

TENDER DOCUMENT

For purchase of Machines and Testing Equipment & Accessories under the project CoE

Total No. of Equipment : 7

Tender No. NITRA/PUR/PT- 6/2017-18 Ref No. : 3308

Sale of Tender Document	(from www.nitratextile.org & http://tenders.gov.in)
Last date & time for submission of tenders	23-08-2017 (02.00 pm)
Date & time of opening of Technical bids	23-08-2017 (03.00 pm)
Date & time of opening of Financial Bids	Will be intimated later to eligible bidders
Place of submission of bids & opening of technical bids	Northern India Textile Research Association Sector-23, Raj Nagar, Ghaziabad

NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION
(Linked to Ministry of Textiles, Govt. of India)
SECTOR-23, RAJ NAGAR, GHAZIABAD-201 002 (U.P.), INDIA
Phone No: 0120-2786434/451, 2783334/586/592/638
Fax No: 0120-2783596, e-mail: mail@nitratextile.org
Website : www.nitratextile.org

TENDER FORM

To
The Chairman
Purchase Committee
NITRA
Sector-23, Raj Nagar
Ghaziabad – 201 002 (U.P.).

Sub :For purchase of Machines and Testing Equipment & Access. under the project CoE

Dear Sir,

If tender is awarded to us, we agree to abide the following:

- Having examined the terms & conditions of Tenders / Specifications of the machinery / equipments, we, the undersigned, offer to supply equipment/machines as mentioned in the Tender document as per the quantity and specifications given in the tender.
- To supply, install and commissioning of the equipment/ machine at the places specified within stipulated period as mentioned in contract/ purchase order and it shall remain binding upon us.
- Arrange for the transit insurance and fulfill any other statutory obligation, if any, prior to commencement of supply of machinery.
- NITRA's right to cancel the order or stop payment without prejudice to any other right or remedy.
- In case of Imported Items, we quote CIF value up to IGI Airport, New Delhi or ICD Patparganj / Tughlakabad, Delhi (whatever applicable) We also specify the packing dimension, Nos. of Box / Cartoon & gross weight of each Box/Cartoon (Packing list) and also specify the name of the port &Country, from where the goods will be dispatched.

Authorized Signatory
Name & Designation
Date:

WITNESS 1
Name & Signature

WITNESS 2
Name & Signature

INSTRUCTIONS TO TENDERER

1.0 GENERAL

- 1.1. Modifications, if any, in the tender documents will be made by addenda / corrigenda through a notification on websites. One copy of addenda/corrigenda shall be signed, sealed and to be submitted along with the tender documents.
- 1.2 E-mail, Fax, Telex or Telegraphic tenders shall not be entertained.
- 1.3 Bidders are required to submit Earnest Money Deposit (EMD) not less than 2% of tender value (quoted) from any Scheduled Bank through Demand Draft, favoring 'Northern India Textile Research Association' payable at Ghaziabad. Disqualified bidder/bidders will get back their EMD within 30 days from the date of opening of financial bid(s). Demand Draft submitted towards EMD shall be returned within one month from the award of the contract to the successful bidder.
- 1.4 NITRA's purchase committee reserves its right to accept or reject any or all the bids either in full or part, alter, change, cancel partially or fully, rescind or modify the terms and conditions of tender without assigning any reason thereof.
- 1.5 Each and every paper of tender documents shall be signed by the authorized person(s) with seal affixed. If necessary, authorization letter is to be enclosed.
- 1.6 The rates shall be written both in figures and in words. The tenderer shall also show the amount for each item, the total of each section and the grand total of the whole tender. In case of conflict between the figures and words in the rates, the latter shall prevail.

2.0 Packing and Submission of tender

- 2.1 The tender shall be submitted on & before the scheduled date and time at the address given in Tender Form. Any tender received after this date and time shall not be accepted. Tenders shall be packed, marked and sealed and submitted in original with documents as listed in points 2.2 & 2.3 below. **Tender shall be submitted in two separate sealed cover e.g. "Technical Bid" & "Financial Bid". These two sealed covers should be further sealed in one cover/envelope, which shall be marked in the name of the Chairman Purchase Committee, NITRA, Ghaziabad.**
- 2.2 Sealed cover "**Technical Bid**" shall contain
 - a) Tender Document- Technical Specifications in details.
 - b) List of items including spare parts with quantities.
 - c) List of clients including government institutions to whom the respective equipment with same specification has been supplied.
 - d) Pre-installation requirements
 - e) Detailed catalogue for each machine/equipment.
 - f) Details about bidder's organization:
 1. Profile of the bidders organization
 2. Copy of PAN card
 3. Copy of GST registration or any other suitable document.
 4. Turnover in India for last three financial years
 5. Period of existence of manufacturer or its authorized representative in India.
 - g) An authorization letter from principal/manufacturer, if the bidder is not a manufacturer.
 - h) EMD – Demand Draft of not less than 2% of tender value (quoted) to be submitted from any Scheduled Bank. The applicant without EMD will be out rightly disqualified. EMD is exempted for the bidders who are registered as Micro and Small Enterprises with the government. A self attested copy of the certificate is to be enclosed.

(Signature of the bidder)

- 2.3 Sealed cover “**Financial Bid**” shall contain financial details:
- a) Separate price for each of the items should be submitted in an envelope super scribed **with the name of the item at the top**, which will be inclusive of all applicable taxes, duties or any other Govt. levies & all other charges by whatever name called including freight, insurance and installation charges. In case of imported items, CIF value up to Delhi should be mentioned along with installation, commissioning and training at the places specified by NITRA.
 - b) Warranty /performance guarantee period – 3 year from date of commissioning.

3.0 Tender opening & evaluation:

- 3.1 The tender shall be opened on the specified date and time. In the event of any change in the date and time of tender opening, the same would be informed / notified to the tenderer through public notice / individual correspondence / through NITRA’s websites.
- 3.2 Technical bids will be evaluated on the basis of the technical capabilities for executing the order.
- 3.3 Financial bids will be opened only for technically qualified bidders. Award of contract will be made to the L1 bidder.

TERMS AND CONDITIONS

1. **All bids should be for new (first hand) machines only.**
2. Validity of bid/bids (technical & financial) should be 180 days from the date of submission.
3. The successful bidder may require to sign a contract/agreement for execution of the order. Acceptance of purchase orders shall also be required.
4. Bidders/suppliers shall provide both theoretical and practical training after commissioning the machinery or at an appropriate stage.
5. The supplier should take the responsibility for delivering, installing and commissioning of the machinery at the places specified by NITRA.
6. The terms of payment in case of indigenous equipment/ machinery & accessories shall be as under :
 - a) 20% of the order value will be paid as advance against confirmation of orders.
 - b) 70% payment will be made against successful installation, commissioning, training and demonstration of satisfactory performance of the machinery / equipments at site.
 - c) Balance 10% payment will be made after one year from the date of commissioning.
7. **In case of Imported Items, 100% Payment will be made through Irrevocable Letter of Credit.**
8. If the tenders received are not sealed properly, they will not be considered at all.
9. The delivery installation & commissioning period as agreed will not be extended under normal conditions. Suitable penalty for delay in executing the order may be enforced. In case of the delay due to some unforeseen reason, written permission is required from the Chairman, Purchase Committee, NITRA to avoid penalty.
10. Disputes, if any are subject to Ghaziabad (India) jurisdiction only.

(Signature of the bidder)

TECHNICAL SPECIFICATIONS

List of Equipment and Machinery

Sr. No.	Description	Quantity (Nos.)	Location
1	Double Decker Braiding Machine	1	Ghaziabad
2	Automatic Cone Winding Machine	1	Ghaziabad
3	Moisture Vapour Transmission Rate Tester (MVTR or WVTR)	1	Ghaziabad
4	Flammability Tester (as per NFPA 701-Method-1)	1	Ghaziabad
5	Induction Furnace	1	Ghaziabad
6	Winch Lab	1	Ghaziabad
7	Stab Resistance Tester	1	Ghaziabad

(1) Double Decker Braiding Machine: for Ghaziabad

Type of machine : Vertical type capable of duplex braiding on cables used in iron presses

No. of spindles : 16 – 24 each head

Desirables : 1. Rubber feeder attachment
2. Auto thread stop
3. Complete set of accessories including 2 sets of bobbins, thread guides of different diameters etc. for ready to run condition
4. One additional set of all electronic cards, specific cables and wiring with socket if any.
5. Standard spares for 5 years

Note: Preference will be given to machine having an option of flat and circular braiding systems.

(2) Automatic Cone Winding Machine : for Ghaziabad

- i. No. of drums – Lab Model (minimum capacity not less than 4 spindles)
- ii. Electronic yarn clearing system
- iii. M/c speed > 1300 mpm
- iv. Individual splicer

(Signature of the bidder)

(3) Moisture vapour Transmission rate (MVTR or WVTR): For, Ghaziabad.

Objective: To measure the breathability of single or multilayer fabric/garments used for Protective textiles especially for defence personnel.

Scope: Fabric and other textile materials

Instrument Details:

Specifications	Textile Material
Number of Specimens	Minimum 3 independent test results can be taken
Temperature Range	15°C to 55°C (standard)
Humidity Range	10%RH to 98%RH
Air Velocity	0.5 to 2.5 m/s (customization should be available)
Test Area	As per ASTM E96 latest std
Specimen Thickness	≤3 mm
Specimen Size	As per ASTM E96 latest std
Test Chamber Size	To house whole assembly

- Facility to control airflow inside the chamber
- Instrument shall follow latest standard ASTM E96
- All the accessories required for testing shall be provided.
- Necessary traceability certificates shall be provided.

(4) Flammability Tester as per NFPA 701 (Method-I) : For Ghaziabad

Objective: To measure flame resistance properties of protective textiles especially for curtain type material.

Instrument Details:

Flammability Tester with following specifications:

- It shall conform NFPA 701 (Method-1)
- A standard laboratory hood, minimum 820 mm wide × 750 mm high × 630 mm deep (32 in. × 30 in. × 25 in.), or other suitable enclosure shall be used and shall provide a draft-free environment around an open-face test chamber.
- The hood or other enclosure shall be equipped with an exhaust fan for exhausting the smoke. Proper exhausting system shall be provided by the supplier.
- All the dimension shall be as per NFPA 701 Method-1
- All interior surfaces of the cabinet shall be painted with a flat black paint that withstands the heating that occurs in the cabinet.
- At least 3 sample holders (pin bar for mounting) shall be provided.
- All the accessories required for testing shall be provided.
- Necessary traceability certificates shall be provided

(Signature of the bidder)

(5) Induction Furnance: For, Ghaziabad.

Objective: The induction furnace shall be used for laboratory testing purpose. It will be used to test Molten metal splash on work-wear.

Instrument Details:

- It shall be able to provide molten metal of Aluminum, Copper, Iron & Steel.
- At least 10 crucibles shall be providing with the induction furnace.
- At least 2 crucible holders shall be provided
- All the safety gadgets like Gloves, Apron, and Shoes etc. shall be provided
- Temperature measuring device shall be provided to measure the temperature of molten metal.
- All the accessories required for testing shall be provided.
- Necessary traceability certificates shall be provided.

(6) Specification of Winch (Lab Model) m/c : for Ghaziabad

1. Table top Winch (Lab model) dyeing machine shall have provision to dye hank, knitted, delicate woven samples.
 2. Dyeing machine made of stainless steel (SS)
 3. Machine shall have arrangement for additions of dyes and chemicals during the processing.
 4. 9-10 litre of liquor capacity
 5. Electrical Heating system shall be provided to dye material up to 95°C.
 6. Microprocessor based control panel to control temperature ,time etc of dyeing shall be provided
- Complete accessories shall be supplied to make machine ready to use.

(7) Stab resistance tester: For, Ghaziabad.

Objective: For analysis of stab resistance property of protective material.

Instrument Details:

- It should follow NIJ standard 0115.00
- It should determine minimum performance requirements for stab resistance of personnel body armor intended to protect the users against slash & stab threats
- It should test level 1, level 2 & level 3 protections.
- Various types of knives & blades shall be provided.
- Instrument shall be able to test strike energy & over test strike energy.
- Instrument shall be automatic & data/results shall be providing on computer's laptop shall be provided with the instrument.

All the accessories require for the instrument shall be provided by the supplier

(Signature of the bidder)