



Government College of Technology
(Autonomous Institution Affiliated to Anna University)
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NOTICE INVITING TENDER

TEQIP-III/TN/gctc/105

12-Jan-2021

Online bids are invited through portal <https://eprocure.gov.in> from interested bidders for the supply of Real Time Energy Efficiency Monitoring Instrument.

Real Time Energy Efficiency Monitoring Instrument – 1 No:

Technical Specifications

S.No	Sensors	Range	Regulation	Accuracy
1.	Oxygen	0 - 25%	0.1%	-0.1% +0.2%
2.	CO (ppm)	0 - 10,000 ppm or better	1 ppm	20ppm <400ppm ± 5% <2000ppm ±10% >2000ppm
3.	CO (%)	10% or better	0.01%	±500ppm <1% ±5% >1%
4.	NO	0 - 5000 ppm or better	1 ppm	±5ppm <100ppm ±5% >100ppm
5.	NO ₂	0 - 1000 ppm or better	1 ppm	±5ppm <100ppm±5% >100ppm
6.	SO ₂	0 - 5000 ppm or better	1 ppm	±5ppm <100ppm±5% >100ppm
7.	CO ₂	20% or better	0.01%	±7% of reading ±0.4%
8.	HC	3000ppm or better	10ppm ±	7% of reading ±30ppmv
9.	H ₂ S	1000ppm or better	1 ppm	±5ppm <100ppm ±5% >100ppm
10.	Draught (pressure sensor) : 0 – 150 mbar or better			

- large graphical display - up to 15 lines of text/data can be displayed
- wireless link from the handset to the base unit - with cable free connection
- GPS location - pinpoint exact test location
- Main purge - allows sensor zeroing without the need to withdraw the probe from
- The flue - refreshes the sensors during long term monitoring automatically protects the sensors from being over-ranged.

- Active flow control- compensates for sample pressure fluctuation & filter blocking by adjusting the pump speed to maintain a set sample gas flow rate
- The instrument should be provided with 3way filtering system for filtering moisture, dust & Sulphur separately.
- User manual, calibration report, Charging adaptor should be supplied
- The instrument should be provided with built in plain paper printer to provide hard copy of the analysis.
- Approval: TÜV Independently tested by TÜV SUD to EN50379
- The instrument should be provided with built in data logger for storing data & relevant software for analysis.
- large internal memory - can store up to 64,000 or more tests
- Instrument should analyze toxic gases in all these four units ppm, mg/m³, ppm(normal) & mg/nm³ (normal)
- Oxygen referencing facility should be available for analyzing the true toxic gas emission from the stack.
- The instrument should have capability of on site in built zero & span calibration with touch key pad.
- Fuel selection: pre programmed fuels facility should be available & user can define their own fuel characteristics.
- Instrument should have capability of measuring differential pressure of flue gas flow.
- Instrument should work both in 230V AC power & rechargeable batteries & battery status should be shown on the display.
- On the spot cleaning & changing facility for filters should be available
- The instrument should calculate total loss, dry loss, wet loss & loss due to unburnt carbon.
- The instrument should have facility for increasing or decreasing the pump suction capacity based on field condition suction requirements.
- Portable with water trap, particle filter, Sulphur filter, Sampling probe length – customised
- (1 mtr long & 0.5 mtr long) Temp: up to 1000 °C with sampling hose: 2 mtrs long or more
- Connectivity:
 - (i) Via blue tooth (wireless connectivity with live analyser readings – capable of transfer to PC or Android phone)
 - (ii) Wireless
 - (iii) USB connection to PC – with the appropriate live software to monitor Readings in “real time”

Instructions /Terms and Conditions

1. The bidders must be registered with NIC CPP and Tamil Nadu Government e-procurement system portal and also should posses Digital Signature Certificate.
2. All the items/Goods/Equipment/machineries/articles should be delivering and install at the college premises only.
3. The online bids should be submitted directly by the original manufacturer/Supplier, if the bid is submitted/filled/uploaded by any representative/agent/dealer then they must upload an Authorization certificate.

4. Bidders should submit their bids in two bids system through online in prescribed format only.
 - a. Technical Bid:
Shall be submitted the bid along with the necessary document mentioned.
 - b. Financial Bid:
 - i. In xls format only (Excel Format).
 - ii. Rate per unit should be mentioned separately.
 - iii. All rates quoted should be in Indian Rupees (INR) only.
 - iv. Price quoted by the bidder should be **firm and final**.
5. Bids in physical form or in any other manner will not be accepted.
6. Bidders must not be black listed by any of the department / Institution of Government of Tamil Nadu.
7. The Bidders should possess a valid GST identification number. The copy of the GST registration Certificate is to be submitted / uploaded. Non-Registered firms are not entertained and bids shall be rejected.
8. Incomplete / Not clear / bids shall be rejected.
9. The rates quoted should be open for acceptance for a period of **60 days**. The offer should be for immediate delivery i.e. within fifteen working days from the date of receipt of our order or as specified in the purchase order.
10. Non execution of the order within the prescribed date will lead to cancellation of orders placed. The supplier may be black listed.
11. The bills for the supply should be submitted in triplicate along with an Advance Stamped Receipt for payments.
12. The payment will be made within reasonable time only after the receipt, installation in good working condition and training of the equipment needs to be provided.
- 13. FIRMS/COMPANIES LOCATED IN TAMILNADU ARE ONLY ELIGIBLE TO PARTICIPATE THE TENDER**
14. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
15. In the event of placing an order with you, you should **execute an agreement** with the principal, Government College of Technology, Coimbatore-641013 on a Non- Judicial stamp paper of Tamilnadu Government.
16. All duties and other levies payable by the supplier under the contract shall be included in the unit price.
17. All supplied items are under warranty of **24 months** from the date of successful acceptance of items.
18. The Principal/ TIA reserves the right to cancel the tender without assigning any reasons
19. For any Corrigendum and addendum please visit www.gct.ac.in.


12/01/2021
THE PRINCIPAL