



VERIFICATION REPORT

300MW HYDROPOWER PROJECT

BY JHPL



South Asia

Document Prepared By

TÜV SÜD South Asia Pvt Ltd

Project Title	300MW Hydropower project by JHPL ¹
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Report Title	VCS Verification of “300MW Hydropower project by JHPL”
Client	EKI Energy Services Limited

¹ Due to change in ownership (from JHPL to HBPL) of project activity, the deviation has been requested to change the project title from “300MW Hydropower project by JHPL” to “300MW Hydropower project by HBPL”. The project title will be revised after Deviation approval by VERRA.

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Summary:

TÜV SÜD South Asia Pvt. Ltd. has performed the 12th periodic verification of the aforementioned VCS project activity. The verification is based on the currently valid documentation of the VCS and United Nations Framework Convention on Climate Change (UNFCCC).

The Verification has been conducted for the monitoring period 01/01/2018 to 31/10/2020.

The verification process includes three phases:

- Desk review of documents;
- On-site audit and follow-up interviews with the relevant personnel;
- Resolution of outstanding issues and the issuance of final verification report and opinion.

The project activity is the implementation of run-of-the-river hydro-electric power plant with an installed capacity of 300 MW. The diversion barrage of the project is located across river Baspa, one of the major tributaries of the river Sutlej, at Kuppa in Himachal Pradesh. The power house is located at Karcham village in Kinnaur District.

The electricity generated by the project is exported to the Indian grid. The project activity is therefore displaces an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid.

The 300 MW hydro power project was implemented in three phases. Unit I commissioned on 24/05/2003, followed by Unit II on 29/05/2003 and Unit III on 08/06/2003

2 Clarification Requests (CLs) and 3 Corrective Action Requests (CARs) have been raised during the course of verification process and has been successfully closed. No Forward Action Request (FAR) was/were raised during this monitoring period.

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1 INTRODUCTION

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 Verified Carbon Standards 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 VCS and CDM VVS 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 VCS requirements

1.2 Scope and Criteria

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

- VCS v4.0 requirements
- Clean Development Mechanism Validation And Verification Standard (VVS) for Project Activities v2.0
- Baselines and monitoring methodologies (including GHG inventories)
- Environmental issues relevant to the applicable sectoral scope
- 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.

1.3 Level of Assurance

The errors identified in the project are below the threshold limit of materiality and hence not material. The GHG emission reductions are calculated without material misstatements.

The VVB confirms that a reasonable level of assurance has been achieved during the verification process.

1.4 Summary Description of the Project

The Baspa project is a run-of-the-river hydro-electric power plant with an installed capacity of 300 MW. The diversion barrage of the project is located across river Baspa, one of the major tributaries of the river Sutlej, at Kuppa in Himachal Pradesh. The power house is located at Karcham village in Kinnaur District. The project activity was an initiative of Jaiprakash Hydro Power Limited (JHPL) a part of the Jaypee Group.

The project activity is a run-of-the-river hydro project which supplies power through Indian Grid. The power generated by the project activity displaces the power that would have otherwise been generated using fossil-fuel as in the current supply pattern of the grid. INDIAN grid is operating with a mix of hydro, nuclear and fossil fuel power plants. Prior to the start of the project activity the existing demand in the Northern Region Grid was met through its existing fossil fuel based (coal, gas and diesel), nuclear, hydro and renewable energy based power plants.

From 01-September-2015 onwards, the Himachal Baspa Power Company Ltd. (HBPCL) has owned this hydro power plant and its name changed to JSW Hydro Energy Limited² from 01-September-2018 thus JSW Hydro Energy Limited is the new owner is acting as project proponent for the project activity.

The 300 MW hydro power project was implemented in three phases. Unit I commissioned on 24/05/2003, followed by Unit II on 29/05/2003 and Unit III on 08/06/2003

2 VERIFICATIONPROCESS

2.1 Method and Criteria

The information provided by the project participants is assessed by applying the means of verification specified in the VCS v4, 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 VCS 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

² The relevant document for company name change are provided

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 VCS.

2.2 Document Review

The documents referred during the course of this verification are provided in Appendix 1.

2.3 Interviews

The VVB has not conducted the on-site inspection for this current monitoring period due to obligations imposed by COVID 19. However the VVB has ensured that reasonable level of assurance has been achieved as per Verra regulations on the relaxation of mandatory site visits by the VVB due to Covid-19. The VVB has conducted telephonic interviews and video calls to discuss with the client regarding the data and documents pertaining to the current verification period. The interviews and discussions were conducted successfully.

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Thakur	Anilkumar	JSW Hydro Energy Limited	28/11/2020	Plant technology and monitoring	Eswar Murty
2	Mitra	Souvik	EKI Energy Services	28/11/2020	CDM Monitoring	Eswar Murty
3	Sharma	Barun	EKI Energy Services	28/11/2020	CDM Monitoring	Eswar Murty

2.4 Site Inspections

Please see 2.3

2.5 Resolution of Findings

CL from this verification

CL ID	01	Section no.	Page 1	Date:	28/11/2020
Description of CL					
PP to submit documentary evidence for change in ownership to JHPL					
Project participant response					Date: 30/11/2020
PP has provided documentary evidence (Certificate of Incorporation pursuant to change of name) for change in ownership to JHPL					
Documentation provided by project participant					

Certificate of Incorporation pursuant to change of name	
VVB assessment	Date: 11/12/2020
The Certificate of Incorporation is submitted. Hence the issue is closed.	

CL ID	02	Section no.	4.2	Date: 28/11/2020
Description of CL				
The VCS PDD and the MR mentions the calibration frequency as once in 5 years as per CEA notification. However as per the discussions with PP and the data provided in the MR, it is observed that calibration is being done on annual basis and also meters are replaced every year. PP to clarify this deviation with respect to the calibration frequency and take necessary action in the MR.				
Project participant response				Date: 30/11/2020
In VCS PD, calibration frequency of monitoring equipment has been provided as provided as per CEA notification; however in actual calibration is done once annually as per norms in the state. The calibration frequency followed at site is more conservative than CEA notification i.e. registered monitoring plan. Thus no any deviation in registered monitoring plan required for calibration frequency. Total eight (8) meters – two sets of four meters are there and these sets are used alternatively every year. It is provided in APPENDIX 1 of MR				
Documentation provided by project participant				
VCS MR v02				
VVB assessment				Date: 11/12/2020
The calibration frequency followed is more conservative, hence the issue is closed.				

CARs from this verification

CAR ID	01	Section no.	4.3	Date: 28/11/2020
Description of CAR				
It is not clear how many metering points as per the data submitted in the MR. PP to provide a single line diagram mentioning all units and respective metering points in the MR.				
Project participant response				Date: 30/11/2020
Single line diagram showing the metering points of all units have been provided in section 4.3 of MR				
Documentation provided by project participant				
VCS MR V02				
VVB assessment				Date: 11/12/2020
The single line diagram with respective metering points is provided. Hence the issue is closed.				

CAR ID	02	Section no.	4.2	Date:28/11/2020
Description of CAR				
PP to provide meter details of main and check meters existing and replaced during the current monitoring period and the calibration dates accordingly.				
Project participant response				Date: 30/11/2020
Details of main & check meter (existing and replaced during the monitoring period) along with calibration dates have been provided in APPENDIX 1 of MR				
Documentation provided by project participant				
VCS MR V02				
VVB assessment				Date: 11/12/2020

The details of main and check meters existing and replaced during the current monitoring period and calibration dates are provided. Hence the issue is closed.

CAR ID	03	Section no.	5.1/5.3/5.4	Date: 28/11/2020
Description of CAR				
1) As mentioned in section 5.1 Baseline Emissions - CEA, Baseline Carbon Dioxide Emissions from Power Sector – Version 4.0 to be recheck as it is inconsistent with VCS-RCP PDD 2) Net electricity supplied to grid values and baseline emissions values do not match with the emission reduction sheet values 3) Percentage of actual VERs to estimated VERs mentioned in section 5.4 do not match with ER sheet values				
Project participant response				Date: 30/11/2020
1) Section 5.1 of MR has been revised 2) Values of net electricity supplied to grid and baseline emissions have been revises in line with ER sheet in section 1.1, 4.2, 5.1 and 5.3 of MR 3) Section 5.4 of MR has been revised with correction in the value of percentage of actual VERs to estimated VERs				
Documentation provided by project participant				
VCS MR V02				
VVB assessment				Date: 11/12/2020
The details of main and check meters existing and replaced during the current monitoring period and calibration dates are provided. Hence the issue is closed.				

2.6 Eligibility for Validation Activities

Not applicable

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project activity is neither registered nor seeking registration in any other GHG program. The project proponent has also provided undertaking that it will not claim any GHG credits in any GHG program other than that under VERRA during the current monitoring period.

3.2 Methodology Deviations

NA

3.3 Project Description Deviations

Since 01-September-2015, project activity ownership rests on the Himachal Baspa Power Company Ltd. The company name changed to JSW Hydro Energy Limited from 01-September-2018. The project title will be revised after Deviation approval by VERRA

3.4 Grouped Project

NA

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

The 1st unit of the 300 MW run-of-river hydro power project of installed capacity 100 MW got commissioned on 24-May-2003, the second unit on 29-May-2003 and third unit on 08-June-2003 that corresponds to the date when the project got fully commissioned.

The project, being a run-of-river type Hydro-Power project, would generate power by utilizing the water diverted from the flow of river Baspa. The flow in the river Baspa is contributed by several nullahs and khuds and numerous glaciers. The diversion barrage of the project is located across river Baspa, one of the major tributaries of river Satluj, at Kuppa in Himachal Pradesh. Water is diverted from the barrage to the power house through a diversion barrage. Two open sedimentation chambers are used after the diversion barrage to exclude the silt from water used for power generation. The water is passed through a head race tunnel of about 7.95 km long and steel lined pressure shaft (about 885 meters long to create a design head of 702 meters) which is branching into three penstocks for running 3 pelton turbines of 100 MW each. A surge shaft has been constructed between the head race tunnel and the pressure shaft which would be used to regulate the flow. The project uses Suzlon's wind energy technology and implements 36 number of WTGs of S95 model with a capacity of 2100kW each. The technical details are shown below:

The power generated is stepped up to 400 KV and is evacuated by two circuits of 400 KV lines for the power station to Jhakri substation, which is about 55 Km from the site. The transmission line from the power station to Jhakri consisting of 121 towers has been installed as a part of the project.

From Jhakri, 400 KV transmission system is utilized to evacuate the full output of (300 MW) hydroelectric project.

Technical information of the Project activity

Parameters	Specifications
HYDROLOGY	
Catchment area at barrage axis	967.72 sq.km
Snow catchment	514.15 sq.km
Design flood (1 in 100 Years)	1150 Cumec
Minimum discharge for 90% availability	9.4 Cumec
DIVERSION BARRAGE	
Type	Gated, 61 m long
Length of Barrage	70 m (4 bays of 13m each, 3 Piers of 3m each & 2 Abutments of 4.50m)
Height of Barrage from deepest foundation	21.15 m (EL. 2533.50 to EL. 2512.35m at 40m D/S of
Maximum Pond Level	EL. 2531.50m
Minimum Pond Level	EL. 2527.50m
Live Storage at FRL	75.00 Ha-m
Average River bed level at barrage site	EL. 2519.00m
INTAKE	
Crest Level	EL. 2525.00m
No. of intake bays	4 bays each 4 m wide (Plus 2 bays for Baspa Stage-I)
Discharge through intake	65 cumec
SEDIMENTATION CHAMBER AND FLUSHING DUCTS	
Particle Size to be Excluded	(+) 0.2 mm
Flow through velocity	0.3 m/s
Desilting tanks	2 Nos.
Size of tank	138.5m (L) x17m (W) x16m (H)
Flushing discharge	13 cumec
Size of Flushing tunnel	0.84mx1.8m (H) (2 Nos.)
Head Race Tunnel (HRT)	
Length	7950 m (excluding 103m of cut and cover portion)
Type of Section	4m dia, Modified Horse Shoe
Design Discharge	52 cumec
Slope in tunnel	1 in 114
Lining	Concrete lining
SURGE SHAFT	
Type	Underground
Diameter	6m/8m
Height	121m
PRESSURE SHAFT	
No. & Type	One number, steel lined 3.1 m dia 885m long with two bifurcations U/S of Power House
Unit Penstock	3 Nos, 1800 mm dia
Power House	
Capacity	3 x 100 MW

Type	Underground
Size of P.H. Cavern	92 m (L) x 18m (W) x 39 m (H)
Size of T.H. Cavern	75 m (L) x 13m (W) x 20 m (H)
GENERATION	
In 90% dependable year	1213 MU per annum
In 50% dependable year	1391.61 MU per annum
Tail Race Tunnel (TRT)	
Length and Shape	250m long, 5.6m d-shaped
Hydraulic Turbines (HYDRO-VEVEY, SWITZERLAND)	
Type	Pelton
Design Head	702 m
Rated Output	103 MW
Normal Speed	375 rpm
No. of Jets	4
Generators (SIEMENS A.G., GERMANY)	
Rated Output	111MVA with 10% overload margin with higher temperature rise
Rated Voltage	13.8 kV +/- 5%
Frequency	50 Hz +/- 3%
Synchronous speed	375 rpm
MAIN UNIT TRANSFORMERS (BHEL)	
No. & Capacity	3x41 MVA, Single Phase
BUS DUCTS (SIEMENS A.G., GERMANY)	
Type	Isolated phase, Continuous type
Rated Voltage	15 kV
Rated Current	6000 A (Main) / 4000A (Delta)
Cooling	Natural
E.O.T. CRANES (WMI CRANES LTD.)	
No. & Capacity	1x 210/25/10 tonne
Span	18.8 m
55 Km long, 400kV D/C Transmission Line between Baspa-II to Jhakri - Total scope including Benching work, Foundation work, Tower Erection Work, Stringing Work and Revetment Work at 121 Locations involving crossing of the valley 13 times	

During the current monitoring period, the hydro power project was operating with normal operational schedule including scheduled shut down for maintenance.

Means of verification	Referring to VCS v4 and p.360, p.361, p.363 and p.364 of CDM VVS PA, v2.0, the below tables provide a summary on the verification of each monitoring parameter listed in the registered monitoring plan.	
	Data / Parameter:	EG _{P,J,y} / EG _{facility,y}
	Data unit:	MWh
	Description:	Net Electricity supplied to the grid by the project activity during the year y
	Source of data used:	Joint Meter Reading (JMR) by SEB

	Means of verification/Comments:	This value is calculated based on the difference between measured values of “export” and “import”			
	Cross-check	Electricity Sales invoices submitted			
	Compliance with the calibration frequency requirements for measuring instruments				
	The audit team has checked the calibration certificates and records of the monitoring equipment as given below and found to be in line with the calibration frequency specified in the monitoring plan.				
	Energy Meters at Baspa-II Feeders (300MW Hydropower project by JHPL)		Year-wise Duration of Energy Meters in Operation		
			01/01/2018 to 30/11/2018	30/11/2018 to 25/11/2019	25/11/2019 to 31/10/2020
	Feeder-I Meter Serial No.	Main Meter (Main-1)	HPU06260	HPU06213	HPU06260
		Check Meter (Check-1)	HPU06261	HPU06214	HPU06261
	Feeder-2 Meter Serial No.	Main Meter (Main-2)	HPU06262	HPU06215	HPU06262
		Check Meter (Check-2)	HPU06263	HPU06216	HPU06263
	Serial No.			Date of calibration	Validity till
HPU06213			20-December-2016	19-December-2021	
HPU06214			20-December-2016	19-December-2021	
HPU06215			20-December-2016	19-December-2021	
HPU06216			20-December-2016	19-December-2021	
HPU06260			05-December-2017	04-December-2022	
HPU06261			05-December-2017	04-December-2022	
HPU06262			06-December-2017	05-December-2022	
HPU06263			06-December-2017	05-December-2022	
Conclusion	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 registered monitoring plan. Referring to p.360, p.361, p.363 and p.364 of CDM VVS PA, v2.0, VVB confirms through video call and telephonic interviews and from the document review, the actual monitoring system complies with the registered monitoring plan. The substantiation of this conformity on information flow for these parameters including the values in the monitoring reports is reported in the above				
	During the verification, all relevant monitoring parameters of the registered monitoring plan have been verified with regard to the appropriateness of the verification method, the correctness of the values applied for ER calculation, the accuracy and applied QA/QC measures. After appropriate corrections, carried out by the project participant, it is confirmed that all monitoring parameters have been				

	measured / determined without material misstatements and are in line with all applicable standards and relevant requirements. All parameters required to be monitored are recorded at the intervals required by the registered monitoring plan and the applied methodology. On the basis of review of source and nature of available evidences and records, the verification team confirms the quality of evidence for emission reduction provided is sufficient as per CDM VVS PA, v2.0.
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4.2 Safeguards

4.2.1 No Net Harm

The project do not have any negative environmental impacts.

4.2.2 Local Stakeholder Consultation

Local stakeholder consultation has been conducted at the time of project registration. As confirmed by PP during interviews, for on-going stakeholders communication, PP has maintained feedback/complaint register at the site office. Local stakeholders can anytime lodge their grievances if any in the register over the operational life time of the project.

During current monitoring period no grievance was received. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate."

4.3 AFOLU-Specific Safeguards

Not applicable.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The assessment of data and the calculation of baseline emission reduction in the MR and the ER excel sheet have been verified as per the following set of supporting documents: 1. Export and Import data 2. VER spreadsheets 3. Sales Invoices
Conclusion	Calculations applied formulae and method for calculation of baseline emission are in accordance with the registered monitoring plan and are in line with the requirements of the applied methodology.

Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the project activity. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan
Conclusion	Project emissions are zero as per the requirement of the methodology and registered CDM PDD.

Calculation of leakage GHG emissions

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the project activity. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan
Conclusion	Leakage emissions are not applicable according to the applied methodology and registered CDM PDD

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	No lack of evidence and missing data were detected during this monitoring period. All values as per the monitoring plan were crosschecked by the verification team against basic monitored data and the calculations were found to be correct. The verification team confirms that all assumptions, emission factors and default values have been correctly justified. All the emission factors, application of maximum permissible errors and default values are explicitly mentioned in the monitoring report. Hence the VVB confirms that the methods and formulae used to obtain the emissions are appropriate. No reporting risks have been identified for the data reported. Troubleshooting procedure, maintenance and calibration of monitoring equipment, monitoring measurements and reporting, record handling and maintenance, reviewing monitored data are available at the plant. All the monitored data are archived partially in electronic and paper form. The data will be kept for the whole crediting period and 2 years after the last crediting period thereby meeting the requirement of the monitoring plan.
Conclusion	The formulae and the methods referred in the MR and the emission reduction calculation spread sheet comply with the methods described in the registered PDD. No lack of evidence and missing data were detected during this monitoring period. All values as per the monitoring plan were crosschecked by the

	verification team against basic monitored data and the GHG emission calculation is found correct. TUV SUD confirms that all assumptions, emission factors and default values have been correctly justified. All the emission factors and default values are explicitly mentioned in the monitoring report. Calculations applied formulae and method for calculation of GHG emission are in accordance with the registered monitoring plan and are in line with the requirements of VCS, the applied methodology and p. 372, p.373 of CDM VVS PA ver 2.0.
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4.6 Non-Permanence Risk Analysis

Not applicable.

5 VERIFICATION CONCLUSION

The VVB confirms that

- the development and maintenance of records and reporting procedures are in accordance with the registered monitoring plan;
- the project is operated as planned and described in the project design document approved by the EB;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;
- the monitoring plan in Monitoring Report is as per the PDD and monitoring plan approved by the EB;
- the approved monitoring plan in the approved PDD is as per the applied methodology;
- There is an audit trail that contains the evidence and records that validate the stated figures.

Based on the information we have seen and evaluated, we confirm that the project activity achieved the verified amount of reductions in anthropogenic emissions by sources of greenhouse gases that would not have occurred in the absence of the project activity

Verification period: From 01 January 2018 to 31 October 2020

Verified GHG emission reductions and removals in the above verification period:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2018	1,167,362	0	0	1,167,362
2019	1,256,820	0	0	1,256,820
2020	1,142,304	0	0	1,142,304
Total	3,567,486	0	0	3,567,486

APPENDIX 1: DOCUMENTS REVIEWED

No.	Author	Title	References to the document
1	EKI Energy Services	VCS MR – Version 2.0	01/12/2020
2	UNFCCC	CDM VVS for PA v2.0	-
3	UNFCCC	ACM0002 – “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, Version 17	-
4	HPSCB	Commissioning certificates for Unit I	28/10/2004
5	HPSCB	Commissioning certificates for Unit II	28/10/2004
6	HPSCB	Commissioning certificates for Unit III	28/10/2004
7	Jaiprakash Power Ventures Limited	Ownership transfer documents	11/11/2020
8	Power Grid Corporation of India Ltd	Calibration certificates for energy meters – HPU06213	01/01/2018 to 31/10/2020
9	Power Grid Corporation of India Ltd	Calibration certificates for energy meters – HPU06214	01/01/2018 to 31/10/2020
10	Power Grid Corporation of India Ltd	Calibration certificates for energy meters – HPU06215	01/01/2018 to 31/10/2020
11	Power Grid Corporation of India Ltd	Calibration certificates for energy meters – HPU06216	01/01/2018 to 31/10/2020
12	Power Grid Corporation of India Ltd	Calibration certificates for energy meters – HPU06260	01/01/2018 to 31/10/2020
13	Power Grid Corporation of India Ltd	Calibration certificates for energy meters – HPU06261	01/01/2018 to 31/10/2020
14	Power Grid Corporation of India Ltd	Calibration certificates for energy meters – HPU06262	01/01/2018 to 31/10/2020
15	Power Grid Corporation of India Ltd	Calibration certificates for energy meters – HPU06263	01/01/2018 to 31/10/2020
16	State Electricity Board	Joint Meter Reading	01/01/2018 to 31/10/2020
17	JSW Hydro Energy Ltd	Monthly Invoices	01/01/2018 to 31/10/2020
18	Verra	VCS Standard v4.0	-
19	Jaiprakash Power Ventures Limited	Communication agreement to VCS for change in company name	11/11/2020