

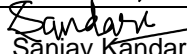
# **Project Verification Report**

2021

COVER PAGE	
Project Verification Report Form (VR)	
Complete this form in accordance with the instructions.	
BASIC INFORMATION	
Name of approved UCR Project Verifier / Reference No.	Mr Sanjay Kandari (Independent Verifier)
Type of Accreditation	<input type="checkbox"/> CDM or other GHG Accreditation <input type="checkbox"/> ISO 14065 Accreditation <input checked="" type="checkbox"/> Individual Verifier Approved by UCR and Having the CDM/GHG and ISO14064 experience
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	Scope: 1 Energy Industries (Renewable/Non-Renewable)
Validity of UCR Approval of Verifier	10/01/2022 Onward
Completion date of this VR	11/04/2022
Title of the project activity	4.9 MW Darna Small Hydro Electric Project in Nashik District of Maharashtra
Project reference no. (as provided by UCR Program)	074

<b>Name of Entity requesting verification service</b> (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	DLI Power (India) Private Limited
<b>Contact details of the representative of the Entity, requesting verification service</b> (Focal Point assigned for all communications)	6, Shiv Wastu, Tejpal Scheme, Road No.5, Vile Parle, Mumbai - 400057, Maharashtra, India
<b>Country where project is located</b>	India
<b>Applied methodologies</b> (approved methodologies by UCR Standard used)	AMS-I.D.: "Grid connected renewable electricity generation", version 18
<b>GHG Sectoral scopes linked to the applied methodologies</b>	Scope: 1 Energy Industries (Renewable/Non-Renewable)
<b>Project Verification Criteria:</b> Mandatory requirements to be assessed	<input checked="" type="checkbox"/> UCR Standard <input checked="" type="checkbox"/> Applicable Approved Methodology <input checked="" type="checkbox"/> Applicable Legal requirements /rules of host country <input checked="" type="checkbox"/> Eligibility of the Project Type <input checked="" type="checkbox"/> Start date of the Project activity <input checked="" type="checkbox"/> Meet applicability conditions in the applied methodology

	<input checked="" type="checkbox"/> Credible Baseline <input checked="" type="checkbox"/> Do No Harm Test <input checked="" type="checkbox"/> Emission Reduction calculations <input checked="" type="checkbox"/> Monitoring Report <input checked="" type="checkbox"/> No GHG Double Counting <input type="checkbox"/> Others (please mention below)
<b>Project Verification Criteria:</b> Optional requirements to be assessed	<input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria <input type="checkbox"/> Social Safeguards Standard do-no-harm criteria
<b>Project Verifier's Confirmation:</b> The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:	<p>The UCR Project Verifier [<i>Sanjay Kandar</i>], certifies the following with respect to the UCR Project Activity [<i>4.9 MW Darna Small Hydro Electric Project in Nashik District of Maharashtra</i>].</p> <p><input checked="" type="checkbox"/> The Project Owner has correctly described the Project Activity in the Project Concept Note (dated <i>14/01/2022</i>) including the applicability of the approved methodology [<i>AMS-I.D.: "Grid connected renewable electricity generation", version 18</i>] and meets the methodology applicability conditions and has achieved the estimated GHG emission reductions, complies with the monitoring methodology and has calculated emission reductions estimates correctly and conservatively.</p>

	<p><input checked="" type="checkbox"/> The Project Activity is likely to generate GHG emission reductions amounting to the estimated [89,495] TCO<sub>2e</sub>, as indicated in the PCN, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable UCR rules, including ISO 14064-2 and ISO 14064-3.</p> <p><input checked="" type="checkbox"/> The Project Activity is not likely to cause any net-harm to the environment and/or society</p> <p><input checked="" type="checkbox"/> The Project Activity complies with all the applicable UCR rules<sup>1</sup> and therefore recommends UCR Program to register the Project activity with above mentioned labels.</p>
<b>Project Verification Report, reference number and date of approval</b>	<p>UCR Ref. No. 074</p> <p>Approved 11/04/2022</p>
<b>Name of the authorised personnel of UCR Project Verifier and his/her signature with date</b>	<p> Sanjay Kandari</p> <p>11/04/2022</p>

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# PROJECT VERIFICATION REPORT

## Executive summary

>> Sanjay Kandari (Individual Verifier) has been commissioned by “DLI Power (India) Private Limited” to perform an independent UCR verification of its project, “4.9 MW Darna Small Hydro Electric Project in Nashik District of Maharashtra”, UCR ref. no. 074 for the reported GHG emission reductions for the given monitoring period from 01/01/2014 to 31/12/2021 (both dates included). The UCR projects must undergo independent third-party verification and certification of emission reductions as the basis for issuance of ‘Carbon Units’ (CoU).

The objectives of this verification exercise are, by review of objective evidence, to establish that:

- The project activity has been implemented and operated as per the registered PCN<sup>4/</sup> and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- Monitoring report and other supporting documents are complete;
- The actual monitoring systems & procedures and monitoring report conforms with the requirements of the approved monitoring plan and the approved monitoring methodology;
- The data is recorded and stored as per the monitoring methodology and approved monitoring plan.

### Scope:

The scope of the verification is the independent and objective review and ex post determination of the monitored reductions in GHG emission by the project activity. The verification is based on review of monitoring report, supporting information and

- a) The registered PCN, including the monitoring plan and the corresponding validation opinion(s);
- b) Previous verification reports, deviation requests, requests for revision of monitoring plan;
- c) Monitoring report for the monitoring period under verification including CoU calculations sheets and all supporting documents;
- d) The applied monitoring methodology
- e) Relevant decisions, clarifications and guidance from the UCR;
- f) All information and references relevant to the project activity, resulting in emission reductions;
- g) The project is assessed against the requirements of the UCR.

Verifier has, based on the recommendations in the latest version of UCR requirements for project activity, employed a rule-based approach in the verification, focusing on the identification of significant reporting risks and the reliability of project monitoring.

### Description of project:

The project is designed to generate electricity for grid system using available water resource. The technology involved for power generation is, converting the potential energy available in the water flow into mechanical energy using hydro turbines and then to electrical energy using alternators.

The project activity comprises of 2 horizontal shaft Kaplan hydro turbine generators having capacity of 2450 kW each with aggregated installed capacity of 4.90 MW, located in the village Nandgaon of Nashik district in the state of Maharashtra in India. This small-scale Hydro Power project has already been commissioned on 11/01/2011. Commissioning certificate verified by the verification team to confirm the date of commissioning. The project was found implemented and operated in line with the information provided in the PCN.

## Project Verification team, technical reviewer and approver

### Project Verification team

No.	Role	Last name	First name	Affiliation (e.g. name of central or other office of UCR Project Verifier or outsourced entity)	Involvement in		
					Doc revi ew	Off- Site insp ecti on	Inter view s
1.	Team Leader	Kandari	Sanjay	UCR Project Verifier	√		√

## Means of Project Verification

### Desk/document review

The project activity generates hydro-electric power utilising naturally available potential energy in the 2 horizontal shaft Kaplan hydro turbine generators having capacity of 2450 kW each with aggregated installed capacity of 4.90 MW, located in the village Nandgaon of Nashik district in the state of Maharashtra in India. This small-scale Hydro Power project has already been commissioned on 11/01/2011.

Through document review in conjunction with the interview with the plant personnel, the verification team confirms that all physical features of the project activity including technology, data collection systems and storage systems have been implemented in accordance with the revised project design document.

The monitoring plan requires the ex-post monitoring of the electricity supplied by the project activity ( $EG_{BL,y}$ ) to the national grid, calculated based on measured values of electricity export ( $EG_{export,y}$ ) and electricity import ( $EG_{import,y}$ ) through energy meters installed at grid interface points. It also requires monitoring of  $F_y$  i.e. quantity of fossil fuel i (diesel) combusted in the project activity for Diesel Generator set used as a backup source of electricity using log book records of diesel consumption measured using level gauge.

The energy meters were found to be installed at the respective places as observed through captured photographs by the verification team and through the live video during the remote assessment.

The verification team has reviewed the power purchase agreement to confirm that the power from the project activity is being supplied to the grid in compliance to the applied methodology AMS-I.D: Grid connected renewable electricity generation, Ver. 18.

The power from the project activity is being sold to the local DISCOM (Distribution Company) named 'Maharashtra State Electricity Distribution Company Limited' (MSEDCL) in the state of 'Maharashtra' where the project activity is implemented. Verification team has reviewed the copies of 'Joint Meter Readings' and invoices raised by the project proponent to confirm the same.



The installed equipment such as turbines, generators, transformers and meters (location, serial number, class, manufacturer, etc.) were verified from the photographic evidences and found to be consistent with the information provided in the MR.

The project boundaries and all key equipment are in line with the registered PDD. The verification team confirmed during the remote auditing (video conferencing) that the CDM project is completely operational and the name plate details of all key equipment are in line to the registered PDD.

The details of operation of the project activity were cross checked through interviews and found consistent. No major breakdowns have been observed during the monitoring period which has not affected the applicability of the applied methodology as reported in the MR.

The allocation of the responsibilities is followed as described in the registered PDD. Routines for the data archiving are defined and documented. Calculations laid down in the monitoring report are in line with registered PCN.

Interviews were carried out with the plant personals during the audit to verify the actual monitoring system practiced by PO. It was found that the plant personals are well aware of their roles & responsibilities.

The actual monitoring system practiced for the monitoring period is in line with the monitoring plan provided in the registered PDD. Verification team observed a deviation for two months (1st and the last month) of monitoring period and, for accuracy class of energy meters. More details are provided in sections below.

The actual emission reductions are 89,495 tCO<sub>2</sub>e for the current monitoring period,

### Off-site inspection

**Date of off site inspection:**  
**01/04/2022**

No.	Activity performed Off-Site	Site location	Date
1.	Document Review & Interviews	N/A	01/04/2022
...			

### Interviews

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Vijapurkar	Rahul Ganesh	PO	01/04/2022	Project Implementation, Monitoring
2.	Desai	Shashikant B	PO	01/04/2022	Project Implementation, Monitoring
3.	Jadav	Rajendra V	PO	01/04/2022	Project Implementation, Monitoring
4	NA	NA	Carbon Consulting Team of Client	01/04/2022 & 08/04/2022	Project Implementation, Monitoring, UCR Requirements

### Sampling approach

No sampling has been undertaken; full data set reviewed to arrive on a reasonable level of assurance.

## Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
<b>Green House Gas (GHG)</b>			
Identification and Eligibility of project type	-	-	-
General description of project activity	-	-	-
Application and selection of methodologies and standardized baselines	-	-	-
- Application of methodologies and standardized baselines	-	-	-
- Deviation from methodology and/or methodological tool	-	-	-
- Clarification on applicability of methodology, tool and/or standardized baseline	-	-	-
- Project boundary, sources and GHGs	-	-	-
- Baseline scenario	-	-	-
- Estimation of emission reductions or net anthropogenic removals	01	-	-
- Monitoring Report	-	-	-
Start date, crediting period and duration	-	-	-
Environmental impacts	-	-	-
Project Owner- Identification and communication	-	-	-
Others (please specify)	-	-	-
<b>Total</b>	<b>01</b>	<b>-</b>	<b>-</b>

## Project Verification findings

### Identification and eligibility of project type

<b>Means of Project Verification</b>	Verifier checked the monitoring report with “UCR Program Verification Guidance Document, version 01” mentioned and found the project meets all the requirements.
<b>Findings</b>	Nil
<b>Conclusion</b>	The project is renewable energy project and already registered with UCR, the requirements of UCR met for the project type.

### General description of project activity

<b>Means of Project Verification</b>	<p>The project activity generates hydro-electric power utilising naturally available potential energy in the 2 horizontal shaft Kaplan hydro turbine generators having capacity of 2450 kW each with aggregated installed capacity of 4.90 MW, located in the village Nandgaon of Nashik district in the state of Maharashtra in India. This small-scale Hydro Power project has already been commissioned on 11/01/2011.</p> <p>Through document review in conjunction with the interview with the plant personnel, the verification team confirms that all physical features of the project activity including technology, data collection systems and storage systems have been implemented in accordance with the revised project design document.</p>
<b>Findings</b>	Nil

<b>Conclusion</b>	<p>According to UCR Program Verification Guidance Document, version 0 for the verifier confirms that:</p> <ul style="list-style-type: none"> <li>a) The project activity is implemented as per the registered PCN, the project activity was fully commissioned at the time of verification.</li> <li>b) The actual operation of the UCR project activity is in line to the registered PCN, the power generated from the project activity is supplied to national grid through DISCOM.</li> <li>c) The actual emission reductions are lower than the expected emission reductions for the current monitoring period.</li> </ul> <p>Verifier has reviewed the registered PCN including the monitoring plan, the applied monitoring methodology, webhosted<sup>1/</sup> and revised monitoring reports<sup>2/</sup>, relevant decisions from UCR.</p>
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## Application and selection of methodologies and standardized baselines

### (.a.i) Application of methodology and standardized baselines

<b>Means of Project Verification</b>	The verifier was able to confirm that the monitoring plan contained in registered PCN and MR is in accordance with the approved methodology applied for the project activity i.e. AMS-I.D. Grid connected renewable electricity generation, Ver. 18 <sup>7/</sup> .
<b>Findings</b>	Nil
<b>Conclusion</b>	MR complies with the monitoring requirement of the applied approved methodology AMS-I.D. Grid connected renewable electricity generation, Ver. 18 in the context of the project activity.

### (.a.ii) Clarification on applicability of methodology, tool and/or standardized baseline

<b>Means of Project Verification</b>	N/A
<b>Findings</b>	-
<b>Conclusion</b>	-

### (.a.iii) Project boundary, sources and GHGs

<b>Means of Project Verification</b>	Project boundary is in line with the applied methodology.
<b>Findings</b>	Nil
<b>Conclusion</b>	Project boundary is in line with the applied methodology.

### (.a.iv) Baseline scenario

<b>Means of Project Verification</b>	The project activity is installation of a greenfield hydro plant, with a capacity of 4.9 MW, the PO has identified the plausible baseline scenario in accordance with applied simplified baseline and monitoring methodology AMS ID, version 18 as, <i>"Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants."</i>
<b>Findings</b>	Nil
<b>Conclusion</b>	The identification (assumptions and data used) of baseline scenario to the project has been correctly applied and is in accordance with applied

	methodology and justified, deemed reasonable and is based on objective evidences in context to the project activity.
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**(.a.v) Estimation of emission reductions or net anthropogenic removal**

<b>Means of Project Verification</b>	<p>According to the approved methodology AMSID, version 18, emission reductions are calculated as follows:</p> <p>Where:  <math>ER_y = BE_y - PE_y</math></p> <p>Where:  <math>ER_y</math> = Emission reductions in year <math>y</math> (tCO<sub>2</sub>e/yr)  <math>BE_y</math> = Baseline emissions in year <math>y</math> (tCO<sub>2</sub>/yr)  <math>PE_y</math> = Project emission in year <math>y</math> (tCO<sub>2</sub>e/yr)</p> <p><b>Baseline Emissions</b></p> <p>As per the approved methodology paragraph 39 of AMS-I.D, version 18, baseline emissions include only CO<sub>2</sub> emissions from electricity generation in power plants that are displaced by the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants. The baseline emissions are to be calculated as follows:</p> $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ <p>Where:  <math>BE_y</math> = Baseline emissions in year <math>y</math> (tCO<sub>2</sub>/yr)  <math>EG_{PJ,y}</math> = 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 <math>y</math> (MWh/yr)  <math>EF_{grid,CM,y}</math> = Combined margin CO<sub>2</sub> emission factor for grid connected power generation in year <math>y</math></p>
<b>Findings</b>	CL#01 is raised and closed satisfactorily.
<b>Conclusion</b>	<p>It is confirmed by the verifier that the CoU against all referenced data sources and the requirements of applied methodology and methodological tools that:</p> <ol style="list-style-type: none"> <li>All data sources and assumptions used are listed and referenced in the PCN and are appropriate. Calculations are correct, applicable to the proposed UCR project activity and will result in a conservative estimation of the emission reductions;</li> <li>All documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PCN/2/;</li> <li>All values used in the PCN /2/ are considered reasonable in the context of the proposed UCR project activity;</li> <li>The baseline methodology has been applied correctly to</li> </ol>

	<p>calculate project emissions, baseline emission, leakage emission and emission reductions.</p> <p>All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PDD /2/ and annexure.</p>
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**(.a.vi) Monitoring Report**

<b>Means of Project Verification</b>	Verifier checked the monitoring report with “Instructions for filling out the monitoring report form” mentioned as attachment to Monitoring report form (version 01.0).
<b>Findings</b>	No findings raised.
<b>Conclusion</b>	Verifier confirms that final monitoring report is completed using the latest valid version of the applicable monitoring report form.

**Start date, crediting period and duration**

<b>Means of Project Verification</b>	Start date of crediting period is in line with the registered PCN.
<b>Findings</b>	No findings raised.
<b>Conclusion</b>	Verifier confirms that final monitoring report is states the correct crediting period and it is in line with the PCN on the UCR web

**Positive Environmental impacts**

<p><b>Means of Project Verification</b></p>	<p>The project is resulting in a net carbon positive emission reduction (COUs) and same has been transparently reported in the submitted MR suPOorted with the ER spreadsheet. The calculation is verified with the respective data sets.</p> <p>The verifier has reviewed the emission reduction (ER) spread sheet /2.2/ and checked all the formulae and verified them to be correct and in line with the monitoring plan of the registered PCN and the applied monitoring methodology /10/.</p> <p>All the monitored parameters are described in MR. All the ex-ante parameters which are used in the calculation of emission reduction are presented in in MR /1.2/ transparently. It is confirmed that all the ex-ante parameters have been correctly used in the emission reduction calculation.</p> <p>Baseline emissions:  The baseline emissions (BE<sub>y</sub>) are calculated based on the following formula:  <math>BE_y = EGPJ, y \times EF_{grid, CM, y}</math>  Where:  BE<sub>y</sub>: Baseline emissions in year y (tCO<sub>2</sub>e/yr)  EGPJ, 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<sub>grid, CM, y</sub>: Baseline emission factor (tCO<sub>2</sub>e/MWh) in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO<sub>2</sub>e/MWh)  It is fixed ex-ante for the duration of the crediting period and is 0.9653 tCO<sub>2</sub>e -MWh.  Therefore,  <math>BE_y = BE_y = EGPJ, y \times EF_{grid, y}</math>  BE<sub>y</sub>=89503</p> <p>It is noted that the formula and calculation used for baseline emission calculation in the monitoring report and ER sheet /2.2/ is in compliance with the registered PCN/3/. The default values and data used in the monitoring report /1.2/ is in-line with the registered PD/3/. Hence, acceptable to the verification team.</p> <p>Project Emissions:  <math>PED_{Diesel} = \sum DCy \times P \times NCVD_{Diesel} \times EF_{CO2Diesel}</math>  Where,  PED<sub>Diesel</sub> = Project Emission due to use of Diesel consumed during this monitoring period in DG set  DC<sub>y</sub> = Diesel Consumption in Litres (L)  P = Density of Diesel (0.86Kg/Lit)  NCVD<sub>Diesel</sub> = Net Calorific Value of Diesel  EF<sub>CO2Diesel</sub> = IPCC 2006 Emission factor for Diesel  PE<sub>y</sub>= PED<sub>Diesel</sub>=5.515</p> <p>Here,  Monitoring Period: Total Diesel consumption (Liter) Total Project Emissions  (tCO<sub>2</sub>e/ year)</p> <p>* Rounded up value has been considered across the two vintages, which is the most conservative value; hence considered. Detail calculation to be referred from the ER sheet.</p> <p>Leakage:  As per the methodology and as defined in the registered PCN no leakage</p>
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	<p>is considered in the project activity and the same is followed in this monitoring period also. Thus, it is in compliance with the registered PCN. The following are the ex-ante parameters used in the ER calculation which are in compliance with registered PCN.</p> <p><b>The final net ER value considered for claim for the current monitoring period after applying the rounded down function on each vantage/year based on the conservative grounds.</b></p> <p><b>= 89,495 tCO<sub>2</sub>e (i.e., 89,495 CoUs)</b></p>
<b>Findings</b>	Nil
<b>Conclusion</b>	Th project is resulting in a net carbon positive emission reduction (COUs) and same has been transparently reported in the submitted MR supported with the ER spreadsheet.

### Project Owner- Identification and communication

<b>Means of Project Verification</b>	PO has declared that the project is not registered in other GHG programs; PO confirmed that the project will only be going forward with UCR registry, as declared in MR. Thus, emission reductions generated by project will be solely claimed by PO and PO has the right of use, which is acceptable. Net GHG emission reductions or removals generated by this project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions as the host country i.e., India is not a participant in any emission trading programs or nor does it have any binding limits.
<b>Findings</b>	Nil
<b>Conclusion</b>	PO will not claim any other the environmental/carbon credits under any other GHG emission reduction scheme for the crediting period under UCR and PO has provided declaration on the same during the validation. Hence, there is no possibility of double counting.

### Positive Social Impact

<b>Means of Project Verification</b>	Not reported by PO.
<b>Findings</b>	-
<b>Conclusion</b>	-

### Sustainable development aspects (if any)

<b>Means of Project Verification</b>	Not reported by PO.
<b>Findings</b>	-
<b>Conclusion</b>	-

### Internal quality control

Following the completion of the assessment process and a recommendation by the verifier provided after undertaking all due diligence. Verifier has experience of more than 500 GHG audits under various sectors and having more than 13 years of experience explicitly in GHG auditing. Therefore, it can be confirmed that all standard auditing techniques applied to complete the verification task, and it's the responsibility of

verifier that the reported COUs are calculated in an adequate manner by compiling all the requirements of methodology in conjunction with UCR standard.



## Project Verification opinion

It is my responsibility to express an independent GHG verification opinion on the GHG emissions and on the calculation of GHG emission reductions from the project for the verified monitoring period based on the reported emission reductions in the final monitoring report for the same period.

Based on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these, verifier planned and performed work to obtain the information and explanations that we considered necessary, to provide sufficient evidence for us to give reasonable assurance that this reported amount of GHG emission reductions for the period is fairly stated.

KBS confirms the following;

**Reporting period:** From 01/01/2014 to 31/12/2021

**Verified emission in the above reporting period:**

	Amount	Unit
Baseline emissions (BE)	89,503	tCO <sub>2</sub> e
Project emissions (PE)	6	tCO <sub>2</sub> e
Leakage emissions (LE)	0	tCO <sub>2</sub> e
<b>Total ERs (31/05/2013 to 30/05/2020)</b>	<b>89,495 (Rounded down)</b>	<b>tCO<sub>2</sub>e</b>

### Vantage Wise Breakup of COUs

Year	Unit	Value
2014	tCO <sub>2</sub> e	4,123
2015	tCO <sub>2</sub> e	9,541
2016	tCO <sub>2</sub> e	10,154
2017	tCO <sub>2</sub> e	11,926
2018	tCO <sub>2</sub> e	16,080
2019	tCO <sub>2</sub> e	9,577
2020	tCO <sub>2</sub> e	14,698
2021	tCO <sub>2</sub> e	13,396
<b>Total COUs:</b>	<b>tCO<sub>2</sub>e</b>	<b>89,495</b>

## Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CDM EB	CDM Executive Board
CL	Clarification Request
CO <sub>2</sub> e	Carbon dioxide equivalent
COU	Carbon Offset Units
DISCOM	Distribution Company
DNA	Designated National Authority
DG	Diesel Generator
DOE	Designated Operational Entity
EF	Emission Factor
ERs	Emission Reductions
FAR	Forward Action Request
GHGs	Greenhouse Gas(es)
JMR	Joint Meter Reading
kWh	Kilo Watt Hour
LE	Leakage Emissions
MR	Monitoring Report
MP	Monitoring Plan
MWh	Mega Watt Hour
PE	Project Emissions
PCN	Project Concept Note
PS	Project Standard
PO	Project Owner
QA/QC	Quality Assurance/Quality Control
t	Tonnes

### Document reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	PO	Initial MR	Version 01 dated 29/03/2022	PO
2.	PO	Final MR	Version 02 dated 09/04/2022	PO
3.	PO	ER Spread sheet	corresponding to MR Version-2	PO
4.	PO	Registered PCN,	UCR Website	UCR
5.	PO	Calibration certificates pertaining to the monitoring period.	Corresponding to MP	PO
6.	PO	ER calculation spread sheet	-	PO
7.	PO	Operational Procedures	-	PO
8.	PO	Operational Logbook	Corresponding to MP	PO
9.	PO	Commissioning certificates	-	PO
10.	PO	Power Purchase agreement between PO and DISCOM	-	PO

### Competence of team members and technical reviewers

Key Tasks Undertaken in GHG	Maintained the compliance of CDM accreditation standard in the previous organization as 'Head Climate Change'.
	Prepared of internal policies and procedures to comply with UNFCCC accreditation standard.
	Managed the external audits, performance assessments of KBS by UNFCCC.
	Independent technical review of validation and verification projects.
	Managed the project work flow from contract review to validation/verification to registration/issuance.
	<ul style="list-style-type: none"> <li>Performed Validation and Verification of CDM/VCS projects (including site visits) as Team Leader/TR.</li> <li>Maintaining EnMS (ISO50001:2018) accreditation and undertaking EnMS audits as lead auditor.</li> <li>Imparting EnMS trainings</li> <li>Undertaking ISO14064 training/audits</li> <li>Qualified in technical areas 1.1,1.2,3.1,13.1 &amp; 13.2</li> </ul>
Achievements	Successfully executed more than 500 validation/verification (Climate change) projects in ten years at KBS in the role of team leader and technical reviewer.
	Successfully executed projects in Vietnam, Sri Lanka, Malaysia, Nigeria, Kenya, Bhutan, Myanmar, Malawi, Madagascar, Rwanda, Colombia, Mexico India etc.
	<ul style="list-style-type: none"> <li>➤ Successfully led the 2 projects opted by UNFCCC for the performance assessment of DOE and resulted in positive outcome.</li> <li>➤ Successfully witnessed by NABCB as ISO14064 lead auditor for a witness assessment.</li> <li>➤ Witnessed by two accreditation bodies for ISO50001 lead auditor.</li> </ul>

## Clarification request, corrective action request and forward action request

Table 1. CLs from this Project Verification

<b>CL ID</b>	01	<b>Section no.</b>	a.v	<b>Date:</b> 09/04/2022
<b>Description of CL</b>				
Calculation of project emission due to diesel consumption is not reported in MR through the same has been accounted for in the ER spread sheet. The reasoning behind the same shall be clarified.				
<b>Project Owner's response</b>				<b>Date:</b> 09/04/2022
The MR has been revised and the demonstration is included in the revised MR.				
<b>Documentation provided by Project Owner</b>				
Revised MR				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> 09/04/2022
Revised MR found meeting the requirements of demonstrating the base line and project emissions separately. Finding is closed now.				

Table 2. CARs from this Project Verification

<b>CAR ID</b>	xx	<b>Section no.</b>		<b>Date:</b> DD/MM/YYYY
<b>Description of CAR</b>				
<b>Project Owner's response</b>				<b>Date:</b> DD/MM/YYYY
<b>Documentation provided by Project Owner</b>				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> DD/MM/YYYY

Table 3. FARs from this Project Verification

<b>FAR ID</b>	xx	<b>Section no.</b>		<b>Date:</b> DD/MM/YYYY
<b>Description of FAR</b>				
<b>Project Owner's response</b>				<b>Date:</b> DD/MM/YYYY
<b>Documentation provided by Project Owner</b>				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> DD/MM/YYYY

## APOendix 1

Energy Meter Details applicable for the project activity verified during the verification.:

Details	Gross Meter		Main Meter	Additional Check meter
	Unit #1	Unit #2		
Serial Number	D0008420	D00088421	HT01160009	HT01150036
Make	Secure	Secure	Wallaby	Wallaby
Meter accuracy	0.2	0.2	0.2	0.2
Meter CT Ratio	600/ 1 A	600 / 1 A	-/1A	-/1A
Meter PT Ratio	3.3. kV/110 V	3.3. kV/110 V	11 kV/110 V	3.3. kV/110 V
Latest testing date:	25/08/2020	25/08/2020	25/08/2020	25/08/2020

Meter Testing Details:

Gross Generation Meter		Billing Main Meter	Additional Check Meter	Remarks
Unit # 1	Unit # 2			
SECURE ELITE 115 D0008420	SECURE ELITE 115 D0008421	ELSTER M++ 05123037	ELSTER M++ 05126103	Meters installed before January 2014
18-Jan-14	18-Jan-14	16-Jan-14	16-Jan-14	
5-Jul-14	5-Jul-14	4-Jul-14	4-Jul-14	
4-Feb-15	4-Feb-15	3-Feb-15	3-Feb-15	
4-Jul-15	4-Jul-15	3-Sep-15	3-Sep-15	Billing Main and Additional Check Meters replaced on 11/09/2015
No Change	No Change	EDMI Mk6E HT01150079	EDMI Mk6E HT01150081	
1-Jun-16	1-Jun-16	14-May-16	14-May-16	
4-Feb-17	4-Feb-17	4-Feb-17	4-Feb-17	
18-Nov-17	18-Nov-17	20-Nov-17	14-Dec-17	
No Change	No Change	EDMI Mk6E HT01160009	EDMI Mk6E HT01150036	Billing Main and Additional Check Meters replaced
4-Jul-18	4-Jul-18	7-Jul-18	7-Jul-18	
29-Jun-19	29-Jun-19	22-Jun-19	22-Jun-19	
-	-	19-Feb-20	19-Feb-20	
25-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20	
-	-	12-Jan-22	12-Jan-22	