4. Latest photographs of the site	
5. transition Annex and GS passport	
6. ERPA	
DOE assessment	Date: 25/11/2021
Requested documents submitted. CL is closed	

CL ID	03	Section no.	E.5 and ER sheet	Date: 15/11/2021								
Description of CL												
Actual values of the all SDGs should be included in the section E.5.1												
Project participant response				Date: 19/11/2021								
Actual values of the SDGs has been included in the section E.5.1 . The value is as follows												
<table border="1"> <thead> <tr> <th>SDG</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>SDG 7</td> <td>76,867 MWh</td> </tr> <tr> <td>SDG 8</td> <td>15 Trainings 41 Employees 1,32,69,202 INR</td> </tr> <tr> <td>SDG 13</td> <td>75,152 tCO2e</td> </tr> </tbody> </table>					SDG	Value	SDG 7	76,867 MWh	SDG 8	15 Trainings 41 Employees 1,32,69,202 INR	SDG 13	75,152 tCO2e
SDG	Value											
SDG 7	76,867 MWh											
SDG 8	15 Trainings 41 Employees 1,32,69,202 INR											
SDG 13	75,152 tCO2e											
Documentation provided by project participant												
Revised MR												
DOE assessment				Date: 25/11/2021								
Revised MR received. CL is closed												

Table 2. CAR from this verification

CAR ID	01	Section no.	D.2	Date: 15/11/2021
Description of CAR				
Please provide the calibration details of the meters in the MR.				
Project participant response				Date: 19/11/2021

Calibration details has been added to the MR

The calibration details are as follows:

Meter Number	Meter Type	Date of calibration
16195106	Main Meter	01/03/2021
16195107	Check meter	01/03/2021
16195098	Standby meter	01/03/2021

The frequency of calibration is once in 5 years as per CEA guidelines

Documentation provided by project participant

Revised MR

DOE assessment

Date: 25/11/2021

Revised MR received. CAR is closed

CAR ID	02	Section no.	E.4	Date:	15/11/2021
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Description of CAR

SDG-7 value is incorrect in the section E.4

Project participant response

Date: 19/11/2021

SDG-7 value has been corrected in the section E.4

Documentation provided by project participant

Revised MR

DOE assessment

Date: 25/11/2021

Revised MR received. CAR is closed

Table 3. FAR from this verification

NA.

Annex 2

Information Reference List

REF. NO.	Author/Editor/ Issuer	Title/Type of Document. Publication place	Issuance and/or submission date (dd/mm/yyyy)	Additional Information (Relevance in CDM Context)
1.	Fortum FinnSurya Energy Private Limited (FFEPL)	GS 5519 Revised PDD version 3	09/01/2018	
2.	FFEPL	GS 5519 Monitoring Report version 01	08/11/2021	
3.	FFEPL	GS 5519 Monitoring Report version 02	19/11/2021	
4.	Gold Standard	GS 5519 project page		
5.	FFEPL	GS 5519 ER calculation sheet version 01	08/11/2021	
6.	FFEPL	GS 5519 ER calculation sheet version 02	19/11/2021	
7.	FFEPL	Field data sheets for ER and SDG monitoring	2021	
8.	FFEPL	Employees log book record	2021	
9.	FFEPL	Sample salary slips of employees	2021	
10.	FFEPL	List of Employees	2021	
11.	FFEPL	Training records	2021	



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Annex 3

Appointment Certificates

ZERTIFIKAT ♦ CERTIFICATE ♦ 認証証書 ♦ СЕРТИФИКАТ ♦ CERTIFICADO ♦ CERTIFICAT



CERTIFICATE OF APPOINTMENT

Mr. Kewat, Shalendra fulfills the requirements of the Certification Body 'Environment and Energy' of TUV SUD South Asia Pvt. Ltd. to participate in audits.

Standard	Qualification applicable to				
	CDM	GS	VCS	ISO-14001-1:2005	Other
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Status	Qualification as					
	Validator	Verifier	A.T	Technical Reviewer	Financial Expert	Technical Expert
TA (a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	1.2, 3.1, 5.1, 13.1					

Region	Country Expertise					Other
	1	2	3	4	b	
Further countries	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	India					

Technical Area
1.2_Renewables
3.1_Energy Demanc
5.1_Chemical Industries
13.1_Solid waste and waste water

This appointment is valid until 31.06.2022 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. CD-IND-CCP-0109/002

Date	Signature
01/06/2021	

IS-CDMS-013-POC-01/06, version 03



TUV SUD South Asia ♦ Zertifikat ♦ Certificate ♦ Сертификат ♦ Certificado ♦ Certificat



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ZERTIFIKAT ♦ CERTIFICATE ♦ 認証証書 ♦ CERTIFICADO ♦ CERTIFICAT



CERTIFICATE OF APPOINTMENT

Mr. Murly, Eswar fulfills the requirements of the Certification Body "Environment and Energy" of TÜV SÜD South Asia Pvt. Ltd to participate in audits

Standard	Qualification applicable to				Other
	CCM	GS	VCS	ISO-14001-1:2008	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Status	Qualification as					
	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 (e)	1.1, 1.2, 3.1, 4.1, 13.1					

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

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 31.05.2022 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-2031/012.

Date	Signature
01/05/2021	

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

TÜV SÜD South Asia ♦ Address: 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

