

Corrigendum dated 08th June 2025

Terms of Reference (TOR) for Firm/Agency for the Procurement of Procurement of Industrial Monitoring & Energy Audit Instruments under the project “Green Threads: Enhancing Sustainability in India's Textile Recycling Clusters”, supported by EU Switch Asia
Tender No. FMC/EU/26-27/001

Under the Project: “Green Threads: Enhancing Sustainability in India's Textile Recycling Clusters”

Implemented by: Foundation for MSME Clusters, New Delhi

(RfP no: FMC/EU/26-27/001 dated 14th Apr 2025)

Published on: <https://fmc.org.in/tender/>

The last date of submission of the tender documents for the above tender which was scheduled on 28th Apr 2025 and 4pm is now extended up to **09.06.25 and 11pm**

All other Terms and conditions remain the same

Tender for Firm/Agency for the Procurement of Procurement of Industrial Monitoring & Energy Audit Instruments under the project “Green Threads: Enhancing Sustainability in India's Textile Recycling Clusters”, supported by EU Switch Asia

Tender No. FMC/EU/26-27/001

The Tender are available at <https://www.fmc.org.in/tender>. Please apply by 28th May 2026. The tender submission by Electronically (email) with subject line: “**Proposal for Supply of Industrial Monitoring & Energy Audit Instruments**”. For any query, please email at procurement@msmefoundation.org, CC to accounts@msmefoundation.org, hr@msmefoundation.org

Date of Publication: 14.05.2026

Last Date of Application: 28.05.2026

Award of Contract: The quotation soft copies are to be mailed on the above email IDs.

Request for Proposal (RFP)

Procurement of Industrial Monitoring & Energy Audit Instruments

1. Introduction

Foundation for MSME Clusters (FMC) invites sealed quotations/proposals from eligible manufacturers, authorized distributors, suppliers, and service providers for the supply, delivery, installation (where applicable), demonstration, and warranty support of Industrial Monitoring & Energy Audit Instruments.

The instruments will be used for industrial monitoring, energy audits, environmental monitoring, utility assessment, water quality monitoring, and operational efficiency assessment in MSME units.

Interested agencies/vendors are requested to submit their technical and financial proposals as per the terms and conditions mentioned in this Request for Proposal (RFP).

2. Objective of Procurement

The objective of this procurement is to procure high-quality, portable, industrial-grade instruments suitable for field inspections, industrial audits, utility assessment, boiler monitoring, electrical monitoring, ventilation assessment, and water quality analysis.

The selected vendor shall ensure:

- Supply of genuine and standard quality instruments
- Compliance with the required technical specifications
- Delivery within the prescribed timeline
- Warranty and after-sales support
- Demonstration/training for instrument usage, wherever applicable

3. Scope of Work

The selected vendor shall be responsible for:

1. Supply of instruments as per technical specifications
2. Delivery at designated FMC/project locations
3. Providing standard accessories, cables, carrying cases, adapters, calibration solutions, probes, software, and manuals
4. Functional testing and demonstration of instruments
5. Warranty support and replacement of defective parts during warranty period
6. Technical assistance for installation/configuration wherever required

4. List of Instruments

S. No.	Name of Instrument
1	Flue Gas Analyzer
2	Ultrasonic Flow Meter
3	3 Phase Data Logger
4	Industrial TDS Meter
5	pH Meter
6	Anemometer
7	Temperature cum Humidity Meter
8	Lux Meter
9	Laser Distance Meter

5. Detailed Technical Specifications

Name of Instrument 1: Flue Gas Analyzer

Required for: To measure O₂, CO₂, CO, NO_x and temperature to assess boiler/furnace efficiency.

Specifications:



- Portable flue gas analyser suitable for industrial boiler combustion and efficiency monitoring.
 - Measurement parameters: O₂ (0–21 Vol.%), CO (0–4000 ppm), CO₂, Nox, flue gas temperature (-20°C to +400°C), efficiency, draft and pressure measurement.
 - Accuracy: O₂ ±0.2 Vol.% and CO ±5% of measured value.
 - Features: combustion efficiency calculation, flue gas loss calculation, Bluetooth connectivity, smart app integration and data logging facility.
 - Instrument shall be compact, rechargeable battery operated and suitable for textile industry boiler monitoring.
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Name of Instrument 2: Ultrasonic Flow Meter

Required for: Portable clamp-on ultrasonic flow meter based on transit-time measurement principle, used for non-invasive measurement of liquid flow in pipelines without pipe cutting or process interruption

Specifications:

- Portable clamp-on ultrasonic flow meter based on transit-time measurement principle, suitable for non-invasive liquid flow measurement in full pipelines.
 - Measuring range suitable for pipe sizes DN50–DN700 mm with flow velocity range up to ±10 m/s and measurement accuracy better than ±1%.
 - Suitable for water, cooling water, chemicals, oils and other homogeneous liquids; compatible with steel, stainless steel, PVC, copper and FRP pipelines.
 - Instrument shall have LCD display, RS485/Modbus communication, data logging facility, IP67/IP68 protection, and 4–20 mA / pulse output options.
 - Analyzer shall include clamp-on TM-1 ultrasonic transducers, signal cables, rechargeable/AC powered operation and easy installation without pipe cutting or process shutdown.
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Name of Instrument 3: 3 Phase Data Logger

Required for: To monitor real time 3 phase energy, power and other electrical parameters of the machine and equipment's

Specifications:

- Portable three-phase power analyser suitable for electrical energy audit, load analysis, harmonics analysis and power quality monitoring in industrial applications.
 - Instrument shall measure voltage (0–11kV), current up to 3000A with coil/current probe, active power (kW), reactive power (kVAr), apparent power (kVA), power factor, frequency and energy parameters.
 - Analyzer shall support single phase 2-wire, single phase 3-wire, three phase 3-wire (Delta) and three phase 4-wire (WYE) systems with harmonic analysis up to 51st order.
 - Instrument shall have LCD touch screen, 32GB Micro SD card data logging, USB Host/LAN communication and transient event monitoring for dips and swells.
 - Analyzer shall comply with IEC 61010-1 CAT III 600V safety standard and be supplied with voltage test leads, current probes, software, power adapter and carrying case suitable for industrial monitoring and energy auditing.
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Foundation for MSME Clusters (FMC)

Name of Instrument 4: Industrial TDS Meter

Required for: To measure TDS to assess water quality and suitability for reuse, supports decision-making for recycling treated water in dyeing and washing processes.

Specifications:

- Portable 10-in-1 digital water quality analyser suitable for monitoring pH, EC, TDS, ORP, salinity, specific gravity, hydrogen (H₂), resistivity, nutrient/fertility and temperature parameters in water systems.
 - Measurement ranges: pH 0.00–14.00, EC 0–20000 μS/cm, TDS 0–20000 ppm, ORP ±1999 mV, salinity 0–20%, temperature 0.1°C–100°C and resistivity up to 20 MΩ.
 - Instrument shall have automatic temperature compensation (ATC), backlit LCD display, automatic calibration function and fast response high-precision sensor.
 - Analyzer shall be suitable for industrial water testing, boiler water monitoring, RO water analysis, cooling water systems, aquaculture and laboratory applications.
 - Instrument shall be portable, battery operated, supplied with calibration buffer solutions and suitable for field as well as laboratory water quality monitoring applications.
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Name of Instrument 5: pH Meter

Required for: To monitor acidity and alkalinity which is critical for dyeing processes and effluent treatment, ensures optimal chemical dosing

Specifications:

- Portable digital pen-type pH meter suitable for measurement of acidity and alkalinity of water and aqueous solutions in industrial, laboratory and field applications.
 - Measurement range: 0.00–14.00 pH with resolution of 0.01 pH and accuracy up to ±0.01 to ±0.1 pH with automatic temperature compensation (ATC).
 - Instrument shall have LCD/backlit display, automatic calibration facility (1 to 3 point calibration), waterproof portable design and fast response electrode sensor.
 - Suitable for testing boiler water, cooling water, RO water, drinking water, aquaculture, laboratory samples and industrial process water.
 - Meter shall be battery operated, lightweight, portable and supplied with calibration buffer solutions, protective carrying case and user manual.
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Name of Instrument 6: Anemometer

Required for: Digital anemometer used for measurement of air velocity, airflow rate and air temperature in ventilation systems, exhaust ducts, blowers and industrial process applications.

Specifications:

- Portable digital anemometer suitable for measurement of air velocity, air flow and temperature in HVAC systems, ventilation ducts, industrial exhausts, blowers and environmental monitoring applications.
- Instrument shall measure air velocity in the range of minimum 0.2–30 m/s with accuracy better than ±2–3% of reading and temperature measurement facility in °C/°F.

- Analyzer shall support multiple engineering units including m/s, km/h, ft/min, knots, CFM and CMM for airflow calculations.
 - Instrument shall have LCD/backlit display, data hold, max/min recording, USB/RS232 communication and data logging facility for industrial monitoring applications.
 - Meter shall be portable, battery operated, supplied with vane/hot wire probe, carrying case and suitable for textile industry ventilation assessment, boiler draft study and energy audit applications.
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Name of Instrument 7: Temperature cum Humidity Meter

Required for: Digital thermo-hygrometer/psychrometer used for measurement of ambient temperature, relative humidity, dew point and wet bulb temperature in industrial and environmental applications.

Specifications:

- Portable digital thermo-hygrometer/psychrometer suitable for measurement of ambient temperature, relative humidity, dew point and wet bulb temperature in industrial and environmental monitoring applications.
 - Instrument shall measure relative humidity in the range of 0–100% RH and temperature in the range of minimum -10°C to +90°C with high accuracy and fast response sensor.
 - Suitable for HVAC monitoring, textile industry humidity control, clean rooms, warehouses, laboratories, boiler rooms and indoor air quality assessment.
 - Meter shall have LCD/backlit display, max/min hold, data hold and psychrometric parameter display including dew point and wet bulb temperature.
 - Instrument shall be portable, battery operated and supplied with protective carrying case suitable for field inspection and industrial energy audit applications.
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Name of Instrument 8: Lux meter

Required for: To measure illumination levels for lighting efficiency.

Specifications:

- Portable digital lux meter used for measurement of illumination intensity/light levels in industrial, commercial and environmental monitoring applications.
 - Suitable for lighting assessment in textile industries, offices, warehouses, laboratories, production areas, HVAC systems and energy audit applications.
 - Instrument shall measure illumination in Lux and Foot-Candle (Fc) units with measurement range up to 50,000–200,000 Lux and accuracy better than ± 3 –5% of reading.
 - Meter shall have LCD/backlit display, separate photo sensor, data hold, max/min recording and auto zero adjustment for accurate light measurement.
 - Instrument shall be portable, battery operated and suitable for workplace illumination survey, safety compliance verification and industrial energy efficiency studies.
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Name of Instrument 9: Laser Distance Meter

Required for: Accurate measurement of distance, area, volume and height in industrial, building and utility assessment applications.

Specifications:

- Portable laser distance meter used for accurate measurement of distance, area, volume and height in industrial, construction and energy audit applications.
- Suitable for room dimension measurement, equipment layout, stack height estimation, building survey, duct sizing and industrial utility assessment applications.
- Instrument shall have measuring range minimum 0.05 m to 40–120 m with accuracy up to $\pm 1-2$ mm and laser Class II operation.
- Meter shall support continuous measurement, area/volume calculation, Pythagorean measurement, min/max tracking and multiple engineering units display.
- Instrument shall have LCD/backlit display, memory storage, IP54 protection, rechargeable/battery operation and portable handheld design suitable for industrial field applications.
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6. Eligibility Criteria

The bidder/vendor must fulfill the following eligibility criteria:

1. The bidder should be a manufacturer, authorized dealer, distributor, or supplier.
2. The bidder should have experience in supply of industrial instruments/equipment.
3. GST registration certificate is mandatory.
4. PAN card copy must be submitted.
5. Authorization certificate from OEM, wherever applicable.
6. The bidder should not be blacklisted by any Government department, PSU, or reputed organization.

7. Documents Required

The following documents shall be submitted along with the proposal:

- Company profile
 - GST registration certificate
 - PAN card copy
 - Authorization letter from OEM (if applicable)
 - Technical datasheets/catalogues of proposed instruments
 - Warranty details
 - Delivery timeline
 - Financial quotation on company letterhead
 - Signed and stamped copy of the RFP document
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8. Proposal Submission Guidelines

The proposal shall contain:

A. Technical Proposal

The technical proposal shall include:

- Compliance against technical specifications
- Product brochure/catalogue
- Make and model details
- Warranty details
- Delivery schedule
- Technical support details

B. Financial Proposal

The financial proposal shall include:

- Unit price
- Applicable GST
- Freight/transportation charges
- Installation/demonstration charges, if any
- Total cost

Prices should be quoted in Indian Rupees (INR) only.

9. Delivery Timeline

The selected vendor shall complete the supply and delivery within 10–15 days from the date of issue of Purchase Order (PO), unless otherwise agreed.

10. Warranty

- Minimum 12 months warranty from the date of delivery/installation.
 - Warranty shall cover manufacturing defects and functional failures.
 - Vendor shall provide repair/replacement support during warranty period.
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11. Payment Terms

1. 30% advance payment of the total contract value shall be released upon issuance of the Purchase Order (PO)/Work Order (WO)
 2. The remaining 70% payment shall be released after successful supply, delivery, verification, and submission of invoice and supporting documents.
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Foundation for MSME Clusters (FMC)

12. Submission Deadline

Interested vendors/agencies are requested to submit their proposals on or before:

Submission Deadline:

- **Date of Issue:** 14 May 2026
- **Last Date for Seeking Clarifications:** 22 May 2026
- **Last Date for Submission:** 28 May 2026
- **Bid Opening Date:** 1 June 2026
- **Result Announcement:** 4 June 2026
- **Selection of Bidder:** 5 June 2026

Submission Mode:

Via Email

The proposal should be sent with subject line:

“Proposal for Supply of Industrial Monitoring & Energy Audit Instruments”
