



**NOTICE INVITING TENDERS**

Tender No. KSRCT/NTTM-02/2024-25/01

Date: 27.11.2024

KSRCT invites Tender in Two Bid Systems (Technical and Commercial) from Resourceful and Reliable Suppliers/Vendors for the Supply and Installation of Equipment for National Technical Textile Mission (NTTM) of Ministry of Textiles (MoT), Government of India Funded Project.

Interested may view and download detailed tender documents from KSRCT's website <https://ksrct.ac.in/>. Tender can be submitted on or before due date along with necessary documents, including the Earnest Money Deposit (EMD), must be submitted in hard copy in sealed cover to K.S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu.



**PRINCIPAL**  
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**K.S.RANGASAMY COLLEGE OF TECHNOLOGY,**  
**TIRUCHENGODE - 637 215.**  
**Namakkal Dist. Tamil Nadu**



**BID DOCUMENT**

Notice Inviting Tender No.	KSRCT/NTTM-02/2024-25/01
Name of the Work	Supply and Installation of the Following Equipment's/ Machines: <ol style="list-style-type: none"><li>1. Servo Controlled Geosynthetic Universal Testing Machine 100T</li><li>2. Automated Compression Testing Machine 300T</li><li>3. Permeability Apparatus For Geotextile – Falling Head</li><li>4. Permeability Apparatus For Geotextile – Constant Head</li><li>5. Large Pull Out Tester - 100 KN Capacity - for Geotextile</li></ol>
Other Terms (Vendor has to submit the required documents after installation)	<ol style="list-style-type: none"><li>1. Knowledge transfer and training should be provided to the faculty.</li><li>2. Include the machine/equipment instruction manual (in English) and the circuit/block diagram in English.</li><li>3. The Standard Operating Procedure (SOP) manual to be supplied.</li></ol>
Annual Maintenance Contract	Minimum 2 years after warranty period of 2 Years in total 4 years
Technical Specification	Annexure – A
Tender Creation Date and Time	27.11.2024 and 11:00 a.m.
Bid Type	Two Bid System - Technical & Commercial
Earnest Money Deposit (EMD)	Nil with Bid Security Declaration (Annexure-B)
Financial Bid	Annexure – C
Manufacturing Authorization Form (MAF)	Annexure – D



Mandate Form	Annexure - E
Non-refundable Tender Processing fee (inclusive of GST @ 18%)	₹ 1,180/-
Tender Closing Date and time	<del>18.12.2024</del> <b>27.12.2024</b> and 02:00 p.m.
Technical Bid Open Date and time	<del>18.12.2024</del> <b>30.12.2024</b> and 02:00 p.m.
Cost Bid Open Date and time	<del>20.12.2024</del> <b>06.01.2025</b> and 11:00 a.m.



### **QUALIFICATION CONDITIONS**

- Bidder should be authorized supplier/service provider of the quoted item/work and should submit the relevant documents/certificates.
- Bidder should have experience of supplying such items and will have to furnish details of previous supplies.

### **BID PRICE**

- Bid must be valid for a period of three months from the closing date of tender.
- All duties, taxes and other levies including the transportation expenses are payable by the Supplier/Agencies/Company under the contract and shall be included in total price.

### **BID EVALUATION**

- The purchase committee of KSRCT will evaluate and compare bids that confirms to terms and conditions, specifications, and quality parameters.

### **DELIVERY PLACE**

- Bidder has to supply and deliver the materials in requisite number at the office of **K.S.RANGASAMY COLLEGE OF TECHNOLOGY**, Tiruchengode – 637 215, Namakkal Dt., Tamil Nadu.

### **OTHER TERMS AND CONDITIONS**

- No payment will be made for any damage of goods supplied.
- The purchase committee of KSRCT reserves the right to reject the offer of one or all the tenderers without assigning the reason thereof.
- Bidder should submit the following details as Annexure while placing the bid,
  1. Manufacture's specification sheet/catalogue
  2. Delivery period
  3. Payment detail
  4. Warranty detail
  5. Availability of after sales service (AMC)



### **INSTRUCTIONS FOR OFFLINE BID SUBMISSION**

This tender document has been published on the <https://ksrct.ac.in/> portal for inviting the tenders from eligible Suppliers/Vendors.

#### **OFFLINE SUBMISSION** -- The bid should be submitted only in **OFFLINE**.

- a. The cover should contain all the prime eligibility documents along with fees towards the cost of the tender document and all pages of the tender document with the signature of the tenderer and it should be PVC/WAX sealed.
- b. The envelopes should be superscripted at the top of the cover as “**NTTM – SUPPLY OF GEOTEXTILE EQUIPMENT**”.
- c. The financial bid document should be removed from the tender document and covered with a sealed envelope with the name of the tenderer, superscripted at the top as “**FINANCIAL BID FOR NTTM – SUPPLY OF GEOTEXTILE EQUIPMENT**”.
- d. The completed tender forms along with the enclosures and the sealed cover containing the financial bid should be submitted in ONE cover and addressed to

**The Principal**

**K. S. RANGASAMY COLLEGE OF TECHNOLOGY,  
KSR Kalvi Nagar, Tiruchengode, Namakkal DT,  
Tamil Nadu – 637 215.**

**Contact Details (Mobile)**

**: 9865455555 / 9894985719**

**E-Mail Id**

**: [principal@ksrct.ac.in](mailto:principal@ksrct.ac.in) /  
[directorfinance@ksrct.ac.in](mailto:directorfinance@ksrct.ac.in)**

- e. The sealed envelope should be submitted by Speed Post/Registered Post with acknowledgement due/courier (OR) in person at the reception of K.S.RANGASAMY COLLEGE OF TECHNOLOGY, KSR Kalvi Nagar, Tiruchengode, Namakkal DT, Tamil Nadu – 637 215 on or before the due date and time.

Technical Bids will be opened as per the schedule given on critical dates in the presence of bidders or their authorized representatives. If the opening date happens to be a closed day/holiday, the tender will be opened on the next working day. Only one authorised representative from the firm shall be allowed to participate in the opening of technical bids/price bids.



**The Tenderer can quote rate either for the supply of one of equipment or any number of equipment, at his choice.**

(It is not compulsory to quote the rate for all the Equipment)

### **EARNEST MONEY DEPOSIT**

- a) The **2% of Earnest Money Deposit (EMD) for the quoted amount** as mentioned in the Notice Inviting Tenders (NIT) should be paid and enclosed with the Bid documents.
- b) EMD shall be deposited in the form of a Demand Draft drawn in favour of The principal, K.S.RANGASAMY COLLEGE OF TECHNOLOGY, Tiruchengode” / BANK GUARANTEE in favour of “The principal, K.S.RANGASAMY COLLEGE OF TECHNOLOGY” issued by any Nationalized Bank valid for 210 days from the date of NIT.
- c) The DD/BG for the EMD amount in original should be attached to the Tender document.
- d) No other mode of payment for EMD will be accepted.
- e) **Tenderer who are registered with NSIC/MSME authorities for the tendered service/item is exempted from the payment of EMD on the production of a self-attested copy of the certificate issued by NSIC/MSME.**
- f) The EMD will not carry any interest while it is in the custody of K.S.RANGASAMY COLLEGE OF TECHNOLOGY.
- g) The EMD will be refunded to the successful/unsuccessful tenderers after the finalisation of the Tender. The EMD paid in the form of BG will be returned to the successful tenderer on payment of Security Deposit (SD), execution of the agreement, and finalisation of the Tender.
- h) The EMD will be refunded to the unsuccessful tenderer after the finalisation of the Tender.
- i) The EMD will be forfeited if the successful tenderer does not supply the GEOTEXTILE LABORATORY EQUIPMENT DEDICATED TO ACADEMIC ACTIVITIES within the stipulated time.
- j) The EMD will be forfeited if the tenderer withdraws the tender within the validity period of the bid.

### **SEARCHING FOR TENDER DOCUMENTS**

Bidders can search for the tender upon clicking <https://ksrct.ac.in/> scrolling on the institution web page and Civil Department page (<https://ksrct.ac.in/civil-department.html>).



## PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bids. Any deviations from these may lead to rejection of the bids.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document.
4. The price bid format is given for ready reference only.
5. The price bid format may also be downloaded from tender website.

## SUBMISSION OF BIDS

1. Bidder should be on time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. Bidders are requested to note that they should necessarily submit their financial bid and technical bid separately.
3. Technical bid should not include any financial information. Technical bid containing financial information shall be declared non-responsive and shall be disqualified.
4. The offer/bid shall be submitted in two bid systems (i.e.) Technical bid and Financial bid. The technical bid shall consist of all technical details along with commercial terms and conditions. Financial bid also should be submitted.
5. Bidder should consider any addendum/corrigendum published on the tender document, on the relevant website, before submitting their bid.

## ASSISTANCE TO BIDDERS

Any queries relating to tender document and the terms and conditions contained therein should be addressed to the tender inviting authority or the relevant contact person indicated in the tender. The email-id for the Help Desk is: [hodcivil@ksrct.ac.in](mailto:hodcivil@ksrct.ac.in) (Mobile: 9894985719) or [jagadeesan@ksrct.ac.in](mailto:jagadeesan@ksrct.ac.in) (Mobile: 9842719542).



## **ACCEPTANCE AND REJECTION**

K.S.RANGASAMY COLLEGE OF TECHNOLOGY reserves the right to accept/reject any or all tenders and accept the whole or any part of the tender without assigning any reason. A tender that does not fulfil any of the terms and conditions of the tender or with incomplete documents in any respect will be rejected summarily.

### **GENERAL INSTRUCTIONS TO THE BIDDERS**

1. In the technical bids, the bidders are required to submit the necessary documents along with all annexures.
2. The enlistment of the vendors should be valid on the last date of submission of tenders.
3. Bidder must read the terms and conditions of tender carefully. He/She should only submit his tender if he/she considers himself eligible and he/she is in possession of all the documents required.
4. The Bidder should have a valid License/Registration, GSTIN No., PAN Number, Bank Account and registered office in India.
5. The Bidder should not have been blacklisted by any Govt. Dept./Semi-Govt./Dept. or any other organization.
6. Information regarding experience in the Supply & Installation of the same/similar Equipment & Instruments/machinery in India. Documentary Evidence to be supported by Purchase Orders and Project/installation completion certificates.
7. Bidders shall have sufficient manufacturing capacity / tie-ups and should have the after-sales support infrastructure.
8. **The rates quoted shall be inclusive of charges such as Insurance, transportation, installation, and training for the staff and all other taxes. Nothing extra shall be paid over the quoted rates.**

### **EVALUATION CRITERIA AND FINAL SELECTION**

1. The committee constituted by the Principal, K. S. RANGASAMY COLLEGE OF TECHNOLOGY will examine the technical documents and decide the suitability as per the requirements of K. S. RANGASAMY COLLEGE OF TECHNOLOGY and the terms and conditions of the tender. Only the technical bids of the firms, which meet the qualification criteria, would be taken up for detailed evaluation.
2. The technical committee will visit to verify the capacity and capability of the bidders to assess the performance of similar Equipment & Instruments/machinery supplied by them.
3. Selection of the bidders shall be based on a weighted criteria system to be derived from the submitted tender documents, experience etc., In the case of non-fulfilment of minimum pre-qualification criteria of the technical bid, the bid of the respective bidder shall be rejected. The competent authority will decide regarding the selection of Contractors.





## SECURITY DEPOSIT

- 1) The successful Bidder including NSIC/ MSME registered firms should remit a SD equivalent to 10% of the awarded amount for the Equipment & Instruments supplied for One year within five days from the date of receipt of the communication by the Bidder.
- 2) This SD is payable in the form of a Term Deposit Receipt (TDR) / Bank Guarantee issued by a Nationalized / Scheduled Bank and it should be for twelve months. Failure to pay the SD within the specified time will entail the forfeiture of EMD and also the rejection of the tender.
- 3) The security deposit will not carry any interest while it is in the custody of K. S. RANGASAMY COLLEGE OF TECHNOLOGY.
- 4) The SD will be returned after 12 months after the successful completion of the supply, installation, and training to the staff and there is no liability on the part of the Bidder to K. S. RANGASAMY COLLEGE OF TECHNOLOGY.
- 5) The SD will be forfeited in the following circumstances.
  - a) In case any document is found false / forged at any stage, the SD will be forfeited.
  - b) If the contract is terminated by the K. S. RANGASAMY COLLEGE OF TECHNOLOGY due to the supply of poor quality Equipment & Instruments or negligence / misbehavior / bad act of the contractor / his personnel or non-observing of the provisions stipulated in the contract, the SD shall be forfeited.
  - c) If the contractor is found violating any law/rule related to the supply of the Equipment & Instruments and a report in this regard is received from the competent authority indicating the contractor for violation of any law/rule, the SD shall be forfeited without prejudice to any other action as per provisions of the contract.
  - d) If the contractor fails to supply the Equipment & Instruments within the time limit specified the penalty for delay shall be recovered from the SD.
  - e) The assessment of recoveries made by the Principal, K. S. RANGASAMY COLLEGE OF TECHNOLOGY shall be final and binding on the contractor.

## AGREEMENT:

- a. The successful tenderer will be required to execute an agreement in a Non-judicial stamp paper of appropriate value within the time frame stipulated by K. S. RANGASAMY COLLEGE OF TECHNOLOGY, Tiruchengode.
- b. The K. S. RANGASAMY COLLEGE OF TECHNOLOGY reserves the right to add/delete/modify the clauses in the agreement.



- c. Failure of the successful bidder to comply with this requirement shall constitute sufficient ground for the annulment of the award and forfeiture of the bid security (EMD) in which event the K. S. RANGASAMY COLLEGE OF TECHNOLOGY may make the award to any other bidder, at the discretion of K. S. RANGASAMY COLLEGE OF TECHNOLOGY or call for new bids.

**PERIOD OF CONTRACT:**

- a) The supply of the Equipment & Instruments should be completed within 60 days from the date of issue of the purchase order.
- b) Extension/non-extension will be the sole discretion of the authority and the Contractors cannot assume extension as their right.
- c) The purchase order will be placed based on the release of funds from National Technical Textile Mission (NTTM) of Ministry of Textiles (MoT).

**TERMINATION OF CONTRACT:**

- 1) The competent authority reserves the right to terminate the contract at any time without assigning any reason if it appears to the authority at any point of time that the services based on the quality of the Equipment & Instruments.
- 2) At any time during the period of the contract, if it comes to the notice of the K. S. RANGASAMY COLLEGE OF TECHNOLOGY that the contractor has misled this office by way of giving false/incorrect information which has been material in the award of the contract, the contract shall be liable to termination without any notice besides other legal action as per law. Further, in case of any breach, the contract can be terminated without any notice.

**SPECIAL TERMS & CONDITIONS**

- a) The contractor shall take all precautionary measures to avoid any damage to adjoining property while installing the Equipment & Instruments. All necessary arrangements shall be made at his own cost.
- b) K. S. RANGASAMY COLLEGE OF TECHNOLOGY reserves the right to make any change, omission, additions (or) alterations to the original specifications of the Equipment & Instruments. Such changes, omissions, and substitutions shall be deemed to have been formed as work included in the original tender and the contractor shall be bound to carry out the work/adhere to the supply order.
- c) **The Period of warranty for the Equipment & Instruments will be for two Years.**
- d) The Contractor shall extend Post Supply Support to the Institute in maintaining the Equipment & Instruments.



Annexure A

**TECHNICAL SPECIFICATION**

S.No	Name of the GEOTEXTILE LABORATORY EQUIPMENT	Specifications
1	Servo Controlled Geosynthetic Universal Testing Machine 100T	<p>Capacity: 1000 kN, Servo Controlled. Bend-Rebend Test Attachment, Electronic Extensometer, Shear Test Attachment, Transverse test attachment, Plate Tensile Test Attachment, Flexure Test attachment for slab. Max Clearance: 1000 mm. Ram Stroke: 250 mm. Load resolution: 10 N. Displacement resolution: 0.01 mm. Auto ranging Facility with digital display of Load and Elongation. Windows based Software Package and Computer system. Built-in provision for storing Test Conditions, Test data and Test Results, Graph Printing, Elastic limit, Modulus of resilience, Stress-strain curve, Energy absorption, Proof resilience, Displacement rate, Load rate and strain rate control modes of operations.</p>
2	Automated Compression Testing Machine 300T	<p>Load: 3000 kN, Servo Controlled with software and computer. Flexure attachment to test slab. Least Count : 0.1 kN Microprocessor based touch panel graphic display to control the machine operation and display of data. Programmable rate of loading (Pace rate) and other sample parameters. Real time display of load and peak load value with pace rate deviation bars. Inching/fast lift operation to adjust gap between sample and upper platen. Automatic release facility after sample failure Automatic strength calculation and display Peak stress calculation based on sample type, shape and dimensions</p>



		<p>Storing of results in user defined file with sample parameter and other details</p> <p>Transfer of result sheet to USB drive for printing and further analysis</p> <p>Safety limits for Over Load and Over Displacement ranges.</p> <p>Standard: ASTM C 39</p> <p>The complete system consists of Load Frame, Hydraulic Pumping Unit, Microprocessor based touch panel display and control system &amp; various height spacers to accommodate different size specimen.</p>
3	Permeability Apparatus For Geotextile – Falling Head	<p>Specimen holder assembly suitable for wide range of Samples and Water Tank of 100 L capacity.</p> <p>Sample size: 100 mm, Head of water: 40 cm.</p> <p>Suitable for Measuring Cross Plane Permeability, In Plane Permeability and Gradient Ratio Test.</p>
4	Permeability Apparatus For Geotextile – Constant Head	<p>Low temperature water bath for cooling of water, R.O. Purification system, Dissolved Oxygen Meter, Digital Stop Watch, De-airing system with Vacuum arrangement.</p> <p>ASTM-D 4491-92, ASTM-D 4716, ASTM-D 5101-12</p>
5	Large Pull Out Tester	<p>Standard: ASTM D6706-01</p> <p>Pull out Test Apparatus for measuring the interface friction between GI Strips / Geosynthetics and Soil.</p> <p>Sample size: 1000 mm X 1000 mm X 1000 mm.</p> <p>Data acquisition system: 16 channels (Feasible for expansion).</p> <p>Normal Load upto 250 kN.</p> <p>Pull Out force upto 100 kN with Variable Pull speeds.</p> <p>Highly sensitive LVDT (150 mm) and Microprocessor based digital read out unit.</p> <p>Facility to select measurement units i.e. KN, KG.</p> <p>Hydraulic Loading system for application of vertical load (Shear Load).</p> <p>Direction control valves controls hydraulic pistons for vertical application of loads.</p> <p>Guide assembly for horizontal and inclined pull-out of geo-synthetics.</p> <p>Mounting facility for Load Cell and LVDT.</p> <p>Load Frame for vertical loading, along with facility for inclined loading at an angles varying from 0 to 30°.</p>



		<p>Pull-out load application unit with Variable speed motorized Gearbox to enable displacement rate ranging from 0 to 10 mm/min.</p> <p>Precise and accurate control through electronic system coupled with PC Software.</p> <p><b>Components:</b></p> <p>Steel Box assembly for test specimen size: 1000 (40") x 1000 (40") x 1000 (40") cm - 01 Nos.</p> <p>Steel Box housing, large, complete with two ball roller strips, 01 Nos.</p> <p>Plain gripper plates - 02 Nos.</p> <p>Perforated Gripper Plates - 02 Nos.</p> <p>Spherical seating.</p> <p>Base Plate.</p> <p>Loading Pad.</p> <p>Chain pulley arrangement for 2 T capacity</p> <p>A soil container or hopper.</p> <p>Leveling tools, and soil placement/removal.</p> <p>Load cell 250 KN capacity vertical load measurement - 01 Nos.</p> <p>Load cell 100 KN capacity horizontal load measurement - 01 Nos.</p> <p>Hydraulic loading system (20 cm Ram Dia &amp; 20 cm Stroke) with Power packs.</p> <p>Displacement transducers <math>\pm 150</math> mm - 04 Nos. - (For strain measurement).</p> <p>Variable channels touch screen HMI &amp; PLC Controller.</p> <p>On-Line Data Acquisition Software.</p> <p>On-Line Data Transmission from Signal Conditioning Unit to Computer.</p>
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**Annexure B**

**(To be submitted by bidder on its Company Letterhead)**

It is here by submitted that if I/We .....(Name of bidder/firm/company) withdraw or modify the bids during period of validity, or if I/We..... (Name of bidder/firm/company) are awarded the contract and I/We.....(Name of bidder/firm/company) fail to sign the contract or to submit a performance security before the deadline defined in the tender documents, I/We .....(Name of bidder/firm/company) will be suspended to take part in K.S.RANGASAMY COLLEGE OF TECHNOLOGY's tendering process for the period of two years from the date of occurrence of the above mentioned default".

Date :

Authorized Signatory



Annexure C

**FINANCIAL BID**

**("FINANCIAL BID FOR NTTM – SUPPLY OF GEOTEXTILE EQUIPMENT")**

Sl. No.	Name of the GEOTEXTILE EQUIPMENT	(in Figures)	(in Words)
1			
2			
3			
4			
5			

**Signature of Tenderer/Authorized Signatory :**

**Name of the Tenderer :**

**Seal of the Tenderer :**

**Address :**

**Note: -**

(if there is any discrepancy in figures and words in the quote, the rate quoted in words shall prevail)



**Annexure D**

**ORIGINAL EQUIPMENT MANUFACTURER (OEM)  
Manufacturing Authorization Form (MAF)**

**(On Letter Head of Manufacturer)**

Ref. No:

Date:

**To**

**THE PRINCIPAL,  
K. S. RANGASAMY COLLEGE OF TECHNOLOGY,  
KSR Kalvi Nagar,  
Tiruchengode – 637 215,  
Namakkal DT, Tamil Nadu.**

We manufacturers of Original Equipment & Instruments at \_\_\_\_\_  
do hereby authorize (M/s. Name and address of the agent) to submit an offer against  
the Tender for the supply of (Name of the Equipment & Instruments)

\_\_\_\_\_  
\_\_\_\_\_

M/s. \_\_\_\_\_ is authorised to submit the bid and conclude  
the contract regarding business.

We hereby extend our full guarantee and warranty for the goods offered by the above  
firm. The dealer is associated with us from the period \_\_\_\_\_ to

\_\_\_\_\_.

Yours faithfully,

(Signature)

Name and seal of the Manufacturer.





Annexure E

**MANDATE FORM**

**ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)/REAL TIME GROSS SETTLEMENT  
(RTGS) FACILITY FOR RECEIVING PAYMENTS**

**DETAILS OF ACCOUNT HOLDER:-**

NAME OF THE ACCOUNT HOLDER	
COMPLETE CONTACT ADDRESS	
TELEPHONE NUMBER & E-MAIL	
GST Number	
PAN Card Number	

**BANK ACCOUNT DETAILS:**

BANK NAME	
BRANCH NAME WITH COMPLETE ADDRESS	
TELEPHONE NUMBER AND E-MAIL	Bank Ph. No : E-mail :
IFSC CODE	
IS THE BRANCH ALSO NEFT ENABLED	YES / NO
TYPE OF BANK ACCOUNT( SB/CURRENT)	SAVINGS ACCOUNT / CURRENT ACCOUNT
BANK ACCOUNT NUMBER	
MICR CODE OF THE BANK	