

**Request for review  
0919-Malwa Industries, Ludhiana Small Scale Biomass Project**

**Request for review raised**

*The registered monitoring plan requires that 'electricity meters used for monitoring will be calibrated annually and the details of these calibrations will be provided at verification'. However, no information is provided regarding the calibration for energy meters (e.g. calibration frequency, validity, dates, entity that conducted the calibration and the relevant results). Further information is required.*

**Response of PP**

The registered PDD mentions that the meters will be calibrated annually and the certificates will be submitted during verification. The monitoring plan outlines that both—the generation and the auxiliary consumption—energy meters will be calibrated annually. It has also been mentioned that the calibration certificates of the corresponding meters must be furnished at the time of verification.

The monitoring report uploaded on the UNFCCC website indicates that the energy meter, auxiliary meter and the weighbridge have been calibrated. It also states that the calibration certificates have been provided to the DOE.

The verification report issued by the DOE (which is available on the UNFCCC website<sup>1</sup>) states the following:

**Page 3:** "Calibration of the monitoring equipment e.g., energy meters involved in the project activity"

**Page 6:** "External calibrations have been carried out as per the calibration plan. The calibration certificates of the instruments used for data monitoring and recording were also verified during the site visit"

**Page 7:** "The measurement uncertainties of the monitoring equipment been assessed by the external agencies, e.g., (i) Office controller, Legal Metrology Punjab, (ii) Conzerv System Pvt Ltd (Formerly Enercon Systems Pvt Ltd), (iii) Janitaza Electronics GmbH and (iv) Automatic Electric Ltd. The calibration reports have been verified and to be within the defined accuracy limits."

**Page 8:** "Calibration records of measuring instruments used in the project were made available during the verification visit and found to be in order"

**Page 9:** "External calibrations have been carried out as per the calibration plan. The calibration certificates of the instruments used for data monitoring and recording were also verified during the site visit"

**Page 12:** References: Calibration certificates of energy meters

It would therefore seem evident that the monitoring plan of the PDD has been complied with; however, we have set out the calibration records in the table below.

Meter serial number	Make	Calibration frequency	Calibration Agency	Calibration date	Calibration due date
Main meter: 5400/3037	Janitza	Annual	Conzerv Systems Pvt Ltd	15 Nov 2007	14 Nov 2008
Auxiliary meter: 100113/20933-2806	Conzerv	Annual	Conzerv Systems Pvt Ltd	26 June 2007	25 June 2008
Weighbridge	Mettler Toledo	Annual	Legal Metrology, Govt. of Punjab	16 Oct 2007	15 Oct 2008

The meters were therefore calibrated and up to date; we have also provided the calibration certificates so that any further data required may be verified.

For **Malwa Industries Limited**

Authorised Signatory

  
**SANDEEP DAHIYA**

<sup>1</sup> <http://cdm.unfccc.int/Projects/DB/BVQ1170756969.98/iProcess/DNV-CUK1208869252.9/view>