



**CSIR- CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE
MYSORE-570 020, INDIA**

(Constituent Laboratory of CSIR, New Delhi (Ministry of Science & Technology)
An ISO 9001:2008, ISO 14001:2004 & ISO 17025:2005, NABL Accredited Laboratory



Invitation to Bid.

Tender No. CFTRI/52244/2019 Date: 06/Jun/2019

WATER VAPOUR TRANSMISSION RATE ANALYZER

etender: For submitting tenders, login to <https://etenders.gov.in/eprocure/app>

LAST DATE:

- 1) TENDER SUBMISSION: AT 14.00 HRS (IST) ON 02-JUL-2019
- 2) TENDER OPENING (Technical Bids only): AT 15.00 HRS (IST) ON 03-JUL-2019

Contact Details:

**Section Officer (Stores & Purchase)
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INSTRUCTIONS TO BIDDERS

1. The Instructions, Terms & Conditions, General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Annexures and Formats hosted in our website www.cftri.com [Path: Home page → Tenders → Standard Tender Document (Scrolling Text)] constitutes integral part of this tender.
2. **BOQ (Bill of Quantity)** - Bidders should submit their financial bid in the format provided and no other format is acceptable. **BOQ (Price Schedule)** has been given as a standard format along with the tender document. It is mandatory for all the bidders to upload duly filled BOQ (in MS Excel Format) towards submission of their Financial Bid. No changes or modification to the given format is acceptable. Bidders are required to go through the instructions carefully before filling BOQ.
3. **Bid Security (EMD):** INR 1,00,000/- [Rs. One Lakh Only].
4. **Performance Security:** 10% of the Contract Value.
5. Integrity Pact is not applicable for this tender.
6. **Warranty:** Minimum Two Years from the date of Installation and Commissioning.
7. **Delivery Period:** Delivery should be effected within **8 (Eight) Weeks** from the date of contract signed/Letter of credit.
8. **Terms of Payment:** The method and conditions of payment to be made to the supplier under this Contract shall be as follows:

A. Payment for Goods supplied from Abroad:

Payment of foreign currency portion shall be made in () [currency of the Contract Price] in the following manner:

- (i) **On Shipment:** 90 % (Ninety Percent) of the Contract Price of the Goods shipped shall be paid through irrevocable letter of credit opened in favor of the Supplier upon submission of documents specified in GCC/SCC.
- (ii) **On Acceptance:** 10 % (Ten percent) of the Contract Price of Goods received shall be paid within thirty (30) days of receipt of the Goods and successful installation & commissioning upon submission of claim supported by the acceptance certificate issued by the Purchaser along with the Performance security.

The L/C will be confirmed at the suppliers cost, if requested specifically by the supplier. All bank charges abroad shall be to the account of the beneficiary i.e. supplier and all bank charges in India shall be to the account of the opener i.e. purchaser. If L/C is requested to be extended/ reinstated for reasons not attributable to the purchaser, the charges thereof would be to the suppliers' account. Payment of local currency portion shall be made in Indian Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed. The LC for 100% value of the contract shall be

established after deducting the agency commission payable if any, to the Indian agent from the FOB/FCA value.

B. Payment for Goods and Services supplied from India:

Payment for Goods and Services supplied from within India shall be made in Indian Rupees, [INR] as follows:

On Delivery, Installation and Acceptance: 100 % (Hundred Percent) of the Contract Price shall be paid on receipt of the Goods, upon submission of the documents specified in GCC/SCC and the Performance Security along with the acceptance certificate issued by the Purchaser.

Specification for Water Vapour Transmission Rate Analyzer

- Compliance with ASTM F 1249-13, TAPPI T557, JIS K 7129, ISO 15103-2.
- Sensor to Measure Water Vapor: Modulated Infrared Sensor.
- IR Sensor capability: Capable of sensing 1µg/L of water at 37.8°C
- WVTR Range: 0.005 to 100 g/ package. day and g/m². day with 50cm² test area.
- 0.05 to 1000 g/ package. day and g/m². day with 5cm² test area.
- Temperature Range: 10 to 40° C (±0.2°C)
- Relative Humidity Range: 5 to 90% ((±0.3%) & 100%
- Sample size: 50 cm² Test Area, Small size samples can also be test with the help of 5cm² aluminum masking foil.
- Repeatability: ±0.005 g/package. Day and g/m². Day or 2% of reading whichever is greater at 50 cm²
- Resolution: 0.001 g/package/day and g/m². Day
- Test database: Automatically saves up to 100 tests.
- Intuitive touch screen interface.
- USB & Ethernet connection available on the instrument.
- Auto control of temperature, RH, Pressure and flow.
- Temperature generation mechanism without coolant.
- Gas input 99.7% pure or better Nitrogen gas.
- TruSeal test cell & TotalCal incorporated in system.
- Automatic sequential testing: with one set up, test 10 different RH and temperature parameters for the same film.
- Tet Chambers: Two (Film Test cells per module: 2 X 50 cm²)
- Clamping: Horizontal pneumatically clamped test cells.
- Sensor over-range protection & Circuit board protection.
- Advanced testing with manual control with Auto Test feature.
- Gas saver mode available.
- Products are ETL listed.
- Confirms to UL standard 1262.
- Certified to CAN/CSA C22.2 No. 151.
- Compliance with CE product safety, electromagnetic Emission & Susceptibility.
- Power Supply: 220-240 VAC, 50Hz.
- Stand alone with integrated computer (No need of external computer)
- Material Thickness: 5 microns to 3mm