



सीएसआईआर-केंद्रीय खाद्य प्रौद्योगिक अनुसंधान संस्थान
CSIR- CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE
मैसूरु / MYSURU-570 020, भारत / INDIA

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

सं. /No. CFTRI /74231/21-22

दिनांक / Date: 12th February 2022

NOTICE INVITING TENDER

क्रम सं. Sl. No.	निविदा संदर्भ Tender Reference	विवरण / Description
1	CFTRI /74231/21-22	Walk-In Humidity Chamber

1. Director, CSIR-CFTRI, Mysuru invites tenders for supply, installation, commissioning and satisfactory demonstration of Walk-In Humidity Chamber – 1Unit
2. Last date for submission of Tender is 2.00 P.M. (IST) on 01/March/ 2022 online in etenders.gov.in.
3. Technical Bid Opening on line in e-tender portal at 2.30P.M on 02/ March /2022
4. EMD: Bid Security Declaration Form (As per Annexure-4 to be uploaded along with technical bid). OR Rs. 50,000.00 through Demand Draft/Banker's Cheque/Bank Guarantee from any scheduled bank.
5. Bidder has to submit Non-applicability of exclusion form restrictions under Rule 144(xi) of GFR-2017 (Format enclosed with tender documents)
6. This tender is open for Purchase Preference to Make in India and MSME, Bidder must upload class I/class II self-certification Format along with Technical Bid.

हस्ता./Sd/-

अनुभाग अधिकारी (भं एवं क्र)

Section Officer (S&P)

Ph: +91- 821-2515440/2515447

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CRITICAL DATE SHEET

Tender Ref/No. CFTRI/74231/21-22

Sl.No.	Stage	Date & Time
1	Publish Date & Time	12/02/2022 @ 3.00p.m.
2	Document Download Start Date & Time	12/02/2022 @ 3.00p.m.
3	Bid submission Start Date & Time	18/02/2022 @ 5.00p.m.
4	Bid submission End Date & Time	01/03/2022 @ 2.00p.m.
5	Bid Opening Date & Time	02/03/2022 @ 2.30p.m.

Specification & Allied Technical Details

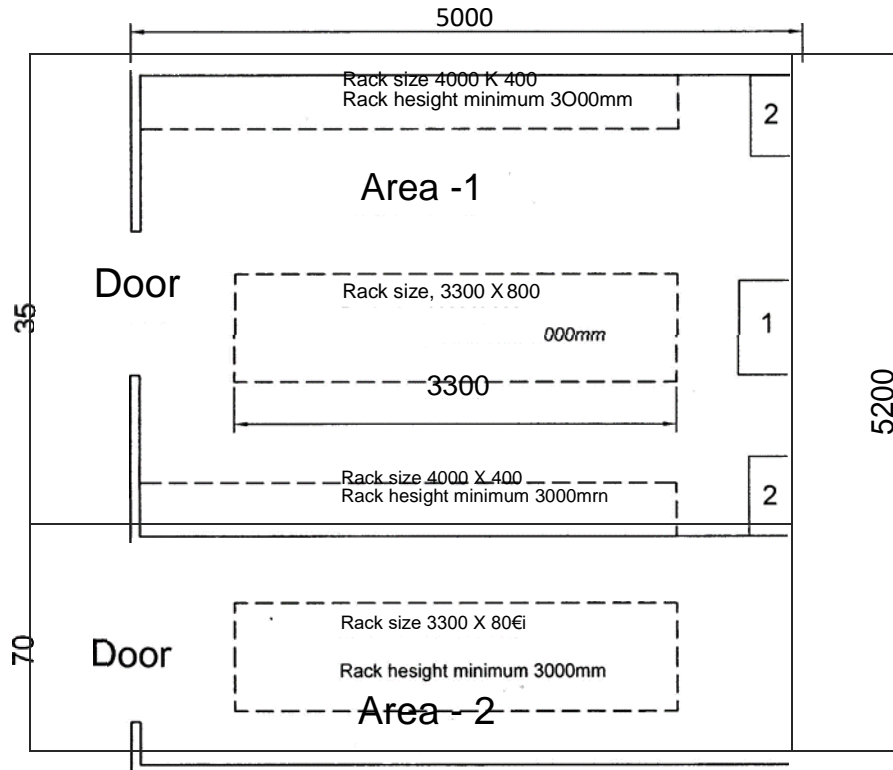
Technical Specification of Temperature & Humidity Controller

(Walk-In Humidity (Stability) Chamber with ECOtronic-based)

Range / Accuracy / Uniformity	Temperature Range: 20°C to 60°C Temperature Accuracy: $\pm 0.2^\circ\text{C}$ Temperature Uniformity: $\pm 1^\circ\text{C}$ Humidity Range: 40% RH to 95% RH Humidity Accuracy: $\pm 2\%$ RH Humidity Uniformity: $\pm 3\%$ RH
Construction	Doubled walled, PUF insulated, leak-proof modular panels with cam & lock arrangement for easy assembly at on-site. Interior & Exterior to be made of SS- 304. The thickness of PUF is to be minimum 80 mm. Walking area is to be covered with good carpet to avoid slippage.
Racks & Trays	Stainless Steel Trays for sample loading is to be provided along with the unit. The trays are mounted on Racks that provide support to the trays.
Lighting	In the aisle area inside the chamber, lights to be provided for illumination.
Chamber Operations	Chamber Operations is to be based on ECOtronic system incorporating the principles of Dew Point Control as per the Psychrometric Chart thereby leading to reduction in Power Consumption by 70% & Water Consumption by 90%
Conditioning Unit	Air Circulation should be through tangential blowers, dry heater, humidity system, evaporation (cooling) coil, standby cooling coil.
ICH Guidelines / Applications	Fully suitable to carry out stability studies for conditions such as: 25°C / 60% RH, 30°C / 65% RH, 30°C / 75%RH, 40°C / 75% RH Also, to meet low humidity ICH conditions laid out for food products such as: 25°C / 40% RH 30°C / 35% RH 30°C / 65%RH 40°C / Not more than 25% RH Applications include shelf-life testing, stability testing, expiration date testing, accelerated aging and testing for food products, packing, life science and research. Validation and testing are to be done
Door	Double walled insulated door is to be provided with an observation window of minimum 300 mm x 300 mm having minimum 2 vacuum glasses. The door should have lock & key to restrict unauthorized access.

DQ, IQ, OQ, PQ	<p>Unit should meet the regulatory requirements and DQ, IQ, OQ, PQ protocols to be provided.</p> <p>Certificates of critical components to be provided along with documentation.</p> <p>Documentation such as Calibration Certificates, Operations & Maintenance Manuals, GA & Electrical Drawings, and Material Test Certificates should be provided.</p> <p>Guidance for SOPs like Operational Maintenance, Preventive Maintenance and Calibration to be given.</p> <p>Adequate training of the chamber & software operation is to be given.</p>
Calibration and Validation	<p>Calibration of the chamber is to be provided with traceability of the standard used. Validation of the chamber i.e. recording the temperature and humidity at different places in the chamber confirming uniform temperature and humidity throughout the chamber is to be done.</p>
Heating System	<p>Long lasting U-shaped Stainless Steel tubular heaters are to be used as a heating element. These heaters should be provided with fins for better heat transfer.</p>
Cooling System	<p>System should be CFC free cooling and it should be consisting of hermetically sealed compressor coupled with evaporation coil and fan-cooled condenser to provide efficient cooling in the chamber. A fully functional cooling system should be provided as standby. Temperature should not overshoots by more than 2°C</p>
Humidity System	<p>Humidity is primarily controlled through the principles of Dew Point as per the Psychrometric Chart.</p> <p>The Humidifier should consist of minimum 2 independent water tanks - one works as a primary and the other as standby. Upon detection of fault, system automatically switches over to the other humidifier & raises an alarm.</p>
Temperature and Humidity Sensor	<p>High-Quality Temperature and Humidity combo sensor with universal 4-20mA output.</p> <p>Temperature is to be displayed in °C with 0.1°C resolution.</p> <p>Humidity is to be displayed in %RH with 0.1%RH resolution.</p>
Temperature & Humidity Scanner	<p>Temperature and humidity scanner should have minimum of 8 temperature and 8 humidity probes (including 1 no. Controlling Sensor & 1 no. Standby Controlling Sensor) is to be provided to monitor various parts of the equipment.</p>
Air Circulation	<p>Top to bottom air circulation is minimum, air circulation is to be maintain uniformity throughout the equipment.</p>
Controlling System	<p>The controlling system is to be fully automatic control system with data storage capacity.</p>
Display	<p>The Display or HMI (Human Machine Interface) is to be of minimum 4" Colour Touch Screen display. It should shows values of temperature and humidity of all probes. additional features like:</p> <ul style="list-style-type: none"> • Display of Alarms & its history • Controls access to door opening. User needs to give password to unlock the door from outside. Control access be provided for minimum six users with tracking facility.

PC Communication with Software	Ethernet-based Communication based on the TCP/IP Protocol over the Local Area Network (LAN) Software for controlling, recording, Ethernet communication with PLC, alarm acknowledgement, database protection and single software should be suitable for minimum 8 equipments/units. Also it should communicate to other safety and documentation systems along with real time window.
Safety	Temperature Safety, Humidity Safety, water level safety, Human safety, Component Safety, Sensor Safety
Alarm Generation	Audio and visual alarms to be generated for deviations
Alarm Transmission	Alarms can be transmitted to different locations and provision for Mobile Alert System
Others	UPS from standard suppliers like APC/Emerson/ABB/Epton for best performance of the unit.



Note: Height of chamber to be taken suitable based on the available roof height of 4m

1 - Centre Ducting
2 - Side Ducting

Ducting nos. and capacity to be decided according to chamber volume

dimensions are in mm

WALKIN HUMIDITY CHAMBE

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.res.in [Path: Home page → Tenders → Standard Tender Document (Scrolling Text)] constitute as an integral part of this tender.
2. Bidders should submit their Financial Bid in the format provided (Price Schedule Format/BOQ) and same has to be uploaded in etender.gov.in. It is mandatory for all the bidders to upload duly filled Price Schedule Format/BOQ towards submission of their respective Financial Bid. No change or modification to the given format is acceptable. Bidders are required to go through the instructions carefully before filling the Price Schedule Format/BOQ.
3. Please note that CSIR-CFTRI, Mysore is registered with the Department of Scientific and Industrial Research (DSIR) for purpose of availing GST @5% concessional rate as per Central Tax(Rate)/Integrated Tax(Rate) in terms of Notification No. 45/2017-Central Tax (Rate)/No. 47/2017- Integrated (Rate) Dt. 14-11-2017. You are advised to quote accordingly.
4. **EMD: Bid Security Declaration(BSD) Form (Annexure-4) to be uploaded along with technical bid. OR, Rs. 50,000.00 through Demand Draft/Banker's Cheque/Bank Guarantee from any scheduled bank in favour of Director, CSIR-CFTRI, Mysore**
5. **Performance Security:** The supplier shall furnish Performance Security of **3% of the contract value** valid for warranty period + additional 2 months after the warranty for this tender. The performance Security shall be in form of Bank Guarantee issued by a scheduled bank
6. **Integrity Pact** is not applicable for this tender.
7. **Warranty:** **One** year minimum from the date of supply, installation & Commissioning, demonstration and acceptance by the Purchaser.
8. **Delivery Period:** Delivery should preferably be effected within 4-6 weeks from the date of issue of Purchase Order.
9. **Terms of Payment:** The method and conditions of payment to be made to the supplier under this Contract shall be as follows:

Payment for Goods and Services supplied from India:

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

A. On Delivery, Installation & Commissioning, Demonstration and Acceptance:

a) 90 % (Ninety Percent) of the Contract Price shall be paid on Delivery of the Goods, Installation & Commissioning, Demonstration and Satisfactory Acceptance of Items & upon submission of the documents specified in GCC/SCC and the acceptance certificate issued by the Purchaser.

b) Balance 10% payment will be made to the supplier against submission of Performance Security valid for warranty period + additional 2 months issued by Scheduled Commercial Bank.

OR

B. Inland Letter of Credit: The inland LC for 100% value of the contract shall be established.

The payment shall be made in Indian Rupees, as follows:

(a) 90 % (Ninety Percent) of the Contract Price shall be paid on Delivery of the Goods, Installation & Commissioning, Demonstration and Satisfactory Acceptance of Items & upon submission of the documents specified in GCC/SCC and the acceptance certificate issued by the Purchaser

(b) Balance 10% payment will be made to the supplier against submission of Performance Security valid for warranty period + additional 2 months issued by Commercial Scheduled Bank.

All bank charges shall be to the account of the beneficiary i.e. Supplier. If L/C is requested to be extended/ reinstated for reasons not attributable to the supplier, charges 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.

10. As per Govt. of India procurement policies,

a. The purchaser intends to give purchase preference to local suppliers. There is a restriction on the eligibility of the foreign suppliers/their Indian agents for item with estimated value up to 200 Crores, as per instruction issued by the Govt. of India from time to time in this regard.

b. The procuring entity intends to give purchase preference to products/goods manufactured by micro, small & medium enterprises. "Local supplier" means a supplier or service provider whose product or service offered for procurement meets the minimum local content as prescribed in DIPP Order No.P45021/2/2017-PP (BE-II) dated 28th May, 2018 or by the competent Ministries/Departments in pursuance of this order. As amended from time to time please also refer to Govt. of India (GOI) Ministry of Commerce & Industry, Department of

Promotion of Industry & Internal Trade (DPIIT) Notification no. P45021/2/2017-PP (BE-II) dt. 04.06.2020 & other orders issued by the Govt. of India on "Make in India" from time to time for reference and further details.

"Local content" means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

"Class I-Local Supplier"- means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under the said GoI, DIPT order dt. 04.06.2020 as amended from time to time.

"Class II-Local Supplier" means a supplier or service provided, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under the said GoI, DIPT order dt. 04.06.2020, as amended from time to time.

"Non-Local Supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20% as defined under the said DIPT order dt. 04.06.2020 as amended from time to time.

Verification of local content

- a. The "Class-I local supplier"/ "Class-II local supplier" at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification (as per format attached below) that the item offered meets the local content requirement for "Class-I local supplier" / "Class-II local Supplier", as the case may be. They shall also give details of the location(s) at which the local value addition is made.
- b. In case of procurement for a value in excess of Rs.10 crores, the "Class-I local suppliers" / "Class-II local suppliers" shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
- c. Decision on complaints relating to implementation of this Order shall be taken by the competent authority which is empowered to look into procurement-related complaints relating to the procuring entity.

Bidders in their own interest must refer to GOI, DIPT order dt. 04.06.2020 & 16.09.2020, as amended from time to time & submit bid as extant Make in India. Submission of false or

misleading declaration in this regard will make bidder concerned liable for punitive action, as per applicable policy and procedures.

11. Compliance of restrictions under Rule 144 (xi) of the GFR, 2017 related to restrictions on participation of Foreign Bidders and their Authorized Indian Agent/ Dealer

- a. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
- b. "Bidder (including the terms "tenderer", consultant" or "service provider" in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated herein before, including any agency branch or office controlled by such person, participating in a procurement process.
- c. "Bidder from a country which shares a land border with India" for the purpose of this Order means: -
 - i. An entity incorporated, established or registered in such a country; or
 - ii. A subsidiary of an entity incorporated, established or registered in such a country; or
 - iii. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - iv. An entity whose beneficial owner is situated in such a country; or
 - v. An Indian (or other) agent of such an entity; or
 - vi. A natural person who is a citizen of such a country; or
 - vii. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.
- d. **The beneficial owner for the purpose of (iii) above will be as under:**

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation----

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;
 - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders' agreements or voting agreements.
1. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
 2. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
 3. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
 4. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

Bidders are requested to submit the prescribed Certificate as per Annexure enclosed below with local details of local value addition.

12. Purchase Preference to Micro and Small Enterprises (MSEs) and Purchase Preference linked with MAKE IN INDIA Order shall be applicable subject to full compliance of Technical

Specification and other terms and conditions of the RFQ / NIT and Contract, as per Government of India procurement policies.

The purchaser intends to give purchase preference to:

- Make in India (as per DPIIT Order No. P-45021/2/2017-PP (BE-II) dated 16th September 2020 of Ministry of Commerce and Industry, Government of India. The preference to Public Procurement (Preference to Make in India) Order 2012 shall be subject to meeting technical specifications and full compliance of other terms and conditions of the RFQ / NIT and Contract.
- Products / goods manufactured by micro and small enterprises as per MSE order 2012 and any amendments thereon. If the bidder wants to avail the Purchase preferences, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the preview of public procurement policy for micro and small enterprises. In respect of bid for services, the bidder must be the service provider of the offered service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. The aforesaid Policy is meant for procurement of only goods produced and Services rendered by MSEs and not for any trading activities by them. An MSE unit will not get any Purchase Preference over any other MSE Unit.
- In case a bidder is eligible to seek benefit under Purchase PP- MAKE IN INDIA policy as well as PPP for MSE 2012, then the bidder should categorically seek benefits against only one of the two policies i.e. either MAKE IN INDIA OR MSE policy in BID FORM. The option once exercised cannot be modified subsequently.

Bid-Securing Declaration Form

Date:

Bid No.

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

(a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

(b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown) in the capacity of (insert legal capacity of person signing the Bid Securing Declaration).

Name: (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of:

(insert complete name of Bidder) Dated on _____ day of _____(insert date of signing) Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

Annexure-13

Format for declaration by the Bidder on Non-applicability of Exclusion from Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 (on Letter Head of the bidder)

(Ref: - Govt. of India, Ministry of Finance, Dept. of Expenditure Order No. F.No.6/18/2019-PPD dated 23.07.2020 {Public Procurement No.1} and subsequent orders on the subject)

Ref. No: _____ Date _____

To,

The Director,
CSIR-CFTRI,
Cheluvamba Mansion
Opp. Railway Museum, KRS Road,
Mysuru-570020

Sir,

With reference to your Tender No. _____ dated _____ I/We hereby undertake that "I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I hereby certify that this bidder is not from such country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

Thanking you,

Yours sincerely,

Signature (Name of the Authorized Signatory)

Company Seal

"[Where applicable, evidence of valid registration by the Competent Authority shall be attached]"

Annexure-14

Self-Certification Form for Minimum 50% or for Minimum 20% Local Content (on Letter Head)

1. Ref: DPIIT Order No.P-45021/2/2017-PP (BE-II) pref. to Make in India dt. 28th May, 2018 as amended vide OM dated 16th Sept 2020 or by the competent Ministries/Departments in pursuance of this order.

2. Ref: Rule 153 (iii) of General Financial Rule - GFR (GoI)

This is to certify that percentage of local content against CSIR-CFTRI tender no..... dt.....and our technical bid no..... dt.isPercent(In Words.....) class/local supplier.

Local content value added- (PERCENTAGE)	
State:	
District:	
Place:	

Thanking you,

Yours sincerely,

Signature (Name of the Authorized Signatory)

Company Seal

COVER DETAILS - DOCUMENTS TO BE UPLOADED:

Cover - 1: Pre-Qualification /Technical Bid (Techno-Commercial Details) for Walk-In Humidity Chamber (Document Type .pdf)

1. Eligibility Criteria

- (a) Catalogue / Brochure of the Model Quoted along with detailed description of the essential technical and performance characteristics of the goods being offered, with an item by-item commentary on the indented technical specification and documentary evidence of conformity of the goods and services to the bidding documents demonstrating substantial responsiveness of the goods being offered.
 - (b) Two (2) latest Purchase Order Copies with price of reputed Govt. Research Institutes/Organisation or any other institutions for the supply & installation and satisfactory functioning of the similar/equivalent equipment to comply with minimum eligibility criteria.
 - (c) User list for the quoted model along with contact Numbers and email ID
 - (d) Warranty offered, delivery schedule, confirming our payment terms as per our tender terms & Condition
 - (e) Land boarder declaration (Annexure-13) and Local Content Certification (Annexure-14) as per enclosed format
2. Bidder Information Form (Annexure - 1)
 3. Manufacturer's Authorization Form (Annexure - 2)
 4. **Bid Security Declaration Form (Annexure-4)**
 5. Performance Statement Form (Annexure - 5)
 6. Deviation Statement Form (Annexure - 6)
7. Bidders must furnish a Compliance Statement of each and every required specification of our tender (Annexure-8)
8. Documents establishing goods eligibility and conformity to bidding document; indicating the Indian Customs Tariff Number (ICT & HSN No.)
9. Schedule of Requirements - (Refer Chapter 5 for Format)
10. Declaration abiding by the Code of Integrity and No Conflict of Interest for Public procurement (Annexure - 11)

Cover - 2: Price Schedule Format/BOQ (Document Type. xl) BOQ uploaded in etenders.gov.in

Please refer to our Standard Tender's Terms & Conditions uploaded in www.cftri.res.in under tender (Chapter-7) for above Format of Annexures. Any other supporting documents to avail preference/benefits as per Standard Tender Document must be uploaded with the Technical bid for technical qualification.