



# VERIFICATION REPORT FOR

## “1.6 MW BUNDLED RICE HUSK BASED COGENERATION PLANT BY M/S MILKFOOD LIMITED (MFL) IN PATIALA (PUNJAB) & MORADABAD (U.P) DISTRICTS”



Document Prepared By LGAI Technological Center, S.A. (Applus+ Certification)

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| <b>Project Title</b> | 1.6 MW Bundled Rice Husk Based Cogeneration Plant by M/s Milk food Limited (MFL) in Patiala (Punjab) & Moradabad (U.P) Districts |
| <b>Version</b>       | 2.1                                                                                                                              |
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| <b>Report Title</b> | Verification Report for “1.6 MW Bundled Rice Husk Based Cogeneration Plant by M/s Milk food Limited (MFL) in Patiala (Punjab) & Moradabad (U.P) Districts ” |
| <b>Client</b>       | M/s Milk Food Limited<br>M/s Enen Green Services Private Limited                                                                                            |

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| <b>Prepared By</b>         | LGAI Technological Center, S.A. (Applus+ Certification)                                                                                                                                                                     |
| <b>Contact</b>             | Campus UAB – Ronda de la Font del Carme, s/n<br>08193 Bellaterra – Barcelona (Spain)<br>Tel.:+34 93 567 20 08<br>Fax.:+34 93 567 20 01<br>www.appluscertification.com<br>agustin.calle@applus.com<br>carla.debat@applus.com |
| <b>Approved By</b>         | LGAI Technological Center S.A. (Applus+ Certification)<br>VVB Technical Manager – Mr. Agustín Calle de Miguel                                                                                                               |
| <b>Work Carried Out By</b> | Lead Auditor & Technical Expert: Vivek Kumar Ahirwar,<br>Technical Reviewer & Technical Expert: Simon Shen                                                                                                                  |

### Summary:

LGAI Technological Center, S.A. (here after referred as Applus+ Certification) has been contracted by M/s Milk Food Limited to conduct the verification of the project “1.6 MW Bundled Rice Husk Based Cogeneration Plant by M/s Milk food Limited (MFL) in Patiala (Punjab) & Moradabad (U.P) Districts”, VCS ID 784, against VCS Standard Version 4.1.

The verification includes confirming the implementation of the monitoring plan of the registered VCS PD and MR (Project ID 784) and the application of the monitoring methodologies as per AMS I.C. version 21: “Thermal Energy production with or without electricity” & AMS I.D version 18: “Grid connected renewable electricity generation”. A Verification On-site visit was conducted to verify the data submitted in the monitoring report.

The purpose of this project activity is to utilize rice husk (biomass) available in the region for cogeneration of steam and electricity for captive consumption at two locations of M/s Milk Food Limited viz. Patiala and Moradabad. The Enen Green Services Private Limited is a new project proponent which include in project as VCS Project Consultant & Support for VCS project execution.

A risk based approach has been followed to perform this verification. In the course of verification, 08 Corrective Action request (CARs) and 01 Clarification request (CRs) were raised and successfully closed. 00 Forward Action Request (FARs) raised during the validation of renewal crediting period is also closed.

The review of the project design documentation, monitoring report and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up

interviews and stakeholders have provided Applus+ Certification with sufficient evidence to validate the fulfilment of the stated criteria.

Applus+ Certification confirms that the project is implemented in accordance with the registered VCS PD & MR. The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the projects GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information seen and evaluated we confirm that the emission reductions from the project activity “1.6 MW Bundled Rice Husk Based Cogeneration Plant by M/s Milk food Limited (MFL) in Patiala (Punjab) & Moradabad (U.P) Districts” in India during the period 06/05/2019 to 31/12/2020 (including both days) amount to 109,051 tonnes of CO<sub>2</sub>e.

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# 1. INTRODUCTION

## 1.1 Objective

Applus+ Certification has been contracted by M/s Milk Food Limited (project proponent), to undertake the verification of the renewable energy project titled “1.6 MW Bundled Rice Husk Based Cogeneration Plant by M/s Milk food Limited (MFL) in Patiala (Punjab) & Moradabad (U.P) Districts”(VCS ID- 784) The verifiers have reviewed the GHG data collected to date for the monitoring period from 06/05/2019 to 31/12/2020 (both days included) covered in this verification. The objective of this verification is a thorough and independent assessment of registered project activities against the applicable VCS requirement by the VVB The verification process shall determine whether the proposed project activity complies with the requirements of latest VCS guidelines, applicability conditions of the selected methodology, relevant host country regulations and guidance issued by the VCS Board.

## 1.2 Scope and Criteria

The scope of the verification was the independent and objective review and ex-post determination of the monitored reductions in GHG emissions from “1.6 MW Bundled Rice Husk Based Cogeneration Plant by M/s Milk food Limited (MFL) in Patiala (Punjab) & Moradabad (U.P) Districts”. The verification of this project was based on the registered project description/01/ & monitoring report /04/ and supporting documents submitted by the project proponent to the verification team. The documents were reviewed against the following guidance and protocols:

VCS Standard: Version 4.1, dated 22/04/2021/17/

Approved methodologies for small-scale CDM Project activities:

AMS I.C, version 21, Title “Thermal Energy production with or without electricity”/10/

AMS I.D, version 18, Title “Grid connected renewable electricity generation”./10/

VCS Program Definitions (v4.1, dated 15/04/2021) /19/

VCS Program Guide, Version 4.0, 19/09/2019 /18/

ISO 14064-3: Specification with guidance for the validation and verification of greenhouse gas assertions, 2006

The verification is not meant to provide any consulting towards the client. However, stated request for clarifications and/or corrective actions may provide input for improvement of the project design.

### 1.3 Level of Assurance

The level of assurance of the verification report falls under reasonable assurance engagements as selected by the Client. The verification team verified the complete monitoring data for all the parameters of the monitoring plan and confirms that the reported emission reductions are free from any type of material errors. Materiality for the project is 5%.

### 1.4 Summary Description of the Project

The project activity utilizes rice husk available in the region for steam and electricity generation for captive consumption in industrial process of MFL. The project undertaken is a bundle of two cogeneration plants of capacity 1.0 MW (with 14TPH steam generation) and 0.6 MW (with 12 TPH steam generation) located at Bahadurgarh, Patiala in the state of Punjab and Mugulpur, Moradabad in the state of Uttar Pradesh respectively. The Enen Green Services Private Limited has joined as a new project proponent in VCS project which provided the VCS project consultancy and support for proper execution and management of VCS project. The project activity results in reductions of greenhouse gas (GHG) emissions that are real, measurable, and verifiable and also plays beneficial role in the mitigation of climate change. The PP has monitored net electricity supplied to the electrical equipment and net steam supplied to process heat requirement during current monitoring period from 06/05/2019 to 31/12/2020. The calculation was assessed by the verification team and deemed as correct. Due to the project activity, the power supply had partially been displaced which was imported from NEWNE grid through respective state electricity grids and the steam generated from coal fired boiler had completely displaced by the new rice husk based co-generation plant.

The project proponent has applied the baseline methodology for small scale project activities AMS-I.D “Grid connected renewable electricity generation”, version 18. The baseline scenario for the proposed project activity is the grid-connected power plants and by the addition of new generation sources into the India national grid. As per CEA database version 15, 0.94193 tCO<sub>2</sub>/MWh has been chosen as ex-ante emission factor of national grid of India and it has been used for the calculating the baseline emissions as per the methodology.

The project proponent has also applied the baseline methodology for small scale project activities AMS-I.C “Thermal Energy production with or without electricity”, version 21. The baseline scenario for the proposed project activity for steam generation was coal base boilers. The efficiency of the boiler using coal that would have been used in the absence of the project activity has been considered as 82% and chosen as ex-ante and it has been used for the calculating the baseline emissions as per the methodology.

The verification team has verified the two projects following turbines and boilers with below specifications:

Boilers:

| Parameters        | Units  | Project I:Patiala –Punjab, India | Project II: Moradabad, Uttar Pradesh, India |
|-------------------|--------|----------------------------------|---------------------------------------------|
| Make              | -      | M/s Cheema Boilers Ltd.          | M/S Industrial Boiler Ltd.                  |
| Design Capacity   | TPH    | 14                               | 12                                          |
| Design Pressure   | Kg/cm2 | 45                               | 32                                          |
| Steam Temperature | °C     | 420+/- 5°                        | 400+/-5°                                    |
| Fuel Used         | -      | Rice Husk                        | Rice Husk                                   |

**Turbines:**

| Parameters              | Units  | Project I:Patiala –Punjab, India | Project II: Moradabad, Uttar Pradesh, India |
|-------------------------|--------|----------------------------------|---------------------------------------------|
| Make                    | -      | M/S Pentagon Turbines Pvt. Ltd.  | M/S I.B. Turbo Pvt. Ltd.                    |
| Design Capacity         | kW     | 1000                             | 600                                         |
| Inlet Steam Pressure    | Kg/cm2 | 43                               | 30                                          |
| Inlet Steam Temperature | °C     | 430                              | 360                                         |

Boiler specification was verified through photos of boiler in Verification On- visit and found to be in line with the details provided in the registered PD /01/.

Location of the project was verified through Latlong.net (<https://www.gps-coordinates.net/> ) and found consistent with the data provided in the registered PD /01/.

The project qualifies the start date requirements under VCS and successfully Commissioned on Project activities I & II was 6 May 2009 and 4 June 2009 respectively. It has been checked against the commissioning certificate. Further in line with VCS guidelines, crediting period starts from 6 May 2009 which is earlier commissioned in bundle and hence the 2<sup>nd</sup>crediting period is started from 6 May 2019 and end up-to 5 May 2029.The emission reductions from the project activity during the current monitoring period 06/05/2019 to 31/12/2020 (including both days) amount to 109,051 tonnes of CO<sub>2</sub>e.

## 2 VERIFICATIONPROCESS

The registered VCS project is undergoing first verification under second crediting period, the approach adopted to ensure the quality of emission reductions is described in the following sections.

### 2.1 Method and Criteria

Verification was conducted using Applus+ Certification's procedures in line with the requirements specified in the VCS standard Version 4.1 Requirements, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant decisions of the COP/MOP and the CDM EB and applying standard auditing techniques.

It is to be assessed and determined whether the proposed implementation and operation of the project activity, and the steps taken to report emission reductions comply with the criteria and relevant guidance provided by the VCS Board. The validation/verification process consist of the following three phases;

- A desk review of the VCS PD and VCS MR
- Verification On-Site visit and follow up interviews with project stakeholders
- The resolution of outstanding issues and issuance of final report and opinion.

### 2.2 Document Review

The verification is performed primarily as a document review of the registered VCS PD/01/, previous MR and Verification report and associated documents as stated in details in appendix 1 of this document. The assessment is performed by a verification team using a protocol. The cross checks between information provided in the Monitoring report, VCS PD and information from sources other than those used, if available, the team's sectoral or local expertise and, if necessary, independent background investigations.

### 2.3 Interviews

The representatives of the PP were interviewed during site visit on 10/07/2021 and 11/07/2021. The details of the people interviewed are mentioned in the table

| S N | Name                   | Role                                                                  | Organization                  |
|-----|------------------------|-----------------------------------------------------------------------|-------------------------------|
| 1   | Mr. Amar Baljeet Singh | Chief Operation Officer                                               | MFL                           |
| 2   | Mr. Sanjay Khanna      | DGM(Engg.)                                                            | MFL                           |
| 3   | Mr. R N Singh          | Manger (Maintenance)                                                  | MFL                           |
| 4   | Mr. Vishal Narrang     | Engineer                                                              | MFL                           |
| 5   | Mr. Avinash Sharma     | VCS Project Consultant& Support as a new project proponent in project | Enen Green Services Pvt. Ltd. |

The topics covered during interview ranges from general features and implementation of project to technical details of the project like calibration details, monitoring and measuring

system and data collection, recording and archiving procedures. The assessment was drawn based on the feedback received during telephonic interview coupled with the documentation, photos and observations.

## 2.4 Site Inspections

Site Location visited: Patiala, Panjab & Moradabad, Uttar Pradesh in India.

A Verification On-site visit was undertaken by the verification team on 10/07/2021 and 11/07/2021 to carry out the following;

- a. An assessment of the implementation and operation of the registered project activity as per the registered VCS PD and VCS MR;
- b. A review of information flows for generating, aggregating and reporting the monitoring parameters;
- c. Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the PD;
- d. A cross check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources;
- e. A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD, the applied methodology including applicable tool(s), and, where applicable, the applied standardized baseline;
- f. A review of calculations and assumptions made in determining the GHG data and emission reductions;
- g. An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

## 2.5 Resolution of Findings

The objective of this step is to identify, discuss and conclude on the issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and reporting of emission reductions. This is done based on the desk review and Verification On-site assessment. The verification team prepares and/or updates a verification protocol (internal document) that records the conformities and non-conformities, which may be of following types;

CAR (Corrective Action Request) is raised if one of the following occurs:

- Non-compliance with the monitoring plan, the methodology or the standardized baseline are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient;

- Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;
- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;
- Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

Clarification request (CR) is raised if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met. All CARs and CRs raised by the Applus+ Certification during verification shall be resolved prior to submitting a request for issuance.

FAR (Forward Action Request) is raised during verification if the monitoring and reporting require attention and/or adjustment for the next verification period.

During the current verification, 09 Corrective Action request (CARs) and 01 Clarification request (CRs) and 00 Forward Action Request (FARs) were raised and successfully closed.

All the findings that are raised and communicated to project participant during the verification are included under Appendix 3. The section also includes the response, if provided, by the project participants and an assessment by the verification team if it was closed out or otherwise.

### 2.5.1 Forward Action Requests

Not applicable.

## 2.6 Eligibility for Validation Activities

This section is not applicable for present verification, as Applus+ Certification holds the accreditation for Validation of projects under this Sectoral Scope.

# 3 VALIDATION FINDINGS

## 3.1 Participation under Other GHG Programs

The project is also registered under CDM mechanism of UNFCCC. Reference no of project is 5219. Credits from period 14/02/2012 - 31/01/2014 is claimed CERs under CDM verification. However for the current monitoring period there is no application for verification under CDM mechanism in order to avoid double counting. The PP also confirms that net GHG emission reductions or removals generated during this monitoring period (06/05/2019 to 31/12/2020)

shall not be used for compliance under any other programs or mechanisms. This was confirmed through a declaration/15/ submitted by the PP and hence accepted by the assessment team.

Furthermore,.Audit team checked the REC Mechanism database of India and found that the project activity is not accredited / registered under REC mechanism. Further, declaration for the same is checked and found correct by the assessment team. Also assessment team checked the following registries to confirm the same. The details of the registries checked are as follows:

1. <https://www.recregistryindia.nic.in/>
2. <http://cdm.unfccc.int/>
3. <http://www.goldstandard.org/>

#### **Rejection by other GHG programs**

The Project is not rejected by other GHG programs. A declaration/15/ for the same is checked and found correct by the assessment team. Also assessment team checked the following registries to confirm the same. The details of the registries checked are as follows:

1. <https://www.recregistryindia.nic.in/>
2. <http://cdm.unfccc.int/>
3. <http://www.goldstandard.org/>

### 3.2 Methodology Deviations

There is no methodology deviation identified during the current monitoring period.

### 3.3 Project Description Deviations

There is a deviation from registered project description as [Enen Green Services Private Limited](#) has been added as a project proponent, VVB verified that [Enen Green Services Private Limited](#) and [M/s Milk food Limited](#) have already signed VCS accession representation/22/ on 06-March-2018 and the same was submitted to VERRA already.

### 3.4 Grouped Project

Not applicable. The project activity is not a grouped project

## 4 VERIFICATION FINDINGS

### 4.1 Project Implementation Status

The project activity involves the installation and operation of two cogeneration plants of capacity 1.0 MW (with 14TPH steam generation) and 0.6 MW (with 12 TPH steam generation) located at Bahadurgarh, Patiala in the state of Punjab and Mugalpur, Moradabad in the state of Uttar Pradesh respectively. The two project activities I & II are located at Milk food Limited at P.O. Bahadurgarh and Patiala District of Punjab with latitude 30°21'55.23" N and longitude 76°28'17.59" E and at Village: Mugalpur and Moradabad district of UP with latitude and longitude of 28° 57'43.34" N and 78° 54'20.65" E respectively. The implementation of the project activity was as described in the VCS validated PD, checked against supportive documents presented. The verification team was able to verify that there was no change in project design compared to the design presented in the VCS validated PD; version 03 dated 28/08/2020. The installation and specification of boiler and turbine has been checked with commissioning certificates/12/ and site assessment/20/. The commissioning has also been duly validated in the VCS validation report of the project activity/02/. There was no major breakdown or shut downs during the monitoring period which might affect the applicability of methodology or might cause material errors in emission reductions.

Assessment team concludes the following:

- a) The implementation status of project activity was found to be in compliance with registered PD
- b) VVB has conducted the site visit to confirm the implementation status of the project.

- c) The commissioning date of the project activity was found to be accurately and consistently recorded.
- d) The actual operation of project activity was found to be in compliance with the flow diagram provided in registered PD.
- e) There was no increase in emission reduction from estimates made in registered PD, and hence no further justification to be provided for the same.

### Project's contribution to Sustainable Development

The contributions of proposed project activity towards sustainable development are explained with indicators like social, economical, environmental and technological well-being, as follows:

#### Environmental well-being

The project activity will conserve coal by avoiding the process steam and power generation from coal fired boiler. Also helps in Mitigating the emission of GHG (CO<sub>2</sub>) as rice husk is a carbon neutral fuel.

#### Social well being

The project activity will pave the way for development and increases the social status and living conditions and the prevailing living standard in the vicinity of the project activity and thus results in empowering the nearby population (supplier of the major amount of workforce for construction of the project activity). Also it will contribute to a small increase in the local employment by employing skilled and un-skilled personnel for operation and maintenance of the equipment. This Proposed Project Activity will result in reduced migration of the local population.

#### Economic well being

The project has created a business opportunity during construction phase for local stakeholders such as suppliers, contractors, bankers etc. contributing to economic well-being aspects. Further, the project also influences creation of employment opportunities for local people, which would enhance their social status. Also it Saves the coal and HSD and thus allows it to be diverted to other needy sections of the economy

#### Technological well being

The project activity utilizes biomass as fuel to generate steam and electricity. It is an advanced and sustainable technology for long term benefits. The project activity is expected to increase awareness and interest among the industry players to make investments in similar areas.

## 4.2 Safeguards

### 4.2.1 No Net Harm

There is no negative impact to any socio economic conditions of the region due to the project activity. Being renewable power generation project there is no negative environmental and socio-economic impacts in fact project activity contributes positively by providing environment friendly power generation leading to sustainable development of the region (as referred under the section 1.11). Also, the generation of local employment has directly supported the socio-economic development of the status of the project region.

**Rational:**As per the notifications issued by Ministry of Environment and Forest(Government of India) notification dated 14/09/2006 and notification dated 01/12/2009 (ref: <http://moef.nic.in/downloads/rules-and-regulations/3067.pdf>), regarding the requirement of environmental Impact Assessment (EIA) studies as per the Environmental Protection Rule, 1986 (Published in the Gazette of India, Extraordinary, Part-II, and Section 3, Sub-section (ii) Ministry of Environment and Forests), any project developer in India needs to file an application to the Ministry of Environment and Forests (including a public hearing and an EIA) in case the proposed industry or project is listed in a predefined list. The renewable energy power Projects are not included in this list and thus, Environmental Impact Assessment for the biomass projects is not required to be done.

This project activity will not involve any negative environmental or socio-economic impacts, as the biomass based boiler are installed for generation of steam and power using biomass as fuel in boiler which is a clean source of energy. Hence no mitigation measures are required.

### 4.2.2 Local Stakeholder Consultation

The PP has organized stakeholder consultation meetings on 27<sup>th</sup> July 2009 at Bahadurgath unit Punjab and 30<sup>th</sup> July 2009 at Village Mugalpururf Agwanpur Mustakam unit Moradabad as per the provision of VCS requirements and reported under the validated PD. There was no comment during the consultation, however, PP has also placed a grievance register onsite, wherein, the stakeholders can put down his/her feedback and the same will be addressed on timely manner. However, there is no feedback/grievance has been reported within this monitoring period. Therefore, no corrective action was required to be undertaken. This is verified by VVB through a copy of grievance register.

### 4.3 AFOLU-Specific Safeguards

Not Applicable

### 4.4 Accuracy of GHG Emission Reduction and Removal Calculations

The project monitoring has been carried in accordance with the registered VCS PD/01/ and the monitoring report/04/. The monitoring plan laid in the registered PD is being followed at the site/20/. The assessment team has verified the information flow (from data generation, aggregation, to recording, calculation and reporting for these parameters including the values) in the MR/04/.

The emission reductions are purely based on the net electricity and steam generated from project activity. PP has provided all the sufficient data for current monitoring period. The values of the parameter net electricity generation and steam generation by each project plant used in deriving the GHG emission reduction could be very well correlated between the data sets and ER spreadsheet/05/ provided by PP. the verification of each monitoring parameter has been discussed later in section 4.5.

The calculation method and formulae used in calculating baseline emission and project emission is in compliance to the methodologies used i.e. AMS I.C version 21 and AMS I.D version 18/10/.

### 4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

The below tables describe how the parameter, that is to be measured according to the monitoring plan, has been verified to confirm that the actual monitoring complies with the monitoring plan, monitoring data has been thoroughly assessed and that the calibration requirements are met.

| Parameter             | Net Electricity (EG <sub>PJ,y</sub> )   |                                                                                                                                           |
|-----------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Means of verification | Criteria/Requirements                   | Assessment/Observation                                                                                                                    |
|                       | Measuring /Reading /Recording frequency | The electronic energy meter at the sent out point of the project activity plant is used to measure the data of net electricity generated. |

|  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                            |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                                                                                                          | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                                                                                                                                                                                                                      |
|  | Monitoring equipment                                                                                                                                                                                                                                                                        | <p>Project – I (Patiala –Punjab, India):</p> <p>Equipment : Energy meter</p> <p>Type : Electronic</p> <p>Accuracy : 0.5s</p> <p>Serial number of equipment : 0788005</p> <p>Project – II (Moradabad, Uttar Pradesh, India):</p> <p>Equipment : Energy meters</p> <p>Type : Electronic</p> <p><u>Accuracy</u> : 0.5s</p> <p>Serial number of equipment :104707/227-3706</p> |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used is 0.5s, which is as per the registered PD/01/.                                                                                                                                                                                                                                                                         |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                                                                                                                                                                                                                 |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the                                                                                                                                                                                                                                                                                                                                               |

|  |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |                                                                                                                                                                                                                                                                                | meters is once in 3 years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications? | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                                                                                                                                                                                                                                                                                                                                    |  |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                  | Yes the calibration is conducted by external accredited body./07/.                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                   | Yes. Calibration of meters is valid for the whole reporting period.                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|  | How were the values in the monitoring report verified?                                                                                                                                                                                                                         | <p>Cumulative value of <b>EG<sub>PJ,y</sub></b> for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India):6275.16MWh.</p> <p>Project – II (Moradabad, Uttar Pradesh, India): 5288.51MWh</p> |  |

|            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                             |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|            | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                              |  |
|            | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On-site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable. |  |
| Findings   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                             |  |
| Conclusion | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                             |  |

|                              |                                                                                                                    |                                                                                                                                                                                                                |  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Parameter</b>             | <b>Quantity of fossil fuel (coal) of type I combusted in boiler in year y ( <math>Q_{fossil, i, y}</math> )</b>    |                                                                                                                                                                                                                |  |
| <b>Means of verification</b> | <b>Criteria/Requirements</b>                                                                                       | <b>Assessment/Observation</b>                                                                                                                                                                                  |  |
|                              | Measuring /Reading /Recording frequency                                                                            | Measuring by Weigh bridge                                                                                                                                                                                      |  |
|                              | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No) | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                                                          |  |
|                              | Monitoring equipment                                                                                               | Project – I (Patiala –Punjab, India):<br>Equipment : Weigh bridge<br>Type : Electronic<br><u>Range:0 to 40 TON</u><br>Serial number of equipment :14WB00381<br>Project – II (Moradabad, Uttar Pradesh, India): |  |

|  |                                                                                                                                                                                                                                                                                             |                                                                                                                        |  |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--|
|  |                                                                                                                                                                                                                                                                                             | Equipment : Weigh bridge<br>Type : Electronic<br><br>Range:0 to 40 TON<br><br>Serial number of equipment :<br>EB04W256 |  |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used is inlinewith registered PD/01/.                                    |  |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                             |  |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the meters is once in 3 years.                                                                |  |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?              | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.               |  |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                               | Yes the calibration is conducted by external agency NABL accredited /07/.                                              |  |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                                | Yes. Calibration of meters is valid for the whole reporting period.                                                    |  |

|                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   | How were the values in the monitoring report verified?                                                                                                                                                                                                                                         | <p>Cumulative value of <math>Q_{fossil, i, y}</math> for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India):0 Tonnes.</p> <p>Project – II (Moradabad, Uttar Pradesh, India): 0 Tonnes</p> |
|                   | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                   | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On-site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                                                                                                                                                                  |
| <b>Findings</b>   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Parameter             | Quantity of fossil fuel (diesel) combusted in boiler in year y ( fCi,j,y )                                                                                                                                                                                                                  |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Means of verification | Criteria/Requirements                                                                                                                                                                                                                                                                       | Assessment/Observation                                                                                                                |
|                       | Measuring /Reading /Recording frequency                                                                                                                                                                                                                                                     | Measuring by Measurement through invoices.                                                                                            |
|                       | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                                                                                                          | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/. |
|                       | Monitoring equipment                                                                                                                                                                                                                                                                        | Not Applicable                                                                                                                        |
|                       | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Not Applicable                                                                                                                        |
|                       | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Not Applicable                                                                                                                        |
|                       | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Not Applicable                                                                                                                        |
|                       | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in                                                                                                         | Not Applicable                                                                                                                        |

|  |                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | accordance with the local/national standards, or as per the manufacturer's specifications?                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                 | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out? | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|  | How were the values in the monitoring report verified?                                                                       | <p>Cumulative value of <b>FC i,j,y</b> for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India):8190 liter</p> <p>Project – II (Moradabad, Uttar Pradesh, India): 2170 liter</p> |
|  | If applicable, has the reported data been cross-checked with other available data?                                           | It is crosschecked against invoices with plant log book data.                                                                                                                                                                                                                                                                                                                                                                                                                     |
|  | Does the data management ensure correct transfer of data and reporting of emission                                           | Verification On-site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the                                                                                                                                                                                                                                                                                                                                                         |

|                   |                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <div> <div>reductions and are necessary<br/>QA/QC processes in place?</div> <div>data management system is<br/>effective and reliable.</div> </div>                                                                                                                                            |
| <b>Findings</b>   | No finding has been raised                                                                                                                                                                                                                                                                     |
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |

|                       |                                                                                                                    |                                                                                                                                                                                                                   |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter             | Quantity of steam generated from project activity biomass fired boiler.(Q <sub>steam</sub> )                       |                                                                                                                                                                                                                   |
| Means of verification | Criteria/Requirements                                                                                              | Assessment/Observation                                                                                                                                                                                            |
|                       | Measuring /Reading /Recording frequency                                                                            | Reading is directly taken from steam flow meter by boiler attendant supervisor on hourly basis.                                                                                                                   |
|                       | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No) | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                                                             |
|                       | Monitoring equipment                                                                                               | Project – I (Patiala –Punjab, India):<br><br>Equipment : Stem flow meter<br>Type : Paper and Electronic<br><br>Range: 0 to 18 Ton<br>Serial number of equipment : 2K6100973<br><br>Project – II (Moradabad, Uttar |

|  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                           |  |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |                                                                                                                                                                                                                                                                                             | Pradesh, India):<br><br>Equipment : Stem flow meter<br>Type : Paper and Electronic<br><br>Range: 0 to 18 Ton<br>Serial number of equipment :<br><br>F3056 |  |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                          |  |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                |  |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the meters is once in 3 years.                                                                                                   |  |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?              | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                  |  |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                               | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                               |  |
|  | Is(are) calibration(s) valid for the                                                                                                                                                                                                                                                        | Yes. Calibration of steam flow meter is valid for the whole                                                                                               |  |

|                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | whole reporting period?                                                                                                                                                                                                                                                                        | reporting period.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                   | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                   | How were the values in the monitoring report verified?                                                                                                                                                                                                                                         | <p>Cumulative value of <b>Q<sub>steam</sub></b> for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India):171,022.30Tonnes</p> <p>Project – II (Moradabad, Uttar Pradesh, India):<br/>144,109.40Tonnes</p> |
|                   | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                   | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                                                                                                                                                                               |
| <b>Findings</b>   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Parameter             | Temperature of the steam generated( $T_{\text{steam}}$ )                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Means of verification | Criteria/Requirements                                                                                                                            | Assessment/Observation                                                                                                                                                                                                                                                                                                                                                                                  |
|                       | Measuring /Reading /Recording frequency                                                                                                          | On site measurement taken from temperature gauge installed at steam outlet from the boiler.                                                                                                                                                                                                                                                                                                             |
|                       | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                               | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                                                                                                                                                                                                                                                   |
|                       | Monitoring equipment                                                                                                                             | <p>Project – I (Patiala –Punjab, India):</p> <p>Equipment: Temperature gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 1200 DEG. C</u></p> <p>Serial number of equipment : T1P521531</p> <p>Project – II (Moradabad, Uttar Pradesh, India):</p> <p>Equipment: Temperature gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 1200 DEG. C</u></p> <p>Serial number of equipment :3440-M3-07</p> |
|                       | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                                                                                                                                                                                                                                                                        |

|  |                                                                                                                                                                                                                                                                                |                                                                                                                                                             |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?                                                                                                                                     |                                                                                                                                                             |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                      | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                  |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                               | Calibration frequency of the meters is once in 3 years.                                                                                                     |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications? | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                    |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                  | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                 |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                   | Yes. Calibration of temperature gauge is valid for the whole reporting period.                                                                              |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                          |
|  | How were the values in the monitoring report verified?                                                                                                                                                                                                                         | Cumulative value of $T_{\text{steam}}$ for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER |

|            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                       |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|            |                                                                                                                                                                                                                                                                                                | <p>calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India):396.95°C</p> <p>Project – II (Moradabad, Uttar Pradesh, India): 400.41 °C</p> |  |
|            | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                                                                                                                                                                        |  |
|            | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                          |  |
| Findings   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                       |  |
| Conclusion | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                                                                                                                                                                       |  |

| Parameter             | Pressure of the steam generated .( $P_{\text{steam}}$ )                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Means of verification | Criteria/Requirements                                                                                                                                                                                                                | Assessment/Observation                                                                                                                                                                                                                                                                                                                                |
|                       | Measuring /Reading /Recording frequency                                                                                                                                                                                              | On site measurement taken from pressure gauge installed at steam outlet from the boiler.                                                                                                                                                                                                                                                              |
|                       | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                                                   | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                                                                                                                                                                                                 |
|                       | Monitoring equipment                                                                                                                                                                                                                 | <p>Project – I (Patiala –Punjab, India):</p> <p>Pressure gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 80 bar</u>Serial number of equipment : 08D0011</p> <p>Project – II (Moradabad, Uttar Pradesh, India):</p> <p>Pressure gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 80 bar</u></p> <p>Serial number of equipment : 0249655</p> |
|                       | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national | Yes, the accuracy of the monitoring equipment as per the registered PD/01/.                                                                                                                                                                                                                                                                           |

|  |                                                                                                                                                                                                                                                                                |                                                                                                                                                             |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | standards, or as per the manufacturer's specification?                                                                                                                                                                                                                         |                                                                                                                                                             |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                      | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                  |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                               | Calibration frequency of the meters is once in 3 years.                                                                                                     |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications? | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                    |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                  | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                 |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                   | Yes. Calibration of pressure gauge is valid for the whole reporting period.                                                                                 |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                          |
|  | How were the values in the monitoring report verified?                                                                                                                                                                                                                         | Cumulative value of $P_{\text{steam}}$ for entire monitoring period is reported in the monitoring report/05/, however monthly values are reported in the ER |

|            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|            |                                                                                                                                                                                                                                                                                                | <p>calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India):41.68 Kg/cm<sup>2</sup></p> <p>Project – II (Moradabad, Uttar Pradesh, India): 31.75 Kg/cm<sup>2</sup></p> |  |
|            | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                                                                                                                                                                                                     |  |
|            | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                       |  |
| Findings   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                    |  |
| Conclusion | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                                                                                                                                                                                                    |  |

|                              |                                                                                                                                                                     |                                                                                  |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Parameter</b>             | Temperature of the steam used in the process at high pressure(after conjunction point of direct and bleed steam)(at high pressure side) ( $T_{\text{steam,HP,I}}$ ) |                                                                                  |
| <b>Means of verification</b> | <b>Criteria/Requirements</b>                                                                                                                                        | <b>Assessment/Observation</b>                                                    |
|                              | Measuring /Reading /Recording frequency                                                                                                                             | On-site measurement from temperature gauge installed at steam outlet from boiler |

|  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                  |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                                                                                                          | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                            |
|  | Monitoring equipment                                                                                                                                                                                                                                                                        | Project – I (Patiala –Punjab, India):<br><br>Equipment: temperature gauge.<br>Type : Electronic<br><br><u>Range: 0 to 500 DEG. C</u><br><br>Serial number of equipment : 06D0023 |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                                                 |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                       |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the meters is once in 3 years.                                                                                                                          |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as                                                     | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                         |

|                 |                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                 | per the manufacturer's specifications?                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                 | Is the calibration of measuring equipment carried out by an accredited person or institution?                                             | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                                                                                                                                                                                                                                                                    |  |
|                 | Is(are) calibration(s) valid for the whole reporting period?                                                                              | Yes. Calibration of temperature gauge is valid for the whole reporting period.                                                                                                                                                                                                                                                                                                                                 |  |
|                 | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?              | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                             |  |
|                 | How were the values in the monitoring report verified?                                                                                    | Cumulative value of $T_{\text{steam,HP,I}}$ for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.<br><br>Value of this parameter for the current monitoring period was verified as<br><br>Project – I (Patiala –Punjab, India):317.59°C |  |
|                 | If applicable, has the reported data been cross-checked with other available data?                                                        | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|                 | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place? | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                                                                                   |  |
| <b>Findings</b> | No finding has been raised                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                |  |

|                   |                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |
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|                       |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter             | Quantity of steam used in the process at high pressure(after conjunction point of direct and bleed steam)(at high pressure side) ( $Q_{\text{steam,HP,I}}$ )                                                                                                                                |                                                                                                                                                                               |
| Means of verification | Criteria/Requirements                                                                                                                                                                                                                                                                       | Assessment/Observation                                                                                                                                                        |
|                       | Measuring /Reading /Recording frequency                                                                                                                                                                                                                                                     | Reading is directly taken from steam flow meter by boiler supervisor on hourly basis.                                                                                         |
|                       | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                                                                                                          | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                         |
|                       | Monitoring equipment                                                                                                                                                                                                                                                                        | Project – I (Patiala –Punjab, India):<br><br>Equipment: Steam flow meter.<br>Type : Electronic<br><br><u>Range: 0 to 7.50 TPH</u><br><br>Serial number of equipment : FTX55PL |
|                       | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                                              |

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|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                      | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                                                                                                                                                                                  |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                               | Calibration frequency of the meters is once in 3 years.                                                                                                                                                                                                                                                                                     |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications? | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                                                                                                                                                                                    |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                  | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                                                                                                                                                                                                 |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                   | Yes. Calibration of steam flow meter is valid for the whole reporting period.                                                                                                                                                                                                                                                               |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                          |
|  | How were the values in the monitoring report verified?                                                                                                                                                                                                                         | Cumulative value of $Q_{\text{steam,HP}}$ for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.<br><br>Value of this parameter for the current monitoring period was |

|            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                             |  |
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|            |                                                                                                                                                                                                                                                                                                | verified as<br><br>Project – I (Patiala –Punjab, India): 93082.60 Tonnes                                                                                                    |  |
|            | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                              |  |
|            | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On-site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable. |  |
| Findings   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                             |  |
| Conclusion | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                             |  |

|                              |                                                                                                                                                                                      |                                                                                                                                       |
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| <b>Parameter</b>             | <b>Pressure of the steam used in the process at high pressure(after conjunction point of direct and bleed steam)(at high pressure side) ( <math>P_{\text{steam, HP, I}}</math> )</b> |                                                                                                                                       |
| <b>Means of verification</b> | <b>Criteria/Requirements</b>                                                                                                                                                         | <b>Assessment/Observation</b>                                                                                                         |
|                              | Measuring /Reading /Recording frequency                                                                                                                                              | On-site measurement from temperature gauge installed at steam outlet from boiler                                                      |
|                              | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                   | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/. |

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|  | Monitoring equipment                                                                                                                                                                                                                                                                        | <p>Project – I (Patiala –Punjab, India):</p> <p>Equipment: Pressure gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 60.00 KG/CM<sup>2</sup></u></p> <p>Serial number of equipment :04B0078</p> |  |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                                                                     |  |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                                           |  |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the meters is once in 3 years.                                                                                                                                              |  |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?              | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                                             |  |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                               | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                                                          |  |

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|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                                   | Yes. Calibration of temperature gauge is valid for the whole reporting period.                                                                                                                                                                                                                                                                                                                                                  |
|                   | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                              |
|                   | How were the values in the monitoring report verified?                                                                                                                                                                                                                                         | Cumulative value of $P_{\text{steam,HP,I}}$ for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.<br><br>Value of this parameter for the current monitoring period was verified as<br><br>Project – I (Patiala –Punjab, India): 16.66 kg/cm <sup>2</sup> |
|                   | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                   | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On-site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                                                                                                     |
| <b>Findings</b>   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Parameter             | Quantity of steam used in the process at high pressure side.(Q <sub>steam,HP,II</sub> )                                                                                                                                                                                                     |                                                                                                                                                                            |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Means of verification | Criteria/Requirements                                                                                                                                                                                                                                                                       | Assessment/Observation                                                                                                                                                     |
|                       | Measuring /Reading /Recording frequency                                                                                                                                                                                                                                                     | Reading is directly taken from steam flow meter by boiler supervisor on hourly basis.                                                                                      |
|                       | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                                                                                                          | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                      |
|                       | Monitoring equipment                                                                                                                                                                                                                                                                        | Project – II (Moradabad, Uttar Pradesh, India):<br>Equipment: Steam flow meter.<br>Type : Electronic<br><u>Range: 0 to 7.50 TPH</u><br>Serial number of equipment :0612221 |
|                       | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                                           |
|                       | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to                                                                                                                                                                                               | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                 |

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|  | different measuring ranges?                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                              |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                               | Calibration frequency of the meters is once in 3 years.                                                                                                                                                                                                                                                                                                                      |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications? | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                                                                                                                                                                                                                     |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                  | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                                                                                                                                                                                                                                  |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                   | Yes. Calibration of steam flow meter is valid for the whole reporting period.                                                                                                                                                                                                                                                                                                |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                           |
|  | How were the values in the monitoring report verified?                                                                                                                                                                                                                         | <p>Cumulative value of <math>Q_{\text{steam,HP,II}}</math> for entire monitoring period is reported in the monitoring report/05/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> |

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|            |                                                                                                                                                                                                                                                                                                | Project – II (Moradabad, Uttar Pradesh, India): 42,151.20 tonnes                                                                                                             |  |
|            | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                               |  |
|            | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable. |  |
| Findings   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                              |  |
| Conclusion | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                              |  |

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| <b>Parameter</b>             | <b>Temperature of the steam used in the process at high pressure (at high pressure side).(<math>T_{\text{steam,HP,II}}</math>)</b> |                                                                                                                                       |
| <b>Means of verification</b> | <b>Criteria/Requirements</b>                                                                                                       | <b>Assessment/Observation</b>                                                                                                         |
|                              | Measuring /Reading /Recording frequency                                                                                            | On-site measurement from temperature gauge installed at steam outlet from boiler                                                      |
|                              | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                 | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/. |

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|  | Monitoring equipment                                                                                                                                                                                                                                                                        | Project – II (Moradabad, Uttar Pradesh, India):<br>Equipment: temperature gauge.<br>Type : Electronic<br><u>Range: 0 to 500 DEG. C</u><br>Serial number of equipment : 3440-M3-07 |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                                                  |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                        |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the meters is once in 3 years.                                                                                                                           |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?              | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                          |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                               | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                                       |

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|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                                   | Yes. Calibration of temperature gauge is valid for the whole reporting period.                                                                                                                                                                                                                                                                                                                                              |
|                   | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                          |
|                   | How were the values in the monitoring report verified?                                                                                                                                                                                                                                         | Cumulative value of $T_{\text{steam,HP,II}}$ for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.<br><br>Value of this parameter for the current monitoring period was verified as<br><br>Project – II (Moradabad, Uttar Pradesh, India): 359.64 °C |
|                   | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                              |
|                   | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                                                                                                |
| <b>Findings</b>   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Parameter             | Pressure of the steam used in the process at high pressure (at high pressure side).( $P_{\text{steam,HP,II}}$ )                                                                                                                                                                             |                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Means of verification | Criteria/Requirements                                                                                                                                                                                                                                                                       | Assessment/Observation                                                                                                                                                                      |
|                       | Measuring /Reading /Recording frequency                                                                                                                                                                                                                                                     | On-site measurement from Pressure gauge.                                                                                                                                                    |
|                       | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                                                                                                          | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                                       |
|                       | Monitoring equipment                                                                                                                                                                                                                                                                        | Project – II (Moradabad, Uttar Pradesh, India):<br><br>Equipment: Pressure gauge.<br>Type : Electronic<br><u>Range: 0 to 8 KG/CM<sup>2</sup></u><br><br>Serial number of equipment :06G0098 |
|                       | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                                                            |
|                       | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                                  |
|                       | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the                                                                                                                                                                |

|  |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
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|  |                                                                                                                                                                                                                                                                                | meters is once in 3 years.                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications? | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                                                                                                                                                                                                                                                                                                    |  |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                  | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                                                                                                                                                                                                                                                                                                                 |  |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                   | Yes. Calibration of pressure gauge is valid for the whole reporting period.                                                                                                                                                                                                                                                                                                                                                                                 |  |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|  | How were the values in the monitoring report verified?                                                                                                                                                                                                                         | <p>Cumulative value of <math>P_{\text{steam,HP,II}}</math> for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – II (Moradabad, Uttar Pradesh, India): 29.64 Kg/cm<sup>2</sup></p> |  |

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|            | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                               |  |
|            | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable. |  |
| Findings   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                              |  |
| Conclusion | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                              |  |

|                              |                                                                                                                                                                                                           |                                                                                                                                       |  |
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| <b>Parameter</b>             | <b>Quantity of steam extracted from the turbine that is used in the process at low pressure (Exhaust Steam at the outlet of the turbine ) (at Low pressure side).( <math>Q_{\text{steam,LP}}</math> )</b> |                                                                                                                                       |  |
| <b>Means of verification</b> | <b>Criteria/Requirements</b>                                                                                                                                                                              | <b>Assessment/Observation</b>                                                                                                         |  |
|                              | Measuring /Reading /Recording frequency                                                                                                                                                                   | On-site measurement from steam flow meter.                                                                                            |  |
|                              | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                        | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/. |  |
|                              | Monitoring equipment                                                                                                                                                                                      | Project – I (Patiala –Punjab, India):<br>Equipment : Stem flow meter<br>Type : Paper and Electronic<br><u>Range: 0 to 7.50 TPH</u>    |  |

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|  |                                                                                                                                                                                                                                                                                             | <p>Serial number of equipment :FTX55PL</p> <p>Project – II (Moradabad, Uttar Pradesh, India):</p> <p>Equipment : Stem flow meter</p> <p>Type : Paper and Electronic</p> <p><u>Range: 0 to 7.50 TPH</u>Serial number of equipment : 0612221</p> |  |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment as per the registered PD/01/.                                                                                                                                                                    |  |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                                                                                     |  |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the meters is once in 3 years.                                                                                                                                                                                        |  |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?              | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                                                                                       |  |

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|--|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                             | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                              | Yes. Calibration of steam flow meter is valid for the whole reporting period.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?              | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|  | How were the values in the monitoring report verified?                                                                                    | <p>Cumulative value of <math>Q_{\text{steam,LP}}</math> for entire monitoring period is reported in the monitoring report/05/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India):78,076.30Tonnes</p> <p>Project – II (Moradabad, Uttar Pradesh, India): 101,958.20Tonnes</p> |
|  | If applicable, has the reported data been cross-checked with other available data?                                                        | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place? | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                                                                                                                                                                                  |

|                   |                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Findings</b>   | No finding has been raised                                                                                                                                                                                                                                                                     |
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |

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| <b>Parameter</b>             | <b>Temperature of the steam extracted from the turbine that is used in the process(at low pressure side) ( <math>T_{\text{steam,LP}}</math> )</b> |                                                                                                                                                                                                                                                                                                                                                         |
| <b>Means of verification</b> | <b>Criteria/Requirements</b>                                                                                                                      | <b>Assessment/Observation</b>                                                                                                                                                                                                                                                                                                                           |
|                              | Measuring /Reading /Recording frequency                                                                                                           | On-site measurement from temperature gauge installed at steam outlet from boiler.                                                                                                                                                                                                                                                                       |
|                              | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                                                                                                                                                                                                   |
|                              | Monitoring equipment                                                                                                                              | <p>Project – I (Patiala –Punjab, India):</p> <p>Equipment: Temperature gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 400 DEG. C</u></p> <p>Serial number of equipment :06-0093/14</p> <p>Project – II (Moradabad, Uttar Pradesh, India):</p> <p>Equipment: Temperature gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 400 DEG. C</u></p> |

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|  |                                                                                                                                                                                                                                                                                             | Serial number of equipment :91218274                                                                     |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                         |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                               |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the meters is once in 3 years.                                                  |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?              | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/. |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                               | Yes the calibration is conducted by external accredited NABL agencies./07/.                              |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                                | Yes. Calibration of temperature gauge is valid for the whole reporting period.                           |

|                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                   | How were the values in the monitoring report verified?                                                                                                                                                                                                                                         | <p>Cumulative value of <math>T_{\text{steam,LP}}</math> for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India): 205.53°C</p> <p>Project – II (Moradabad, Uttar Pradesh, India): 239.75 °C</p> |
|                   | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                   | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                                                                                                                                                                     |
| <b>Findings</b>   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Parameter             | Pressure of the steam extracted from the turbine that is used in the process(at low pressure side).( $P_{\text{steam,LP}}$ )                                                                              |                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Means of verification | Criteria/Requirements                                                                                                                                                                                     | Assessment/Observation                                                                                                                                                                                                                                                                                                                                                              |
|                       | Measuring /Reading /Recording frequency                                                                                                                                                                   | On site measurement taken from pressure gauge installed at steam outlet from the boiler.                                                                                                                                                                                                                                                                                            |
|                       | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                        | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                                                                                                                                                                                                                               |
|                       | Monitoring equipment                                                                                                                                                                                      | <p>Project – I (Patiala –Punjab, India):</p> <p>Pressure gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 10 KG/CM<sup>2</sup></u>Serial number of equipment :06-0093/06</p> <p>Project – II (Moradabad, Uttar Pradesh, India):</p> <p>Pressure gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 10 KG/CM<sup>2</sup></u></p> <p>Serial number of equipment :-05.5443</p> |
|                       | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                                                                                                                                                                                                                                                    |

|  |                                                                                                                                                                                                                                                                                |                                                                                                                                                                |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | comply with local/national standards, or as per the manufacturer's specification?                                                                                                                                                                                              |                                                                                                                                                                |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                      | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                     |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                               | Calibration frequency of the meters is once in 3 years.                                                                                                        |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications? | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                       |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                  | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                    |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                   | Yes. Calibration of pressure gauge is valid for the whole reporting period.                                                                                    |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                             |
|  | How were the values in the monitoring report verified?                                                                                                                                                                                                                         | Cumulative value of $P_{\text{steam,LP}}$ for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER |

|            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                 |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|            |                                                                                                                                                                                                                                                                                                | <p>calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India):3.75 Kg/cm<sup>2</sup></p> <p>Project – II (Moradabad, Uttar Pradesh, India):3.68 Kg/cm<sup>2</sup></p> |  |
|            | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                                                                                                                                                                                                  |  |
|            | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On-site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                     |  |
| Findings   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                 |  |
| Conclusion | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                                                                                                                                                                                                 |  |

|                              |                                                                       |                                                                           |
|------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Parameter</b>             | <b>Temperature of the feed water in the boiler.( T<sub>FW</sub> )</b> |                                                                           |
| <b>Means of verification</b> | <b>Criteria/Requirements</b>                                          | <b>Assessment/Observation</b>                                             |
|                              | Measuring /Reading /Recording frequency                               | On-site measurement from temperature gauge installed at feed water inlet. |
|                              | Is measuring and reporting frequency in accordance with               | Yes. The reporting frequency is in line with the monitoring plan          |

|  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                             |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | the monitoring plan and monitoring methodology? (Yes / No)                                                                                                                                                                                                                                  | as outlined in the registered PD/01/ and monitoring methodology/10/.                                                                                                                                                                                                                                                                                                                        |
|  | Monitoring equipment                                                                                                                                                                                                                                                                        | <p>Project – I (Patiala –Punjab, India):</p> <p>Equipment: Temperature gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 1200 DEG.C</u></p> <p>Serial number of equipment :03122</p> <p>Project – II (Moradabad, Uttar Pradesh, India):</p> <p>Equipment: Temperature gauge.</p> <p>Type : Electronic</p> <p><u>Range: 0 to 1200 DEG.C</u></p> <p>Serial number of equipment :EC965</p> |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment used as per the registered PD/01/.                                                                                                                                                                                                                                                                                                            |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                                                                                                                                                                                                                                  |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the meters is once in 3 years.                                                                                                                                                                                                                                                                                                                                     |

|  |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications? | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                                                                                                                                                                                                                                                                                                                          |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                  | Yes the calibration is conducted by external accredited NABL agencies./07/.                                                                                                                                                                                                                                                                                                                                                                                                       |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                                                                   | Yes. Calibration of temperature gauge is valid for the whole reporting period.                                                                                                                                                                                                                                                                                                                                                                                                    |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                                                                   | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  | How were the values in the monitoring report verified?                                                                                                                                                                                                                         | <p>Cumulative value of <b>T<sub>FW</sub></b> for entire monitoring period is reported in the monitoring report/05/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.</p> <p>Value of this parameter for the current monitoring period was verified as</p> <p>Project – I (Patiala –Punjab, India): 101°C</p> <p>Project – II (Moradabad, Uttar Pradesh, India): 97.15 °C</p> |

|            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                              |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|            | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                                                                             | Not applicable                                                                                                                                                               |  |
|            | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable. |  |
| Findings   | No finding has been raised                                                                                                                                                                                                                                                                     |                                                                                                                                                                              |  |
| Conclusion | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                              |  |

|                              |                                                                                                                    |                                                                                                                                                             |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parameter</b>             | <b>Quantity of rice husk consumed annually.(Q<sub>biomass, 1y</sub> )</b>                                          |                                                                                                                                                             |
| <b>Means of verification</b> | <b>Criteria/Requirements</b>                                                                                       | <b>Assessment/Observation</b>                                                                                                                               |
|                              | Measuring /Reading /Recording frequency                                                                            | MeasuringbyWeigh bridge                                                                                                                                     |
|                              | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No) | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                       |
|                              | Monitoring equipment                                                                                               | Project – I (Patiala –Punjab, India):<br>Equipment : Weigh bridge<br>Type : Electronic<br><u>Range: 0 to 40 TON</u><br>Serial number of equipment:14WB00381 |

|  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                              |  |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |                                                                                                                                                                                                                                                                                             | <p>Project – II (Moradabad, Uttar Pradesh, India):</p> <p>Equipment : Weigh bridge</p> <p>Type : Electronic</p> <p><u>Range: 0 to 40 TON</u></p> <p>Serial number of equipment: EB04W256</p> |  |
|  | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Yes, the accuracy of the monitoring equipment as per the registered PD/01/.                                                                                                                  |  |
|  | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Yes. The accuracy of monitoring equipment's is valid for the entire range.                                                                                                                   |  |
|  | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Calibration frequency of the meters is once in 3 years.                                                                                                                                      |  |
|  | Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?              | Yes. The calibration frequency is in line with the monitoring plan as outlined in the registered PD/01/.                                                                                     |  |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                                                                               | Yes the calibration is conducted by external agency NABL accredited /07/.                                                                                                                    |  |

|                   |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                | Yes. Calibration of meters is valid for the whole reporting period.                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                   | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                | Yes. The calibration is carried out appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                   | How were the values in the monitoring report verified?                                                                                                                                                                      | Cumulative value of $Q_{\text{biomass}, i, y}$ for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.<br><br>Value of this parameter for the current monitoring period was verified as<br><br>Project – I (Patiala –Punjab, India):26,875Tonnes.<br><br>Project – II (Moradabad, Uttar Pradesh, India): 19919Tonnes |
|                   | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                          | The data were cross checked with the Invoices raised by biomass (rice husk) suppliers.                                                                                                                                                                                                                                                                                                                                                                                                    |
|                   | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                   | Verification On-site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.                                                                                                                                                                                                                                                                                                               |
|                   | No finding has been raised                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Findings</b>   |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|  |                                                                    |
|--|--------------------------------------------------------------------|
|  | consistently as per the approved frequency in the monitoring plan. |
|--|--------------------------------------------------------------------|

| Parameter             | Net Calorific Value of biomass residue (rice husk). ( $NCV_{biomass}$ )                                                                                                                                                                                                                     |                                                                                                                                                                                                  |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Means of verification | Criteria/Requirements                                                                                                                                                                                                                                                                       | Assessment/Observation                                                                                                                                                                           |
|                       | Measuring /Reading /Recording frequency                                                                                                                                                                                                                                                     | Net calorific value of biomass was checked through Govt. approved independent laboratory which is 3 <sup>rd</sup> party lab and as its independent lab and not linked with the PP in any manner. |
|                       | Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)                                                                                                                                                                          | Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/10/.                                                            |
|                       | Monitoring equipment                                                                                                                                                                                                                                                                        | Not Applicable                                                                                                                                                                                   |
|                       | Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification? | Not Applicable                                                                                                                                                                                   |
|                       | Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?                                                                                                                                                                   | Not Applicable                                                                                                                                                                                   |
|                       | Calibration frequency /interval:                                                                                                                                                                                                                                                            | Not Applicable                                                                                                                                                                                   |
|                       | Is the calibration interval in line                                                                                                                                                                                                                                                         | Not Applicable                                                                                                                                                                                   |

|  |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                    |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications? |                                                                                                                                                                                                                                                                                                                                                                                    |
|  | Is the calibration of measuring equipment carried out by an accredited person or institution?                                                                                                                                              | Not Applicable                                                                                                                                                                                                                                                                                                                                                                     |
|  | Is(are) calibration(s) valid for the whole reporting period?                                                                                                                                                                               | Not Applicable                                                                                                                                                                                                                                                                                                                                                                     |
|  | Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?                                                                                                               | Not Applicable                                                                                                                                                                                                                                                                                                                                                                     |
|  | How were the values in the monitoring report verified?                                                                                                                                                                                     | Cumulative value of <b>NCV<sub>biomass</sub></b> for entire monitoring period is reported in the monitoring report/04/, however monthly values are reported in the ER calculation sheet/06/. The monthly values were verified from the plant data and found to be consistent.<br><br>Value of this parameter for the current monitoring period was verified as<br><br>2944 Kcal/kg |
|  | If applicable, has the reported data been cross-checked with other available data?                                                                                                                                                         | Not Applicable                                                                                                                                                                                                                                                                                                                                                                     |

|                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?                                                                                                                                                      | Verification On- site assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable. |
| <b>Findings</b>   | Not Applicable                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
| <b>Conclusion</b> | The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodologies. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. |                                                                                                                                                                              |

#### Parameters fixed ex ante:

$EF_{EF,CO_2}$ : it is the  $CO_2$  emission factor per unit of energy of coal fixed at the time of project registration the mentioned value of 94.6  $tCO_2/TJ$  is consistent with the registered PD/01/.

$\eta_{BL, thermal}$ : it is the efficiency of the boiler using coal fixed at the time of project registration the mentioned value of 82% is consistent with the registered PD/01/.

$EF_{grid,CM,y}$ : it is the Combined margin  $CO_2$  emission factor for NEWNE grid fixed at the time of project registration the mentioned value of 0.94193  $tCO_{2e}/MWh$  is consistent with the registered PD/01/.

$COEF_{i,y}$ : it is the  $CO_2$  emission coefficient of fuel type I (Diesel) fixed at the time of project registration the mentioned value of 0.0032  $tCO_{2e}/litre$  is consistent with the registered PD/01/.

PLF: it is the Plant Load Factor fixed at the time of project registration the mentioned value of 90% is consistent with the registered PD/01/.

$\eta_{BI,biomass}$ : it is the efficiency of the project activity biomass based boiler fixed at the time of project registration the mentioned value of 78% is consistent with the registered PD/01/.

#### Calibration of meters:

During the verification assessment of the project activity, accuracy of all the metering have been checked and found appropriate. The installation and working conditions of the meters were checked through photos of meters and were found to be satisfactory. Details of meters are provided in below table:

| Equipment Name                                    | Meter location                           | Accuracy class or<br>Range of<br>Equipment | Meter<br>Sr. No. | Calibration<br>Date | Calibration<br>delay?<br>(As per<br>Registered<br>PD once in 3<br>Years) |
|---------------------------------------------------|------------------------------------------|--------------------------------------------|------------------|---------------------|--------------------------------------------------------------------------|
| Digital Energy Meter (Project I)                  | Monitoring Energy Prod by Turbine        | 0.5s                                       | 07880005         | 25.05.2018          | No                                                                       |
| Digital Energy Meter (Project II)                 | Monitoring Energy Prod by Turbine        | 0.5s                                       | 104707/27-3706   | 25.05.2018          | No                                                                       |
| Digital flow Indicator And Totaliser (Project I)  | Main steam flow Indicator and Totaliser  | Range: 0 to 18 Ton                         | 2K6100973        | 28.03.2018          | No                                                                       |
| Digital flow Indicator And Totaliser (Project II) | Main steam flow Indicator and Totaliser  | Range: 0 to 18 Ton                         | F3056            | 25.05.2018          | No                                                                       |
| Pressure transmitter (Project I)                  | Main steam pressure Transmitter          | Range: 0 to 80 bar                         | 08D0011          | 08.02.2018          | No                                                                       |
| Pressure Transmitter (Project II)                 | Bleed steam Pressure                     | Range: 0 to 80 Bar                         | 0 249655         | 08.02.2018          | No                                                                       |
| Digital pid Controller (Project I)                | Main steam Temperature Measuring         | Range: 0 to 1200 deg. C                    | T1P521531        | 26.06.2018          | No                                                                       |
| Digital pid Controller (Project II)               | Main steam Temperature Measuring         | Range: 0 to 1200 deg. C                    | 3440-M3-07       | 26.05.2018          | No                                                                       |
| Digital flow Indicator And Totaliser (Project I)  | Bleed steam Flow Indicator and Totaliser | Range: 0 to 7.50 Ton                       | FTX55PL          | 12.05.2018          | No                                                                       |
| Digital pid Controller (Project I)                | Bleed Steam pressure Measuring           | Range: 0 to 60.00 kg/cm <sup>2</sup>       | 04B0078          | 31.03.2018          | No                                                                       |
| Digital pid controller (Project I)                | Bleed steam temperature measuring        | Range: 0 to 500 deg. C                     | 06D0023          | 31.03.2018          | No                                                                       |

|                                                   |                                            |                                   |            |            |    |
|---------------------------------------------------|--------------------------------------------|-----------------------------------|------------|------------|----|
| Digital pid controller (project II)               | Bleed steam temperature measuring          | Range: 0 to 500 deg. C            | 3440-M3-07 | 27.03.2018 | No |
| Digital flow indicator and totaliser (project II) | Exhaust steam flow indicator and totaliser | Range: 0 to 7.50 tph              | 0 612221   | 04.04.2018 | No |
| Pressure Transmitter (project II)                 | Exhaust steam Pressure                     | Range: 0 to 8 Kg/cm <sup>2</sup>  | 06G0098    | 08.02.2018 | No |
| Temperature gauge 4 inch (Project I)              | Exhaust temp.measuring                     | Range: 0 to 400 deg. C            | 06-0093/14 | 31.03.2018 | No |
| Temperature gauge 4 inch (project II)             | Exhaust temp.measuring                     | Range: 0 to 400 deg. C            | 91218274   | 27.03.2018 | No |
| Pressure Gauge 4 inch (additional) (Project I)    | Exhaust Pressure Measuring                 | Range: 0 to 10 Kg/cm <sup>2</sup> | 06-0093/06 | 09.03.2018 | No |
| Pressure Gauge 4 inch (additional) (project II)   | Exhaust Pressure Measuring                 | Range: 0 to 10 Kg/cm <sup>2</sup> | I-05.5443  | 27.03.2018 | No |
| Digital temp. Indicator (Project I)               | Feed water Temperature Indication          | Range: 0 to 1200 deg.c            | 0 3122     | 04.04.2018 | No |
| Digital temp. Indicator                           | Feed water Temperature Indication          | Range: 0 to 1200 deg.c            | EC965      | 28.03.2018 | No |
| Digital Weighing Indicator (project I)            | Material Weighing Indication               | Range: 0 to 40 Ton                | 14WB00381  | 01.08.2018 | No |
| Digital Weighing Indicator (project II)           | Material Weighing Indication               | Range: 0 to 40 Ton                | EB04W256   | 27.07.2018 | No |

It is evident from the above table that calibration for the meters is carried out as per the frequency mentioned in the registered monitoring plan and hence no delay in calibration identified during the current monitoring period.

The details of monitoring equipment are involved in the project activity and their calibration details/07/ are mentioned in Appendix 1 of the VCS MR/04/. The meters have been checked through photos in Verification On- visit and the meter details are found to be consistent with that observed during the site visit.

The assessment team has verified the monthly invoices, plant log book , NCV and calibration certificates and confirmed that only the data recorded through all meters is used to calculate parameters belongs to particular developer and consequently for ER calculations. As verified through the calibration certificates, that meters were working satisfactorily during the current monitoring period. The registered VCS PD/01/ & MR /04/ and meter photos confirm that the energy metering equipment are sealed and maintained by the state utility.

In view of the above discussion the assessment team is able to confirm that evidence used to determine the GHG reductions and removals are sufficient and appropriate with respect to quality and quantity.

## GHG Calculations

The emission reduction as per the applied methodologies equals the baseline emissions and project emissions (leakage emissions for such project activities is considered zero). The formula provided for the calculation of baseline emissions is:

### A. Baseline Emission

#### Project I:

### A. Baseline Emission

**1. Baseline emissions for supply of electricity to and / or displacement electricity from a grid shall be calculated as per the procedures detailed in section 4.1 of the revised PD version 03 dated 28/08/2020.**

As per the Para 23 of the AMS.I.Dversion 18 and section 4 of validated VCS PD:

Combined margin emission factor is taken from the CEA data base and used guide version 15 (A publicly available official source), which provides CM equal to 0.94193 tCO<sub>2</sub>e/MWh.

Baseline emission (tCO<sub>2</sub>) = Electricity generated (MWh) x 0.94193 (tCO<sub>2</sub>e/MWh).

Baseline emission (tCO<sub>2</sub>) = Net Electricity generated (MWh) x 0.94193 (tCO<sub>2</sub>e/MWh).

$$= 6275.16 \text{ MWh} \times 0.94193 \text{ (tCO}_2\text{e/MWh)}.$$

$$= 5920.76 \text{ tCO}_2\text{e}$$

**2. For steam/ heat produced using fossil fuels the baseline emissions are calculated as follows:**

As per the Para 34 of the AMS.I.C version 21 and section 4 of validated VCS PD:

**The baseline emissions are calculated as follows:**

$$BE_{\text{thermal, Co2,y}} = (EG_{\text{thermal,y}} / \eta_{\text{BL,thermal}}) * EF_{\text{EF,CO2}}$$

$$= (247.41 \text{ TJ / yr} / 0.82) \times 94.6 \text{ tCO}_2 / \text{TJ}$$

$$= 28,542.71 \text{ tCO}_2\text{e/yr}$$

The detailed calculation has been provided in the Excel Sheet.

**“Since the project activity displaces both grid power and steam from coal fired boiler, the baseline is summation of both 1 and 2.”**

$$\text{Total Baseline Emission Reduction} = 5,920.76 \text{ tCO}_2\text{e} + 28,542.71 \text{ tCO}_2\text{e/ yr}$$

$$= 34,463.47 \text{ tCO}_2\text{e/ yr}$$

## **Project II:**

### **A. Baseline Emission**

**1. Baseline emissions for supply of electricity to and / or displacement electricity from a grid shall be calculated as per the procedures detailed in section 4 of validated VCS PD.**

As per the Para 23 of the AMS.I.D version 18 and section 4 of validated VCS PD:

$$\text{Baseline emission (tCO}_2\text{)} = \text{Net Electricity generated (MWh)} \times 0.94193 \text{ (tCO}_2\text{e/MWh)}.$$

$$= 5,288.51 \text{ MWh} \times 0.94193 \text{ (tCO}_2\text{e/MWh)}.$$

$$= 4,981.406 \text{ tCO}_2\text{e}$$

**2. For steam/ heat produced using fossil fuels the baseline emissions are calculated as follows:**

As per the Para 34 of the AMS.I.C version 21 and section 4 of validated VCS PD:

**The baseline emissions are calculated as follows:**

$$BE_{\text{thermal, Co2,y}} = (EG_{\text{thermal,y}} / \eta_{\text{BL,thermal}}) * EF_{\text{EF,CO2}}$$

$$= (283.98 \text{ TJ / yr} / 0.82) \times 94.6 \text{ tCO}_2 / \text{TJ}$$

$$= 32,761.74 \text{ tCO}_2\text{e/ yr}$$

“Since the project activity displaces both grid power and steam from coal fired boiler, the baseline is summation of both 1 and 2.”

$$\begin{aligned} \text{Total Baseline Emission} &= 4,981.406 \text{ tCO}_2\text{e} + 32,761.74 \text{ tCO}_2\text{e/ yr} \\ &= 37,743.14 \text{ tCO}_2\text{e/ yr} \end{aligned}$$

## B. Project Emission:

The diesel consumption details are mentioned below:

### Project I:

$$\begin{aligned} \text{Project Emission} &= \text{Total diesel consumption} * \text{NCV of Diesel} * \text{Emission factor of Diesel} \\ &= 8.19 \text{ m}^3 * 43.40 \text{ GJ/m}^3 * 0.0032 \text{ tCO}_2 / \text{ GJ} \\ &= 1.14 \text{ tCO}_2\text{e} \end{aligned}$$

### Project II:

$$\begin{aligned} \text{Project Emission} &= \text{Total diesel consumption} * \text{NCV of Diesel} * \text{Emission factor of Diesel} \\ &= 21.71 \text{ m}^3 * 43.39 \text{ GJ/m}^3 * 0.0032 \text{ tCO}_2 / \text{ GJ} \\ &= 3.01 \text{ tCO}_2\text{e} \end{aligned}$$

**Total Project Emission = 4 tCO<sub>2</sub>e/ yr** (round up Value)

**C.Leakage:** Leakage due to transfer of equipment was not applicable to the current project activity. The PP had demonstrated during validation that there was more than 25% excess biomass available in the region and hence was not required to calculate leakage emissions due to competing use of rice husk. As per Para 78 of AMS I C version 21, the leakage has to be considered if the biomass residue are transported over a distance of more than 200 Km due to the implementation of the project activity otherwise it can be neglected. The project activity is procuring and utilizing biomass available within the 50 Km radius from Milk Food Limited the same has been verified from rice husk purchase invoices. Hence leakage for this part is Zero.

### Year wise Emission Reductions Calculations:

| Year      | Baseline emissions or removals (tCO <sub>2</sub> e) | Project emissions or removals (tCO <sub>2</sub> e) | Leakage emissions (tCO <sub>2</sub> e) | Net GHG emission reductions or removals (tCO <sub>2</sub> e) |
|-----------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------------------|
| Year-2019 | 68,149                                              | 2                                                  | 0                                      | 68,147                                                       |

|                                                    |         |   |   |         |
|----------------------------------------------------|---------|---|---|---------|
| (06-May-2019 to 31-December-2019)                  |         |   |   |         |
| Year-2020<br>(01-January-2020 to 31-December-2020) | 40,906  | 2 | 0 | 40,904  |
| Total                                              | 109,055 | 4 | 0 | 109,051 |

The actual emission reductions achieved during the current monitoring period is 6.32% lower than the estimated eRs in the registered PD for the comparable period (estimated 116,407 i.e.  $70,113 \times (606/365)$ ). This is largely due to low plant load factor achieved during the current monitoring period. Considering, there is no increase in eRs than the estimated amount; it was found acceptable to the assessment team.

The verification team confirms that appropriate methods and formulae for calculating baseline emissions have been followed. The assumptions, emission factors and default values that were applied in the calculations are justified. All the data were made available and have monitored as per required monitoring frequency. The means of verification for the values of parameters, used for baseline emission calculation, is described above.

## 4.6 Non-Permanence Risk Analysis

Not applicable for the project activity.

## 5 VERIFICATION CONCLUSION

LGAI Technological Center, S.A. (Applus+ Certification) (also referred to as Applus+ Certification), contracted by M/s Milk Food Limited, to perform the independent verification of the emission reductions for the VCS project activity (VCS ID- 784) “1.6 MW Bundled Rice Husk Based Cogeneration Plant by M/s Milk food Limited (MFL) in Patiala (Punjab) & Moradabad (U.P) Districts” in India for the monitoring period 06/05/2019 to 31/12/2020 as reported in the Monitoring Report Version 3.0 dated 09/08/2021. The M/s Milk Food Limited and Enen Green Services Private Limited (a new Project Proponent) is responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project activity.

It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity.

Applus+ Certification commenced the verification on the basis of the baseline and monitoring methodologies AMS I.C version 21 and AMS I.D version 18, the monitoring plan contained in the registered VCS PD Version 03, dated 28/08/2020 and VCS guidelines version 4.0, Monitoring Report Version 3.0 dated 09/08/2021 as per the process described under Section 2 of this report.

Applus+ Certification verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Applus+ Certification planned and performed the verification by obtaining evidence and other information and explanations that Applus+ Certification considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion the GHG emissions reductions reported for the project activity for the period 06/05/2019 to 31/12/2020 are fairly stated in the Monitoring Report Version 3.0 dated 09/08/2021. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodologies AMS I.C version 21 and AMS I.D, Version 18, and the VCS standard.

Verification period: From 06/05/2019 to 31/12/2020 (including both days)

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

| Year                                      | Baseline emissions or removals (tCO <sub>2</sub> e) | Project emissions or removals (tCO <sub>2</sub> e) | Leakage emissions (tCO <sub>2</sub> e) | Net GHG emission reductions or removals (tCO <sub>2</sub> e) |
|-------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------------------|
| Year-2019<br>(06-May-2019 to 31-December- | 68,149                                              | 2                                                  | 0                                      | 68,147                                                       |

|                                                                |         |   |   |         |
|----------------------------------------------------------------|---------|---|---|---------|
| 2019)                                                          |         |   |   |         |
| Year-2020<br>(01-January-<br>2020 to 31-<br>December-<br>2020) | 40,906  | 2 | 0 | 40,904  |
| Total                                                          | 109,055 | 4 | 0 | 109,051 |

# APPENDIX 1: DOCUMENT REFERENCES

| S.No | Title of Document                                                                                                                                                         | Version                                        | Date                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------|
| 1.   | Registered VCS PD                                                                                                                                                         | 03                                             | 28/08/2020               |
| 2.   | VCS Validation Report                                                                                                                                                     | 02                                             | 17/09/2020               |
| 3.   | Previous VCS Verification report (For Monitoring period: 01/01/2018 –05/05/2019)                                                                                          | 02                                             | 31/03/2020               |
| 4.   | VCS Monitoring Report (Final)                                                                                                                                             | 3.0                                            | 09/08/2021               |
| 4.1  | VCS Monitoring Report                                                                                                                                                     | 1.0                                            | 31/05/2021               |
| 4.2  | VCS Monitoring Report                                                                                                                                                     | 2.0                                            | 20/07/2021               |
| 5.   | ER spread sheet (5219 ER Spreadsheet (Moradabad)VER-2)                                                                                                                    | 1.0                                            | 31/05/2021               |
| 6.   | ER spread sheet (5219 ER Spreadsheet (Patiala)VER-2)                                                                                                                      | 1.0                                            | 31/05/2021               |
| 7    | Certificates of Calibration for all the meters belongs to project activity for energy meters, steam flow meters, temperature sensors, pressure sensors and Weighbridge    | -                                              | -                        |
| 8.   | Plant records for electricity consumption                                                                                                                                 | 06/05/2019 to 31/12/2020                       | -                        |
| 9.   | Biomass weightment records                                                                                                                                                | 06/05/2019 to 31/12/2020                       | -                        |
| 10.  | Methodology<br>AMS I.C, “Thermal Energy production with or without electricity”<br>AMS I.D, “Grid connected renewable electricity generation”                             | version 21 (AMS I.C.) and version 18 (AMS I.D) | -                        |
| 11.  | Consent to Operate issues by Punjab Pollution control board<br>Consent to Operate issues by Uttar Pradesh Pollution control board                                         | 06/05/2019 to 31/12/2020                       | -                        |
| 12.  | Diesel NCV:<br><a href="http://www.ipcc.ch/meetings/session25/doc4a4b/vol2.pdf">http://www.ipcc.ch/meetings/session25/doc4a4b/vol2.pdf</a>                                | -                                              | -                        |
| 13.  | Density of Diesel:<br><a href="http://www.iocl.com/Products/DieselSpecifications.pdf">http://www.iocl.com/Products/DieselSpecifications.pdf</a>                           | -                                              | -                        |
| 14.  | VCS webpage for the project, VCS ID 784;<br><a href="http://www.vcsprojectdatabase.org/#/project_details/784">http://www.vcsprojectdatabase.org/#/project_details/784</a> | -                                              | -                        |
| 15.  | Letter of declaration dated from PP regarding not having created or sought any other form of environmental credit for the same period                                     | -                                              | 19/07/2021               |
| 16.  | Biomass consumption record (Moradabad)<br>Biomass consumption record (Patiala)                                                                                            | -                                              | -                        |
| 17.  | VCS Standard                                                                                                                                                              | Version 4.1                                    | 22/04/2021               |
| 18.  | VCS Program Guide                                                                                                                                                         | Version 4.0                                    | 19/09/2019               |
| 19.  | VCS Programme Definition                                                                                                                                                  | Version 4.1                                    | 15/04/2021               |
| 20.  | Site assessment –interviews of staff personnel, photographs, physical inspection of monitoring system                                                                     | -                                              | 10/07/2021 to 11/07/2021 |
| 21.  | NCV of biomass – NABL accredited third party test reports for the verification period under consideration.                                                                | 06/05/2019 to 31/12/2020                       |                          |
| 22.  | VCS accession representation between Enen Green Services Private Limited and M/s Milk food Limited                                                                        |                                                | 06/03/2018               |

## APPENDIX 2: ABBREVIATIONS

| Abbreviations | Full texts                                                       |
|---------------|------------------------------------------------------------------|
| CAR           | Corrective Action Request                                        |
| CDM PCP       | Clean Development Mechanism Project Cycle Procedure              |
| CDM PS        | Clean Development Mechanism Project Standard                     |
| CDM VVS       | Clean Development Mechanism Validation and Verification Standard |
| EB            | Executive Board                                                  |
| EF            | Emission Factor                                                  |
| EPC           | Engineering ,Procurement and Construction                        |
| ER            | Emission Reductions                                              |
| CEA           | Central Electricity Authority                                    |
| CER           | Certified Emission Reduction                                     |
| CR            | Clarification Request                                            |
| FAR           | Forward Action Request                                           |
| GHG           | Greenhouse Gas(es)                                               |
| GOI           | Government of India                                              |
| IPCC          | Intergovernmental Panel on Climate Change                        |
| MGR           | Monthly Generation Reports                                       |
| MP            | Monitoring Plan                                                  |
| MR            | Monitoring Report                                                |
| MWh           | Megawatt hour                                                    |
| NCV           | Net Calorific Value                                              |
| PD            | Project Description                                              |
| PP            | Project Proponent                                                |
| PS            | Project Standard                                                 |
| TR            | Technical Review                                                 |
| UNFCCC        | United Nations Framework Convention on Climate Change            |
| VVB           | Validation and Verification Body                                 |
| VVS           | Validation and Verification Standard                             |

## APPENDIX 3: FINDINGS OVERVIEW

**Table 1. Remaining FAR from validation and/or previous verification**

| FAR ID                                               | Section no. | NA | Date :DD/MM/YYYY        |
|------------------------------------------------------|-------------|----|-------------------------|
| <b>Description of FAR</b>                            |             |    |                         |
| N/A                                                  |             |    |                         |
| <b>Project participant response</b>                  |             |    | <b>Date :DD/MM/YYYY</b> |
| NA                                                   |             |    |                         |
| <b>Documentation provided by project participant</b> |             |    |                         |
| NA                                                   |             |    |                         |
| <b>VVB assessment</b>                                |             |    | <b>Date: DD/MM/YYYY</b> |
| NA                                                   |             |    |                         |

**Table 2. CR from this verification**

| CR ID                                                                                         | 01 | Section no. | MR | Date :12/07/2021        |
|-----------------------------------------------------------------------------------------------|----|-------------|----|-------------------------|
| <b>Description of CR</b>                                                                      |    |             |    |                         |
| Please submit the following documents:                                                        |    |             |    |                         |
| 1. Undertaking letter from PP for no double Accounting                                        |    |             |    |                         |
| 2. Calibration certificates                                                                   |    |             |    |                         |
| 3. Monthly generation details                                                                 |    |             |    |                         |
| 4. Grievance register                                                                         |    |             |    |                         |
| <b>Project participant response</b>                                                           |    |             |    | <b>Date: 20/07/2021</b> |
| Requested documents are now submit to VVB.                                                    |    |             |    |                         |
| <b>Documentation provided by project participant</b>                                          |    |             |    |                         |
| Undertaking                                                                                   |    |             |    |                         |
| Calibration Certificates                                                                      |    |             |    |                         |
| Monthly Generation Data                                                                       |    |             |    |                         |
| Grievance register                                                                            |    |             |    |                         |
| <b>VVB assessment</b>                                                                         |    |             |    | <b>Date: 26/07/2021</b> |
| Assessment team confirm that received documents are inline with requirements. Hence accepted. |    |             |    |                         |
| <b>CR#1 Closed</b>                                                                            |    |             |    |                         |

**Table 3. CAR from this verification**

| CAR ID                                                                                                                                 | 01 | Section no. | Front page | Date :12/07/2021        |
|----------------------------------------------------------------------------------------------------------------------------------------|----|-------------|------------|-------------------------|
| <b>Description of CAR</b>                                                                                                              |    |             |            |                         |
| How monitoring period starts from 5 <sup>th</sup> May 2019 as crediting period starts on 6 <sup>th</sup> May 2019? PP needs to clarify |    |             |            |                         |
| <b>Project participant response</b>                                                                                                    |    |             |            | <b>Date: 20/07/2021</b> |
| MR is now correct the start date of monitoring period.                                                                                 |    |             |            |                         |
| <b>Documentation provided by project participant</b>                                                                                   |    |             |            |                         |
| MR version 02                                                                                                                          |    |             |            |                         |

|                                                                                                                      |                         |
|----------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>VVB assessment</b>                                                                                                | <b>Date: 26/07/2021</b> |
| Assessment team confirm that PP has corrected monitoring period start date on revised MR front page. Hence accepted. |                         |
| <b>CAR#1 closed</b>                                                                                                  |                         |

|                                                                                                                                                                                                                                                                                                                       |    |                    |     |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-------------------------|
| <b>CAR ID</b>                                                                                                                                                                                                                                                                                                         | 02 | <b>Section no.</b> | 1.8 | <b>Date :12/07/2021</b> |
| <b>Description of CAR</b>                                                                                                                                                                                                                                                                                             |    |                    |     |                         |
| PP needs to clarify how AMS I.D will be applicable in project activity as it's not mentioned in approved VCS PD                                                                                                                                                                                                       |    |                    |     |                         |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                   |    |                    |     | <b>Date: 20/07/2021</b> |
| MR is corrected now and reference is remove as inline with VCS PD version 03                                                                                                                                                                                                                                          |    |                    |     |                         |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                  |    |                    |     |                         |
| MR version 02                                                                                                                                                                                                                                                                                                         |    |                    |     |                         |
| <b>VVB assessment</b>                                                                                                                                                                                                                                                                                                 |    |                    |     | <b>Date: 26/07/2021</b> |
| Assessment team wants to more clarify that AMS I.D was used to calculate emission reduction from amount power supplied by plant to national grid,which is inline with AMS I.C version 21. Whereas AMS I.D is not main methodology in project therefore it not mentioned in section 1.8. Hence PP correction accepted. |    |                    |     |                         |
| <b>CAR#2 closed</b>                                                                                                                                                                                                                                                                                                   |    |                    |     |                         |

|                                                                                                                              |    |                    |     |                         |
|------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-------------------------|
| <b>CAR ID</b>                                                                                                                | 03 | <b>Section no.</b> | 2.2 | <b>Date :12/07/2021</b> |
| <b>Description of CAR</b>                                                                                                    |    |                    |     |                         |
| PP needs to submit copy of grievance register and clarify if there is any comment received during current monitoring period. |    |                    |     |                         |
| <b>Project participant response</b>                                                                                          |    |                    |     | <b>Date: 20/07/2021</b> |
| Copy of grievance register is submitted to VBB, there is no comment received during current monitoring period.               |    |                    |     |                         |
| <b>Documentation provided by project participant</b>                                                                         |    |                    |     |                         |
| Copy of grievance register                                                                                                   |    |                    |     |                         |
| <b>VVB assessment</b>                                                                                                        |    |                    |     | <b>Date: 26/07/2021</b> |
| Assessment confirm that grievance register copy received and no grievance reported during monitoring period.                 |    |                    |     |                         |
| <b>CAR#3 closed</b>                                                                                                          |    |                    |     |                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                    |     |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-------------------------|
| <b>CAR ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 04 | <b>Section no.</b> | 3.1 | <b>Date :12/07/2021</b> |
| <b>Description of CAR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                    |     |                         |
| PP needs to clarify how plant only shut down for 2 hours is correct whereas ER calculation clearly shows plant was not in operation from 17/06/2019 to 30/06/2019 and 11/06/2020 to 24/06/2020. PP needs to clary reason of shutdown. PP also needs to confirm if plant was in operational during lockdown period from April 2020 -July 2020.                                                                                                                                                        |    |                    |     |                         |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                    |     | <b>Date: 20/07/2021</b> |
| Shut down for 2 hrs. is required daily for cleaning of plant & boiler. Plant was under annual maintenance during the period from 17/06/2019 to 30/06/2019 & 11/06/2020 to 24/06/2020. This annual shut down was required for overhauling of all the motors & equipment<br>Plant was in operation during the covid -19 lock down period because MILK PLANT/ DAIRY UNITS are under essential services industries. Permission was given to essential services by the Government for operation of plant. |    |                    |     |                         |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                    |     |                         |
| MR version 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                    |     |                         |

|                                                                                                                                                                                                                                                                                 |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>VVB assessment</b>                                                                                                                                                                                                                                                           | <b>Date: 26/07/2021</b> |
| Assessment team during the Verification On- audit clarifies that reason of shut down for 2 hr daily and confirm that plant required 2 hrs shut down daily for cleaning of boiler. And also confirm that plant was in operation during COVID-19 lock down period. Hence accepted |                         |
| <b>CAR#4 closed</b>                                                                                                                                                                                                                                                             |                         |

|                                                                                                                                                                     |    |                    |     |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-------------------------|
| <b>CAR ID</b>                                                                                                                                                       | 05 | <b>Section no.</b> | 5.1 | <b>Date :12/07/2021</b> |
| <b>Description of CAR</b>                                                                                                                                           |    |                    |     |                         |
| PP has included reference of VCS PD in Section 5.1 which is not inline with registered VCS PD. PP is requested to correct it.                                       |    |                    |     |                         |
| <b>Project participant response</b>                                                                                                                                 |    |                    |     | <b>Date: 20/07/2021</b> |
| MR section 5.1 is corrected now and submits to VVB.                                                                                                                 |    |                    |     |                         |
| <b>Documentation provided by project participant</b>                                                                                                                |    |                    |     |                         |
| MR version 02                                                                                                                                                       |    |                    |     |                         |
| <b>VVB assessment</b>                                                                                                                                               |    |                    |     | <b>Date: 26/07/2021</b> |
| Assessment team confirm that PP has corrected the references of VCS PD in section 5.1 of monitoring report inline with section 4 of registered and approved VCS PD. |    |                    |     |                         |
| <b>CAR#5 closed</b>                                                                                                                                                 |    |                    |     |                         |

|                                                                                                                                                                     |    |                    |     |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-------------------------|
| <b>CAR ID</b>                                                                                                                                                       | 06 | <b>Section no.</b> | 5.3 | <b>Date :12/07/2021</b> |
| <b>Description of CAR</b>                                                                                                                                           |    |                    |     |                         |
| PP has included reference of VCS PD in Section 5.3 which is not inline with registered VCS PD. PP is requested to correct it.                                       |    |                    |     |                         |
| <b>Project participant response</b>                                                                                                                                 |    |                    |     | <b>Date: 20/07/2021</b> |
| MR section 5.3 is corrected now and submits to VVB.                                                                                                                 |    |                    |     |                         |
| <b>Documentation provided by project participant</b>                                                                                                                |    |                    |     |                         |
| MR version 02                                                                                                                                                       |    |                    |     |                         |
| <b>VVB assessment</b>                                                                                                                                               |    |                    |     | <b>Date: 26/07/2021</b> |
| Assessment team confirm that PP has corrected the references of VCS PD in section 5.3 of monitoring report inline with section 4 of registered and approved VCS PD. |    |                    |     |                         |
| <b>CAR#6 closed</b>                                                                                                                                                 |    |                    |     |                         |

|                                                                                                                                                        |    |                    |     |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-------------------------|
| <b>CAR ID</b>                                                                                                                                          | 07 | <b>Section no.</b> | 5.4 | <b>Date :12/07/2021</b> |
| <b>Description of CAR</b>                                                                                                                              |    |                    |     |                         |
| PP is requested to add comparison of actual emission reduction from registered VCS PD and reason of lower or higher emission reduction.                |    |                    |     |                         |
| <b>Project participant response</b>                                                                                                                    |    |                    |     | <b>Date: 20/07/2021</b> |
| MR section 5.4 is corrected now and submits to VVB.                                                                                                    |    |                    |     |                         |
| <b>Documentation provided by project participant</b>                                                                                                   |    |                    |     |                         |
| MR version 02                                                                                                                                          |    |                    |     |                         |
| <b>VVB assessment</b>                                                                                                                                  |    |                    |     | <b>Date: 26/07/2021</b> |
| Assessment team confirm that PP has added comparison of actual emission reduction from registered VCS PD in section 5.4 of revised MR. Hence accepted. |    |                    |     |                         |
| <b>CAR#7 closed</b>                                                                                                                                    |    |                    |     |                         |

|                           |    |                    |            |                         |
|---------------------------|----|--------------------|------------|-------------------------|
| <b>CAR ID</b>             | 08 | <b>Section no.</b> | Appendix X | <b>Date :12/07/2021</b> |
| <b>Description of CAR</b> |    |                    |            |                         |

|                                                                                                                                                                           |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| PP is requested to correct font size and include only valid calibration details for monitoring period and also add it's validity as per monitoring plan.                  |                         |
| <b>Project participant response</b>                                                                                                                                       | <b>Date: 20/07/2021</b> |
| MR Appendix is corrected now and submits to VVB.                                                                                                                          |                         |
| <b>Documentation provided by project participant</b>                                                                                                                      |                         |
| MR version 02                                                                                                                                                             |                         |
| <b>VVB assessment</b>                                                                                                                                                     | <b>Date: 26/07/2021</b> |
| Assessment team confirm that PP has corrected the font size and include calibration validation in appendix 1. No delay observed in calibration of meters. Hence accepted. |                         |
| <b>CAR#8 Closed</b>                                                                                                                                                       |                         |

|                                                                                                                                                                                                                                                                                                                                                              |    |                    |            |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|------------|--------------------------|
| <b>CAR ID</b>                                                                                                                                                                                                                                                                                                                                                | 09 | <b>Section no.</b> | Appendix X | <b>Date : 09/08/2021</b> |
| <b>Description of CAR</b>                                                                                                                                                                                                                                                                                                                                    |    |                    |            |                          |
| PP is requested to clarify why serial number of monitoring equipment presented in section 4.2 of MR is not consistent with serial number mentioned Appendix X of the MR.                                                                                                                                                                                     |    |                    |            |                          |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                          |    |                    |            | <b>Date:10/08/2021</b>   |
| PP has updated the serial number of monitoring equipments inline with calibration certificates as it was typo error since last monitoring period in section 4.2 of monitoring report. PP has submitted revised MR version 3 dated 09/08/2021.                                                                                                                |    |                    |            |                          |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                         |    |                    |            |                          |
| Monitoring report Version 3 dated 09/08/2021                                                                                                                                                                                                                                                                                                                 |    |                    |            |                          |
| <b>VVB assessment</b>                                                                                                                                                                                                                                                                                                                                        |    |                    |            | <b>Date: 10/08/2021</b>  |
| Assessment team confirm that PP has updated meter details in section 4.2 of revised monitoring report based on appendix 1 meter details and also included missing meter details of project II meters. Assessment team verified meter numbers and calibration details from meter calibration certificates and their installation certificates. Hence accepted |    |                    |            |                          |
| <b>CAR#9 Closed</b>                                                                                                                                                                                                                                                                                                                                          |    |                    |            |                          |

Table 4. FAR from this verification

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

## APPENDIX 4: Competency Statements

According to the sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of Applus+ Certification.

The composition of audit team shall be approved by the Applus+ Certification ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT).
- Technical Expert (TE).
- Technical Reviewer (TR).

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team.

| Name          | Qualification                            | Coverage of scope | Coverage of technical Area | Financial aspect | Host country Experience | Attendance to the Assessment (Verification On-) |
|---------------|------------------------------------------|-------------------|----------------------------|------------------|-------------------------|-------------------------------------------------|
| Vivek Ahirwar | Lead Auditor (LA)/ Technical Expert (TE) | Yes (1)           | Yes (1.1)                  | N/A              | Yes                     | Yes                                             |
| Simon Shen    | Technical Reviewer (TR)                  | Yes (1)           | Yes (1.1)                  | N/A              | N/A                     | N/A                                             |

The curricula vitae of the DOE's team members are provided below:

**Vivek Kumar Ahirwar** is a BEE-Certified Energy Auditor by Govt of India with over eight years of relevant experience in energy efficiency, energy audit, thermal and electrical energy generation technology from renewable source and energy conservation in energy intensive industries, designated consumers and commercial buildings, implementation of energy conservation building codes, research, process and green building projects. He is a certified lead auditor for ISO 14001 EMS and 14064. He has experience under various categories of projects stating from renewable to waste to supercritical projects and WCD. He has successfully audited more than 100 GHG (CDM/VCS/GS) projects in different states across the India. He has done Master in Technology (Energy Management) from a premier institute, School of Energy & Environmental Studies, DAVV, Indore (M.P.), India and Bachelor of Engineering (Mechanical Engineering) from Govt. Engineering college, Rewa, RGPV, India.

**Simon Shen** (master degree in thermal energy engineering, bachelor degree in environmental engineering) is a lead auditor appointed by Applus+ certification for the GHG project assessment. He is based in Shanghai. He has several years of work experience in environmental protection field. Before he joined Applus+ certification, he had been worked for TÜV SÜD as a GHG validator/verifier and ISO 9001/14001 lead auditor for 3.5years.

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