Government eProcurement System

eProcurement System Government of India

Tender Details

Date : 25-Jun-2025 04:22 PM

Print

Basic Details

Organisation Chain	Indian Institute of Technology Ropar		
Tender Reference Number	322CTP-25		
Tender ID	2025_IITRP_866057_1	**Withdrawal Allowed**	Yes
Tender Type	Open Tender	**Form of contract**	Supply
Tender Category	Goods	**No. of Covers**	2
General Technical Evaluation Allowed	No	**ItemWise Technical Evaluation Allowed**	No
Payment Mode	Offline	**Is Multi Currency Allowed For BOQ**	No
Is Multi Currency Allowed For Fee	No	**Allow Two Stage Bidding**	No

Payment Instruments

Offline	S.No	Instrument Type
	1	R-T-G-S
	2	NEFT

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	Supply and Installation of Geotextile Testing Facility Set up
2	Finance	.xls	Supply and Installation of Geotextile Testing Facility Set up

Tender Fee Details, [Total Fee in ₹ * - 1,000]

Tender Fee in ₹	1,000		
Fee Payable To	Payable To Dean R and D, IIT Ropar	**Fee Payable At**	Payable At Rupnagar
Tender Fee Exemption Allowed	Yes		

EMD Fee Details

EMD Amount in ₹	1,60,000	**EMD Exemption Allowed**	Yes
EMD Fee Type	fixed	**EMD Percentage**	NA
EMD Payable To	Payable To Dean R and D, IIT Ropar	**EMD Payable At**	Payable At Rupnagar

Work /Item(s)

Title	Supply and Installation of Geotextile Testing Facility Set up				
Work Description	Supply and Installation of Geotextile Testing Facility Set up				
Pre Qualification Details	Please refer Tender documents.				
Independent External Monitor/Remarks	NA				
Tender Value in ₹	NA	**Product Category**	Laboratory and scientific equipment	**Sub category**	NA
Contract Type	Tender	**Bid Validity(Days)**	180	**Period Of Work(Days)**	NA
Location	Dept of Civil Engineering IIT Ropar	**Pincode**	140001	**Pre Bid Meeting Place**	NA
Pre Bid Meeting Address	NA	**Pre Bid Meeting Date**	NA	**Bid Opening Place**	IIT Ropar
Should Allow NDA Tender	No	**Allow Preferential Bidder**	No		

Critical Dates

Publish Date	25-Jun-2025 04:00 PM	**Bid Opening Date**	17-Jul-2025 09:00 AM
Document Download / Sale Start Date	25-Jun-2025 04:00 PM	**Document Download / Sale End Date**	16-Jul-2025 04:00 PM
Clarification Start Date	25-Jun-2025 04:00 PM	**Clarification End Date**	11-Jul-2025 09:00 AM
Bid Submission Start Date	25-Jun-2025 04:00 PM	**Bid Submission End Date**	16-Jul-2025 04:00 PM

Tender Documents

NIT Document

S.No	Document Name	Description	Document Size (in KB)
1	Tendernotice_1.pdf	Supply and Installation of Geotextile Testing Facility Set up	4240.42

Work Item Documents

S.No	Document Type	Document Name	Description	Document Size (in KB)
1	BOQ	BOQ_910487.xls	Supply and Installation of Geotextile Testing Facility Set up	284.00

Tender Inviting Authority

Name	The Assistant Registrar
Address	R and D Section, IIT Ropar

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Research & Development Section, Indian Institute of Technology Ropar
Rupnagar, Punjab-140001, Ph. 01881-231149, E-mail: purchase.rnd@iitrpr.ac.in
GSTIN No. 03AAATI7702D1Z8 | PAN No. AAATI7702D

Tender Document

General information required for the bid submission:

- Delivery/Warranty/AMC Schedule etc.:	As per tender document.	
- Tender Fee/Earnest Money Deposit(EMD):	To be paid in the following bank account:	
	Name of the Bank A/C	IIT Ropar R&D Account
	SBI A/C No.	32325870435
	Name of the Bank	State Bank of India
	IFSC Code	SBIN0013181
	MICR Code	140002008
	(This is mandatory that UTR Number is provided in the on-line quotation/bid.	

Tender Documents may be downloaded from Central Public Procurement Portal http://eprocure.gov.in/eprocure/ app. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website http://eprocure.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'.

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, Click on "GO" button to view all IIT Ropar tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website http://eprocure.gov.in/eprocure/app as per the schedule given in the next page.

No manual bids will be accepted. All quotation (both Technical and Financial) should be submitted on the CPPP portal).

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Instructions for Online Bid Submission:

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL:http://eprocure.gov.in/eprocure/app). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: http://eprocure.gov.in/eprocure/app

REGISTRATION

1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (http://eprocure.gov.in/ eprocure/app) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.

2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.

3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.

4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify/TCS/nCode/eMudhra etc.), with their profile.

5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.

6) Bidder then logs in to the site through the secured log-in by entering their userID / password and the password of the DSC / eToken.

SEARCHING FOR TENDER DOCUMENTS/

1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.

2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

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 bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.

4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

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SUBMISSION OF BIDS

1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

2) The bidder has to digitally sign the bid document and upload the required bid documents one by one as indicated in the tender document.

3) Bidder has to select the payment option as "on-line" to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, an EMD / Tender fee is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS.

4) A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

5) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.

7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

8) Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

ASSISTANCE TO BIDDERS

1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

General Instructions to the Bidders

1) The tenders will be received online through portal http://eprocure.gov.in/eprocure/app .In the Technical Bids, the bidders are required to upload all the documents in .pdf format.

2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC".

3) Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.

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CHECK LIST

DULY FILLED CHECK LIST TO BE ATTACHED WITH THE TECHNICAL BID

Sl. No.	Particulars	Check Mark
1	Whether EMD/Exmption Details/Declaration attached?	Yes/ No
2	Whether technical specifications of the quoted equipment attached, along with point-wise technical compliance sheet?	Yes/ No
3	Whether catalog of the equipment attached?	Yes/ No
4	In case of authorized agent/distributor whether certificate/ authorization letter for the same issued by the manufacturer attached?	Yes/ No
5	Whether tender document along with all Annexures duly signed & stamped by the authorized signatory attached?	Yes/ No
6	Whether affidavit duly attested by the Oath Commissioner/Executive Magistrate regarding non-black listing of supplier attached?	Yes/ No
7	Whether list of Institutes/Organizations where the quoted model of equipment supplied by the tenderer in India is attached?	Yes/ No
8	Whether split rates of each sub units are quoted?	Yes/ No
9	Whether compliance sheet duly filled in, signed & stamped attached?	Yes/ No
10	Whether warranty certificate duly filled in, signed & stamped attached?	Yes/ No
11	Whether Bank Details duly filled in, signed & stamped attached?	Yes/ No

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GSTIN No. 03AAATI7702D1Z8 | PAN No. AAATI7702D

Notice Inviting Quotation

Indian Institute of Technology Ropar invites online Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for <Supply & Installation of <equipment name> with on site comprehensive warranty as per terms & conditions specified in the tender document, which is available on CPP Portal http://eprocure.gov.in/eprocure/app:

A complete set of tender documents may be Download by prospective bidder free of cost from the website http://eprocure.gov.in/eprocure/app.

General Terms & Conditions:

1. EMD:

EMD to be paid through RTGS/NEFT into "IIT Ropar R and D Account" Bank details are as mentioned in the schedule. The Technical Bid without EMD would beconsidered as UNRESPONSIVE and will not be accepted. The EMD will be refunded without any interest to the unsuccessful bidders after the award of contract. In case of successful Tenderer, it will be retained till the successful and complete installation of the equipment. If EMD exemption is requested as per provision under Rule No. 170 of GFR, bid security declaration needs to be submitted as per the enclosed format.

2. Preparation of Bids:

(a) Technical bid consisting of all technical details alongwith commercial terms and conditions and EMD Declaration; and

(b) Financial bid indicating item-wise price for the items mentioned in the technical bid.

The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e BoQ_XXXX. The Technical bid and the financial bid should be submitted Online.

3. Submission of tender:

The tender has to be submitted on-line before the due date. The offers received after the due date and time will not be considered. No manual bids will be considered.

4. Bidding:

a). Items of indigenous nature or quoted in INR, more than 1 authorized representative may participate in the same tender and submit their bids on behalf of their OEM/Principal/Manufacturer if the OEM permits more than one authorized bidder in such case as per their policy.

b). In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer

c). The letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. The same should be included by the bidder in its techno-commercial unpriced bid.

d). In a tender, either the Indian agent on behalf of the Principal / OEM or Principal /OEM itself can bid but both cannot bid simultaneously for the same item/ product in the same tender.

All offers other than those from the Principal/OEM should be supported by an authority letter from the manufacturer authorizing the supplier to tender on their behalf. In case of manufacturer a certificate or a copy thereof to the effect that the bidder is a manufacturer of the equipment must be accompanied with the technical bid prepared as per 'Annexure–C'.

5. Opening of Bids:

The online bid will be opened by a committee duly constituted for this purpose. Online bids (complete in all respect) received will be opened as mentioned in the "Schedule" in presence of bidders representative if available. Only one representative will be allowed to participate in the tender opening. Bid received without declartaion will be rejected straight way. The technical bid will be opened online first and it will be examined by a technical committee (as per specification and requirement). The financial offer/bid will be opened only for the offer/bid which technically meets all requirements as per the specification, and will be opened in the presence of the vendor"s representatives subsequently for further evaluation. The bidders if interested may participate on the tender opening Date and Time.The bidder should produce authorization letter from their company to participate in the tender opening

6. Price Bid:

Price bid should be submitted in given BOQ_XXXX.xls format online.
The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges. Price quoted should be in Indian Rupees, free delivery at IIT Ropar Campus at site (DDP/FOR).
Further, depending on the nature of the goods, there may be cost elements towards installation and commissioning, operator's training, and so on. Normally, it may be included in the equipment cost but if it is quoted separately, the same will be added in the item price for the determination of ranking of the bidders. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However, the percentage of taxes & duties shall be clearly indicated. Necessary certificate will be issued on demand. The Buyer/PFC will have the right to award contracts to different Bidders for being lowest in particular items. For ranking of offers, price of complete scope of supply as detailed in technical specifications, the procuring authority/Purchaser may decide as follows for comparison of price bid:

(i) All items of the bid which are mandatorily required to meet the tendered specifications of the item/system
(ii) If a bidder has put certain items/modules which are required to meet the tendered specifications in the 'optional' part of the bid, then such optional items shall also be included for the purpose of price comparison
(iii) On the other hand, if a bidder has inadvertently included any item/module in its main price bid which is not required as per tender specifications, then the price of such item/module shall be excluded from the price comparison provided that the price for the said item/module is clearly reflected separately in the bid
(iv) Anything asked as 'optional' in our specs is not to be included for overall comparison .

Non-conformities between Figures and words: Sometimes, non-conformities/errors are also observed in responsive tenders between the quoted prices in figures and in words. This situation normally does not arise in case of e-Procurement. This should be taken care of in the manner indicated below:
(i) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the total price will be corrected.
(ii) If there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected;
(iii) If there is a discrepancy between words and figures, the amount in words will prevail for calculation of price.

7. Taxes:

Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc.,incurred until delivery of the contracted Goods to the Purchaser. However, GST etc, in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.

8. Duties:

IIT Ropar is exempted from paying custom duty under notification No.51/96 (partially or full) and necessary "Custom Duty Exemption Certificate" can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, (no certificate will be issued to third party): The procured product should be used for teaching, scientific and research work only.
a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)
b) Forwarder details i.e. Name, Contact No., etc.

9. Rates Comparison:

Bidders are requested to send their rates on FOR, IIT Ropar basis in case of indigenous items and on FOB/FCA basis in case of imported items with separately mentioning CIF/CIP charges. Rates comparision will be made on Net Price (Including Freight/ Insurance/Installation/ Taxes/ Duties etc.) if offers are received both for indigenous and import items. If offers are received only for import items then comparison will be made on FOB/FCA basis. Rates of foreign currency will be taken from RBI website as on the opening of the technical bids for the purpose of conversion in Indian rupees.

10. Spares:

The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

11. Indigenous items:

The items which can/are to be provided indigenously may be listed separately.

12. Parts of Equipments:

Where the equipment is composed of several subunits/components, the rate should be quoted for each subunit/component. The Institute reserves the right to increase or decrease the number of subunits/components and number of equipment according to its requirements. The rates in ambiguous terms will render the quotation liable to rejection. The words "Not quoting" should be clearly written against any item of equipment for which the tenderer is not quoting.

13. Payment Terms:

Payment will be made to the supplier through following modes.

a). Indigenous goods:

Through NEFT/Cheque/Demand Draft: 90% payment will be made within 30 days from the date of receipt of material and inspection at IIT Ropar and balance 10% after successful installation of software/equipment and submission of performance bank guarantee (PBG) of equivalent value valid for the warranty period plus 60 days.

b). Imported goods:

Letter of credit/Telegraphic Transfer/Sight Draft – Payment will be made through LC/TT/SD after successful installation of the equipment.

Bank charges occured outside India will be borne by the beneficiary.

14. Acceptance of Terms & Conditions:

Bidders must confirm the acceptance of all the terms and conditions of this NIQ. Any non-acceptance or deviations from the terms and conditions must be clearly mentioned. However, tenderers must note carefully that any conditional offer or any deviation from the terms and conditions of this NIQ may render the quotation liable for rejection.

15. Service Manual/Curcuit Diagram

It is specifically required that the bidders will supply all the operating & service manuals and circuit diagrams alongwith the equipment.

16. Power Supply:

The equipment should be quoted only for 220 volts and 50Hz electricity supply. The extra requirement of line voltage, current rating etc. and the optimum climate and environment required for the equipment must be stated precisely. Voltage stabilizers/isolation transformers/CVT/UPS etc., as may be required shall be listed separately. The full technical specifications and literature in respect of the voltage stabilizer etc., must be furnished.

17. Warranty/AMC:

Duly signed and stamped certificate of comprehensive onsite Warranty/Annual Maintenance Contract (AMC) as per the formats enclosed with the technical bid. Successful firm will be required to agree for payment of penalty for exceeding permissible downtime during Warranty/AMC period.

18. Country of origin:

Country of origin of the quoted item should be mentioned in the offer in case of imported item.

19. Bidder from bordering ountry:

As per Ministry of Finance, Deptt. of Expenditure, Public Procurement Division Order (Public Procurement No.1) issued from file No.6/18/2019-PPD dated 23rd July, 2020 regarding Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs) 2017, it is directed that any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority i.e. the Deptt. for Promotion of Industry and Internal Trade (DPIIT). The said order will not apply to bidders from those countries (even sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects (updated lists of the countries are given in the Ministry of External Affairs)

“Bidder” (including the term ‘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 hereinbefore, including any agency branch or office controlled by such person, participated in a procurement process.

“Bidders 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 the 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

The beneficial owner for the purpose of 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 exercise control through other means.

Explanation:
a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of share or capital or profit of the company;
b. "Control" shall include the right to appoint majority of the directors or to control the management of policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
2. 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;
3. 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;

4. 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;
5. 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.
An agent is a person employed to do any act for another, or to represent another in dealings with the third person.
For Works contracts, including Turnkey contracts, the successful bidder shall not be allowed to subcontract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.
A certificate shall be submitted by bidders in the tender documents regarding their compliance with the said order. If the certificate submitted by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law.

20. Local content (MII):

It is mandatory for bidders to quote items having local content minimum 20%. Refer revised Public Procurement (Preference to Make in India), Order 2017, No. P-45021/2/2017-PP (B.E-II) dated 16.09.2020 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India. (Submit duly filled in delcaration as per the enclosed format). The declaration once submitted in the Technical Bid will be final. Submission of Revised declaration will NOT be accepted. As per O.M. of DPIIT, Ministry of Commerce and Industry, Govt. of India No.P-45021/102/2019- BE-II- Part (1) (E-50310) Dated 04.03.2021, Bidders offering Imported products will fall under the category of Non_Local Suppliers. They cannot claim themselves as Class-I or Class –II Local Suppliers by claiming the services such as Transportation, Insurance, Installation, Commissioning, Training and After Sale Service Support like AMC/ CMC etc. as Local Value Addition.

21. Service Facility:

Bidder should mention about the service set up in India and how capable they are to provide after sales services.

22. Training:

If required, should be included in your offer without any extra cost.

23. Banker's details:

Name and address of the banker of your company should be mentioned.

24. Reference of supply:

Name and contact details of the premier educational Institutes where the quoted equipment has been installed in India should be attached as per the enclosed format. Copies of at least two purchase orders may be attached(If possible). IIT Ropar reserves the right to inspect the equipment for its actual performance in any of the listed Institute.

25. Arbitration

i) In the event of failure to carry out the contractual obligations, within the stipulated period or extended period and determination of the contract for any reason, violation of warranties etc. the IIT Ropar shall have the right to carry out the unfinished obligation at the exclusive cost and risk of the bidder/firm, after due notice and the difference so accrued shall be recoverable from the bidder/firm.

ii) The provision of the Arbitration and Conciliation Act, 1996 or as at the relevant time and of rules framed there under and any statutory modifications thereof shall be deemed to apply and be incorporated in this agreement.

iii) Upon every or any such reference, the cost of any incidentals to the reference and award(s) respectively shall be at the reasonable discretion of the Arbitrators or in the event of their not agreeing, of the Umpire appointed by them who may determine the amount thereof or direct the same to be fixed as between solicitors and client or as between parties and shall direct by whom and in what manner the same shall be borne and paid.

iv) Panel of arbitrators will be provided by IIT Ropar out of which the bidder will have to select one.

v) The bidder shall have no objection if the officer who has dealt with the case at any stage is nominated as an arbitrator. Further, that one of the arbitrator's shall be Accounts Expert.

vi) In case of vacancy being caused due to resignation, death or incapacity of the arbitrator(s) to function as such, the same shall be provided in the aforesaid manner and the new arbitrator(s) shall proceed from the stage at which vacancy is caused.

26. Jurisdiction:

The Courts of Ropar alone will have the jurisdiction to try any matter, dispute or difference between the parties arising out of this tender/contract. It is specifically agreed that no Court outside and other than Ropar court shall have jurisdiction in the matter.

27. Force Majuere:

Any failure of omission or commission to carry out the provision of this contract by the supplier shall not give rise to any claim by one party, one against the other, if such failure of omission or commission arises from an act of God; which shall include all acts of natural calamities such as fire, flood, earthquake, hurricane, or nay pestilence or from civil strikes, compliance with any statute and/or regulations of the Government, lockouts and strikes, riots, embargoes or from any political or other reason beyond the supplier's control including war (whether declared or not) civil war or stage of insurrection, provided that notice of the occurrence of any event by either party to the other shall be given within two weeks from the date of occurrence of such an event which could be attributed to Force Majuere conditions.

28. Risk & Cost:

In the event of failure to carry out the contractual obligations, within the stipulated period or extended period and determination of the contract for any reason, violation of warranties etc. the IIT Ropar shall have the right to carry out the unfinished obligation at the exclusive cost and risk of the bidder/firm, after due notice and the difference so accrued shall be recoverable from the bidder/firm.

29. Inspection:

28. The material found defective upon opening by the supplier representative in presence of Central stores personnel/indenter of IIT Ropar or not as per tendered specifications will be lifted back at the cost and risk of the supplier. The material lying in the IIT Ropar premises would be at supplier's risk and cost.

30. Liquidated Damages:

In case the firm fails to execute the supply as per the purchase order in whole or in part as per the terms and conditions of PO, IIT Ropar can impose the penalty @1% per week of the undelivered stores, subject to a maximum of 10%. It will also be open to the institute to procure the required item(s) from any other source at the risk and expense of the firm.

Note: The Director, IIT Ropar reserves the right to accept/reject any or all tenders without assigning any reasons thereof and also to reject the material if the same is not found conforming to the specifications, with further right to affect risk and cost of the purchases.

(सहायक कुलसचिव/Assistant Registrar)
अनु. एवं वि. अनुभाग/R&D Section

ANNEXURE A
Setting Up of Geotextile Testing Facility

List of Equipment

1. Geotextile UTM
2. Large Scale Pullout Testing Apparatus for Geosynthetics
3. UV Weatherometer
4. Geotextile Abrasion Tester
5. Geotextile Permeability Apparatus
6. Hydro-dynamics sieve Test Apparatus
7. In-plane permeability Apparatus
8. Cross permeability Apparatus

TECHNICAL SPECIFICATIONS

1. Geotextile UTM

Requirement: Specifications for Computerized Electronic Universal Testing Machine for Geotextiles with Accessories

The system is required to conduct Tensile/Compression/Bend/Flexure/Creep tests on Geosynthetic materials (Geotextile, Geomembrane, Geogrid, Geonet, etc.) and also for different materials such as Metals, Rubbers, Cables, Fabrics, Tapes, Thread, Plastic, etc. conforming to testing procedure laid down in respective ASTM, BS, EN, ISO standards.
The system comprises a Loading Frame, Electronic Control Unit and Data Acquisition, Data Monitoring and Process System, Dedicated Software Package, Load Cells, Displacement Transducer, and all essential Accessories.
The following specifications should be met. Separate prices be provided for items A, B, C, D, E, F, G and H.

Standards ASTM D4595

Sl. No.	Particulars	Quantity
A	**Loading Frame**	**01**
1	Computer Controlled Electromechanical loading frame suitable to conduct Tensile/Compression/Bend/Flexure/Creep tests on Geosynthetic materials (Geotextile, Geomembrane, Geogrid, Geonet, etc.) and also suitable for different materials such as Metals, Rubbers, Cables, Fabrics, Tapes, Thread, Plastic, etc. conforming to *testing*. **The load frame should be servo-controlled with a highly sensitive servo motor.** The Load frame should be floor-standing, with a crosshead driven by a ball screw coupled to a highly sensitive	

	servo motor. A servo motor controller drive should be fitted in the frame to monitor over/under voltage, current, and temperature. The frame design should allow a single test zone for tension and compression tests. It should be fitted with a sensor to set the initial position of the moving arm. The frame should have safety features to protect against overtravel (upper and lower limits) and overload. The upper and lower crosshead limits can be easily set at any point within the frame's clearance. An emergency switch should be provided to shut down the system in case of any accident or malfunction procedure laid down in respective ASTM/ ISO standards. • Capacity (kN): 100 • Measuring range of load: 0.4% - 100% • Min. Test Speed (mm/min.): 0.01 • Max. Test Speed (mm/min.): 500 • Setting/Cross Head Return Speed (mm/min.): 1000 • Speed Accuracy (%): ≥ ± 1 • Relative error of Indication- ± 0.5 • Horizontal Clearance (Test Space between columns) (mm): 500 • Vertical Clearance (mm): 1200 • Speed control range of displacement mm/min – 0.005-500 • Speed control accuracy of displacement- 0.2% • Total Crosshead Travel (mm): 1400 • Position Resolution (mm): 0.01 • Span (Test span b/w columns) mm- 1000	
B	**Load Cell (to be quoted separately)**	**Total 03**
1	The structure of the load cell should be such that it can be loaded in tension and compression over a few million times. • A set of three Universal load cells of different capacities ***1 kN with 0.001 kN or less resolution,*** ***10 kN with 0.01 kN or less resolution*** ***50kN with 0.1 kN or less resolution*** **(Qty- 01 each should be quoted separately)** • The reading of the selected load cell should be displayed on the software screen.	
C	**Electronic Control Unit and Data Acquisition (to be quoted separately)**	**01**
1	The electronic control unit and data acquisition/signal conditioning should be the two-function high-speed system. The channels should be Load and Displacement directly calibrated in their respective engineering units. Load should be indicated in terms of N/kN with a resolution depending upon the capacity of the selected load cell and displacement in mm with a resolution of 0.01mm. The load cell should measure the Load, and the Rotary Encoder should measure displacement. The system should receive both channels' output signal as its input and amplify the same. The data of both the machine channels can be transferred to a computer and monitored online in the software.	
D	**Data Monitoring and Process System**	**01**

1	Standard Computer System for Monitoring: Intel i7 Processor, Memory: 8GB, 8Gx1, DDR4, 2933MHz Hard Drive: 512GB M.2 PCIe NVMe Solid State Drive Video Card: Intel® UHD Graphics 630 with shared graphics memory Wireless Driver: Dell Wireless 3165 Driver Wireless: 802.11ac 1x1 Wi-Fi and Bluetooth Optical Drive: Tray load DVD Drive (Reads and Writes to DVD/CD) Power Cord: System Power Cord (India) Monitor: Not less than 24 inch Keyboard and Mouse: Wireless Keyboard and Mouse Combo,UPS 500VA	
E	**Dedicated Software Package (to be quoted separately)**	**01**
	Controlling and online data acquisition on PC through user-friendly software and statistical analysis of the obtained results. • Windows-based user-friendly software with easy user interface. • The facility will select and control test tension, compression, bending, shear, etc. • Programmable Test Speed (0.01mm/min-500mm/min.) with automatic control of loading rate during test. • Programmable Sample input parameters such as Identification code, shape, Dimension, Area, date, test speed, preload in kN, etc. • Facility to create Test Setups or Test Profiles. • Single key operation to Preload, start the test, Stop and Return operation through the computer. • Automatic Stop or Return to Home position after sample failure. • Independent taring or auto-taring of each channel at a predefined load. • Online display of numerical values of Load, Displacement, and Extensometer. • Online plotting of data of Load v/s Time, Displacement v/s time, Load v/s Extensometer and Load v/s Displacement graphs, etc. • Auto-scaling of the graphs in real-time. • Auto shutdown on failure or over-limit values during testing. • Real-time clock for tracking dates, times, and runs. • Facility to save test data and order information about the specimen such as age, specimen number, size, dimensions etc. in a user-defined file/directory.	
F	**Analysis Software (to be quoted separately)**	**01**
	• Plotting of following graphs-Load v/s Time, Displacement v/s Time, Load v/s Displacement, Stress v/s Strain, etc. • Calculating various parameters depending upon the test conducted: peak Load, Tensile Strength, Maximum deformation at peak load, Compressive Strength, Modulus of Elasticity, Flexural Strength, etc. • Facility to plot the data for a selected run. • Comparative analysis using multigraphs.	

	• Statistical analysis of the test results. • Batch Summary Report. • Detailed Summary Report. • Advanced Statistical Analysis. • Facility to print Test Reports. • Facility to Export Data to MS Excel	
G	**Displacement Transducer (to be quoted separately)**	**01**
	• The variation in strain/deflection/cross-head movement etc. should be measured with the help of the Displacement Transducer and displayed on the software screen. • Range: 1000 mm • Resolution: 0.1 mm Measuring Accuracy: + > 0.5%	
H	**Accessories (to be quoted separately)**	
1	Hydraulic-pneumatically operated Grips with complete hydraulic & pneumatic controls for Wide Width Tensile Strength Test as per ASTM D4595 & ISO 10319 for Geo-textile.	**01 set**
2	Manually operated Mechanical Grips for Wide width Tensile Strength Test as per ASTM D4595 & ISO 10319 for Geo-textile	**01 set**
3	Grips suitable for Grab Test as per ASTM D4632	**01 set**
4	Grips for Trapezoidal Tearing Strength Test as per ASTM D4533	**01 set**
5	Puncture Test Attachment as per ASTM D4833	**01 set**
6	CBR Puncture Test Attachment as per ISO 12236	**01 set**
7	Creep Test Attachment with two LVDTs conforming ASTM D5262-2002 with Digital readout unit. Roller Grips are suitable for clamping Geo-synthetic material without slippage during Creep Tensile tests.	**01 set**
8	Roller Grip for testing of PVC coated Geo-grid as per ASTM D6637 / ISO 10319 method	**01 set**
9	Compression test attachment: Round Pressure Platen of diameter 100mm	**01 set**
10	Tool kits	**01 set**

2. Large-Scale Pullout Testing Equipment for Geosynthetics

Requirement: Specifications For Computer Controlled Large Scale Geosynthetics Pullout Equipment

This equipment should be suitable to determine Pull out Resistance/interface Shear resistance of Geosynthetic material in Soil conforming to ASTM Standard. It is suitable for testing 1500mm x 1000mm x 1000mm Sample containing soil and geosynthetic to Evaluate soil to Geosynthetic friction Characteristics as per ASTM 6706-01 2007. The unit provides variable rate of strain for pulling load ranging from 0.0001mm/min - 9.9999 mm/min

Standards: ASTM 6706-01 2007

S. No.	Particulars	Quantity
A	**Loading Frame**	**01**
1	It is a welded structure, self-straining type where no load is transferred to the ground except self-weight of equipment. It is fitted with one hydraulic Jack and one motorized gear box system, one for Normal Loading (Static) and other for Pull out. Vertical cross head position can change with chain pully arrangement. **The load frame should be servo-controlled with a highly sensitive servo motor.** The Load frame should be floor-standing, with a crosshead driven by a ball screw coupled to a highly sensitive servo motor. A servo motor controller drive should be fitted in the frame to monitor over/under voltage, current, and temperature. The frame design should allow a single test zone for tension and compression tests. It should be fitted with a sensor to set the initial position of the moving arm. The frame should have safety features to protect against overtravel (upper and lower limits) and overload. The upper and lower crosshead limits can be easily set at any point within the frame's clearance. An emergency switch should be provided to shut down the system in case of any accident or malfunction procedure laid down in respective ASTM/ ISO standards. • Capacity (kN): 250 • Pull out Load (kN): 100 • Pullout Displacement (mm):100 • Pull out Rate Range: 0.0001mm/min.- 9.9999 mm/min.	
B	**PULL OUT BOX ASSEMBLY**	**01**
1	Fitted on the Loading unit, consisting of followings: • Pull-out box assembly with a dimension of 1500 mm x 1000 mm x 1000 mm in two halves, which can be Fitted on the Loading unit, consisting of the following: • Two smooth parallel sides, a back wall, a horizontal split removable door, a bottom plate, and a load transfer sleeve. • Two Thin plates and required accessories to perform Pullout Resistance test on Geosynthetic as per ASTM standard.	

	• Clamping device having swivel movement to achieve uniform tension without slippage.	
C	**HYDRAULIC JACK FOR VERTICAL STRESS (STATIC ONLY COMPRESSION))**	**01**
1	Hydraulic Jack is a linear motion device, which gives a controlled motion either on stress basis or strain basis. It is a precision piece of equipment which follows the command signal from the wave generator through the Servo Proportional valve. It has rod and piston with surface finish of 0.2 microns. End plates have PTFE seals for better side thrust. An inline coaxially mounted LVDT/ Potentiometric linear position transducer is fitted in the Hydraulic Jack to measure displacement of Hydraulic Jack and also run the system in displacement control mode. Servo Proportional valve is fixed to the Hydraulic Jack. Spherical ball seating arrangement for prevent side load. **Technical Specification** **Action:** Double Acting single ended **Working Capacity**: 250kN (Compression) **Working Stroke**: 200mm **Pressure Required**: 200Bars **Servo Proportional Valve**: 20LPM **Load cell Capacity: 300kN** (Compression Type)	
D	**Servo Proportional valve manifold**	**01**
1	A Servo Proportional valve with Pressure Line filter is fitted on the manifold block that controls the movement of the ram as per given command signal from controlled electronics	
E	**Servo Proportional Valve**	**01**
	It gives a controlled motion either on stress basis or strain basis. It is a precision piece of equipment which follows the command signal from the wave generator through the Servo Proportional valve. Direct operated digital Servo Proportional valves in sleeve execution with position transducer and zero spool overlap for best performances in any position closed loop control valve having sufficient Flow and pressure is attached on the hydraulic Jack. Flow: 20 LPM	
F	**Load Cell**	**01**
	It is a strain gauge-based type load cell with full wheat-stone bridge configuration. Structure of the load cell is such that it can be loaded in compression over few million numbers of times. It has Alloy tool steel, electro less nickel-plated structure for outstanding corrosion resistance. **Technical Specification of load cell** • **Capacity:** 300kN • **Resolution**: 0.1kN • **Accuracy:** 0.5% of indicated value • **Full Scale Output**: 2.0 mV/V • **Non-Linearity**: < + 0.10% FSO • **Hysteresis**: < + 0.15% FSO • **Non-Repeatability**: < + 0.10% FSO	

	• **Creep (30 minutes):** < + 0.04% FSO • **Excitation Voltage:** 10 Volts DC • **Safe overload**: 150% • **Operating Temperature**: 0^{O}C to +60	
G	**Displacement Transducer**	**01**
	The variation in strain/deflection/cross-head movement etc. should be measured with the help of the Displacement Transducer and displayed on the software screen. **Technical Specification of LVDT** • **Range:** 200mm • **Full Scale Output**: 10.0 Volts • **Independent linearity**: + 0.05% of FS • **Repeatability:** <0.01mm • **Hysteresis:** <0.01mm • **Pressure Withstand**: Up to 600 Bars • **Excitation Voltage**: 24 Volts DC • **Sampling Rate standard**: 2kHz • **Operating Temperature**: 0O to +60 O C • **Protection Class**: IP67	
H	**HYDRAULIC POWER PACK**	**01**
1	• Hydraulic power supplies are compact in design based on Servo/Proportional control • principle and are suitable for the supply of required flow and pressure for the actuation of the Hydraulic Jack to carry out various tests as per different standard for static tests. It has an oil tank of adequate capacity, a Fixed Vane Pump powered by and three phase motor construction of tank are MS sheet. It includes all the accessories like pressure line filter, return line filter, oil level, relief valve, clogging filter, Temperature sensor for temperature measurement and Anti vibration mountings are provided as standard along with the HPS. A suitable heat exchanger would be provided for cooling of the hydraulic oil. Temperature controller is provided to prevent overheating of the hydraulic beyond 50°C. **Technical Specifications** • **Flow of the pump**: 20 LPM • **Max. Operating pressure**: 210Bars • **Type of pump**: Fixed Vane Pump • **Capacity of the oil tank**: 100 liters • **Power rating of the motor**: 10 H.P. • **Return line filter**: 10 microns • **Cooling Capacity and Type**: Air cooled Heat Exchanger	**01 set**
2	**PULL OUT ASSEMBLY WITH SERVO MOTOR AND GEAR BOX** Variable speed with servo motor and gear box (displacement rate variable) • **Range:** 0.0001mm/min.- 9.9999 mm/min • **Pull-out capacity**: 100 kN in horizontal directions. • **Pull out travel(mm):** 150 • **Provision for adjustment of level platform**	**01 set**

	• **Provision of movement of frame along with platform on the base.** • **Mounting facility for load cell and LVTD in the system** • **Inextensible cable for attachment to pull-out load application unit**	
3	**TRANSDUCER IN PULLOUT ASSEMBLY** It is a strain gauge-based type load cell with full wheat-stone bridge configuration. Structure of the load cell is such that it can be loaded in compression over few million numbers of times. It has Alloy tool steel, electro less nickel-plated structure for outstanding corrosion resistance. **Technical Specification of load cell** • **Capacity:** ±100kN • **Resolution:** 0.1kN • **Accuracy:** 0.5% of indicated value • **Full Scale Output:** 2.0 mV/V • **Non-Linearity:** < + 0.10% FSO • **Hysteresis:** < + 0.15% FSO • **Non-Repeatability:** < + 0.10% FSO • **Creep (30 minutes) :<** + 0.04% FSO • **Excitation Voltage:** 10 Volts DC • **Safe overload**: 150% • **Operating Temperature:** 0ºC to +60 • **Displacement Transducer (Potentiometric Type) For pullout** • **Resolution of LVDT:** 0.01mm **Technical Specification of LVDT** • **Range:** 150mm • **Full Scale Output:** 10.0 Volts • **Independent Linearity:** + 0.05% of FS • **Repeatability:** <0.01mm • **Hysteresis:** <0.01mm • **Pressure Withstand:** Up to 600 Bars • **Excitation Voltage:** 24 Volts DC • **Sampling Rate standard:** 2kHz • **Operating Temperature:** 0O to +60 O C • **Protection Class:** IP67	**01 set**
4	**DATA ACQUISITION AND CONTROL SYSTEM WITH APPLICATION SOFTWARE** Signal Conditioning and Control Unit with Transducers. The signal conditioning and control unit have driven cards that controls the operation of the two Jacks independently to set the normal stress and pullout load. Signal conditioning unit also receives the output signal from the various transducers (Load cells and Displacement Transducers) and amplifies and process that signal as per the requirement and transfer it to computer through connecting cables where it is accepted by the data acquisition system. The readings of Pull-out Load, Normal stress, Horizontal and Vertical Displacement are directly indicated in the computerized display. The Load is	**01 set**

	displayed in terms of 'kN' with a resolution of 0.1kN, Normal stress in 'kN/m2' with resolution of 0.1kN/m2, Horizontal Displacement and Vertical Displacement in terms of mm with a resolution of 0.01mm each. The readings of Pull-out Load, Normal stress, Horizontal and Vertical Displacement are directly indicated in the computerized display. **Technical Specification** • 12 channel data acquisition system • Interface facility through RS-232 for PC/Laptop • Electronic Data Acquisition System (All readings - Pullout load, displacement & strain to be recorded automatically & stored). **Displacement transducers For Horizontal deformation measurement** • Range: 100mm • Resolution: 0.01mm • Accuracy: ≤± 0.5% of indicated value of displacement • Quantity: 02 Numbers • Range: 150mm • Resolution: 0.01mm • Accuracy: ≤± 0.5% of indicated value of displacement • Quantity: 02 Numbers **Displacement transducers For Vertical deformation measurement** • Range: 50mm • Resolution: 0.01mm • Accuracy: ≤± 0.5% of indicated value of displacement	**02** **04**
5	**COMPUTER FOR CONTROLLING AND DATA ACQUISITION** System is provided with dedicated computer with built in data acquisition card for controlling and data acquisition. Standard Computer System for Monitoring: Intel i7 Processor, Memory: 8GB, 8Gx1, DDR4, 2933MHz Hard Drive: 512GB M.2 PCIe NVMe Solid State Drive Video Card: Intel® UHD Graphics 630 with shared graphics memory Wireless Driver: Dell Wireless 3165 Driver Wireless: 802.11ac 1x1 Wi-Fi and Bluetooth Optical Drive: Tray load DVD Drive (Reads and Writes to DVD/CD) Power Cord: System Power Cord (India) Monitor: Not less than 24 inch Keyboard and Mouse: Wireless Keyboard and Mouse Combo, UPS 500VA	**01 set**

3. UV Weatherometer

Requirement: Specifications for UV Aging Test Chamber

The UV Accelerated weathering test chamber (UV aging test chamber) stimulates dew and rain with consideration for humidity and/or water spray equipped with a fluorescent UV lamp which can completely simulate the UV spectra of sunlight and exposes materials to alternating cycles of UV light and moisture at controlled. It's most widely used for weathering tests for types of damages include color change, gloss loss, chalking, cracking, crazing, hazing, blistering, strength loss and oxidation. It adopts 8 pieces of UV lamps (40W) as the light source. The lamps are distributed on two sides inside the chamber, 4 pieces for each side.

Referring Standard: ASTM D4329, ISO 4892-3, ISO 11507, ISO 22182:2020

Quantity 1 No.

S. No.	Particulars	Description
Size & specification		
1	Interior size	24 sets of fixtures (size: L280xW75mm), for 48PCS samples placed in total.
2	Exterior size	1300×1560×600 mm appr. (WHD)
Performance		
1	Temp. control	PID self-adjustment SSR control
2	Irradiation temp. range	RT+10°C ~ 70°C
3	Condensing temp. range	RT+10°C~ 70°C
4	Temp. deviation	±3.0°C
5	Temp. resolution	0.1°C
6	Temp. fluctuation	±0.5°C
7	Tempe. uniformity	±3.0°C
8	Humidity range	≥93%R.H
9	Distance between lamps	70 mm
10	Distance between samples and lamps	100 mm ~ 350 mm
11	Irradiation range	0.35 W/m^2 ~ 1.0 W/m^2
12	Irradiation lighting tube	Q-lab Lamp UVA, L=1200/40 W, Φ 38 mm, 8pcs (average service life: 1600 hrs)
Structure & Material		

1	Inner material	SUS#304 stainless steel
2	External material	Painted shell or SUS#304 stainless steel
3	Duct circulation	Centrifugal circulation motor
4	Door and lock	Door handle lock, left door
5	Control panel	• LCD 7-inch touch screen controller, with programmable temp., humid., UV (sun), and time and Fix mode of 2 running modes. • USB interface (Download historical data and historical curves as Excel and JPG) • Power switch button • Run Indicator • Water auto-supply button "Water Inlet" • Alarm indicator
6	Power cord	The back of the device is equipped with a drain outlet and a national standard 2.5m long cable.
Control System		
1	Control mode	Program: 50/100 groups of programs, each group of programs with 50/100 segments, can set the whole cycle of the program, part of the cycle, program connection, set the program end action, standby action.
2	Features	• 7-inch human-machine interface touch screen (English language) • The software is independently developed by Sail ham and has a software copyright registration certificate. Flat design, easy to operate
3	Sensor	PT100 three-wire high-precision sensor
4	Analog output	Voltage pulse (SSR) 2 points, DC 24V, minimum pulse width 5ms.
5	Quality assurance system	Should follow the requirements of ISO 9001:2015 quality management system and European CE product certification.
6	Standard accessories attached to the machine	• Stainless steel SUS # 304 Shelf layer 1pc • Power cord 1pc • 8 pieces of lighting tube installed in the equipment • Operation • maintenance instructions copy • Controller manual copy

4. Geotextile Abrasion Resistance Tester

Requirement: Specifications for Abrasion Resistance Tester for Geotextile

Abrasion Resistance Tester for Geotextile is used to determine the resistance of geotextile or geotextile-related products to abrasion using an abrasion tester by sand paper/sliding block method. It is only applicable to geotextile, not to geomembrane or geogrid. Made of stainless steel. Number of strokes are adjustable. Easy to use.

Standards: ISO 13427, ASTM D4886

Quantity 1 No.

Sl. No.	Particulars
A	**Technical Specification**
1	Effective abrasion area: 50x200mm
2	Speed of the reciprocating plate: 90 CPIV1
3	Stroke length
4	Load: 6±0.01kg
5	Range of the counter: 1`9,999,
6	Power supply

5. Geotextile Permeability Apparatus

Requirement: Specifications for Geotextile Permeameter

The Geotextile Permeameter is designed to determine the **permittivity (cross-plane water flow rate)** of **geotextiles**, particularly **coir geotextiles**, in both **falling head** and **constant head** configurations. The test is performed under uncompressed conditions to simulate field performance

Standards: ISO 11058:2019

Quantity 1 No.

Sl. No.	Particulars
A	**Technical Specification**
1	**Test Methods:** Constant Head, Falling Head
2	**Specimen Holder Assembly:** Suitable for **73 mm and 100 mm diameter** samples
3	**Housing Material:** Metal housing for specimen holder assembly
4	**Water Supply:** Pump system for delivering **de-aired water** from below the specimen holder assembly

5	**Water Tank Capacity: 100 liters**
6	**Water Tank Stand: Steel stand** for placing the water tank adjacent to the unit
7	**Water Tank Features**: Equipped with water level gauges
8	**Head Differential measurements:** Mounted on a stand for precise measurement
9	**Inlet and outlet valves**: For controlling water flow through the specimen
10	**Test Range water flow**: Suitable for conducting tests for different permeabilities
11	**Test Condition**: Uncompressed geotextile samples
12	**Dimension**: Specimen holder assembly: Suitable for 73 mm and 100 mm dia samples
13	**Pump Capacity**: Suitable for continuous supply of de-aired water during testing

6. Hydro Dynamic Sieve Test Apparatus

Requirement: Specifications for Hydro Dynamic Sieve Test apparatus

The percentage passing of different fractions determines the porosity of the geotextile being investigated. In the Hydrodynamic Sieving Method, the geotextile specimen loaded with a certain quantity of glass bead fraction, is continuously rotated in a water trough, forcing the glass beads to pass through the geotextile openings.

Standards: ASTM D4491

Quantity 1 No.

Sl. No.	Particulars
A	**Technical Specification**
1	Water Tank size: 230mm×170mm×150mm
2	Standard drum size: 14 cm & 7 cm
3	Drum size: φ140mm×100mm, 2 pcs
4	Speed of Drum: 5 rpm to 30 rpm.

7. In-plane Permeability Testing Apparatus

Requirement: Specifications for In-plane Permeability Tester for Geotextile

Standards: ISO11058:1999, ASTM D4491, ISO 10776:2012

Quantity 3 Nos.

Sl. No.	Particulars
A	**Technical Specification**
1	Style: Floor stand
2	Inner diameter of clamps: Φ52±1mm, Φ100±1mm
3	Specimen thickness: 0.1~10mm
4	Resolution of water head: 1mm

5	Adjusting mode of water head height: Stainless steel lifting screw, manual
6	Method to keep constant water head: Variable water pump, frequency conversion to adjust the pump water
7	Power supply: 220V 50HZ/60HZ
8	Max. Dimensions: 1520×570×1700mm (L×W×H)
9	Weight: 150 to 180 kg

8. Cross Plane Permeability Test apparatus

Requirement: Specifications for Cross Plane Permeability Test apparatus

Standards: ISO 11058:2019

Quantity 3 Nos.

Sl. No.	Particulars
A	**Technical Specification**
1	**Test Method: Constant head/Falling Head**
2	**Constant Head: 50 mm**
3	**Specimen Diameter:** 100 mm
4	**Flow Direction:** Cross-plane (normal to geotextile surface)
5	**Water Supply System:** Overhead Tank, 110 ltr. Capacity
6	**Sample Holder:** Watertight assembly with inlet and outlet valves
7	**Material Compatibility:** Geotextiles, coir geotextiles, and related materials
8	**Housing/Stand:** Corrosion-resistant frame with integrated piping

Terms & Conditions

Installation and training

- Onsite installation and training
- Warranty: **Three Years** with yearly maintenance and calibration shall be included without additional cost.
- The cost of optional items may be indicated separately; this will be procured subject to the budget availability. However, any essential accessories (which can impact the functionality of the equipment), not listed above should be added in the bid without additional cost.

Other Details / Requirements

- The Bidder/OEM should have more than 10 years of experience in manufacturing of similar equipment in their manufacturing facility, proof of supporting document to be attached along with technical bid.
- The OEM/Bidder should have In-house National Accreditation Board for Testing and Calibration laboratories (NABL) for Testing & Calibration facility.

- The minimum average annual financial turnover of the bidder during the last two years should not be less than 25 Cr.
- The OEM should have ISO 9001:2015, ISO 140001-2015, ISO 45001-2018 certifications.
- IIT Ropar can ask for presentation and demonstration of the quoted equipment to check its performance. The demonstration may be taken as one of the qualifying criteria for technical bid.
- The Manufacturing Capacity & capabilities of the supplier and the workmanship of the instrument shall be assessed by a concerned official before finalizing the order.
- Minor variations in the equipment dimensions, materials, discharge requirements, etc. may be considered, provided the basic functionality of the equipment is not compromised.
- All electrically operated accessories/pumps/motors/control units should be compatible with electricity supplied in India with all necessary safety features. The supplier should instal the equipment in the laboratory at the designated place without any additional cost.
- Prices of AMC per year should be provided separately.
- All the tenders must comprise of a technical bid and financial bid in separate sealed covers.
- The technical bid must contain
    1) A comprehensive literature in English comprising the user manual, specifications, the material used, dimensions, details of the supporting structure, operating procedure etc. for each equipment,
    2) The OEM/Bidder must have supplied similar equipment to at least 4CFTIs, preferably IITs. Documents pertaining to satisfactory supply, installation, demonstration/training and performance of the quoted equipment's from the authorized authority, preferably concerned faculty in-charge or the head of the department of at least 4 CFTI's. The name and contact details of the person issuing the certificate must be clearly mentioned on the issued certificate. The evaluation of the technical bid may also involve a presentation from the bidder. The financial bid would be opened only if the technical bid satisfies the prerequisites.
- The selected vendors shall be asked to supply the equipment within 3 months of the issue of the purchase order from IIT Ropar.
- Supplier/manufacturer blacklisted by any Govt. Organization will not be considered. A declaration letter mentioning the same must be submitted.
- The supplier must submit an undertaking on their official letterhead, ensuring payment-based post-sales services, including calibration, repair, or equipment upgrades, for at least 10 years after the warranty period.
- The supplier must provide a comprehensive quote for all the equipment; partial or split tender quotes will not be accepted.
- No modifications to the tender document will be entertained by the indenter during the tender process, unless, justified to all purchase committee members.

x----END----x

अनुसंधान एवं विकास अनुभाग, भारतीय प्रौद्योगिकी संस्थान रोपड़
Research & Development Section, Indian Institute of Technology Ropar
Rupnagar, Punjab-140001, Ph. 01881-231149, E-mail: purchase.rnd@iitrpr.ac.in
GSTIN No. 03AAATI7702D1Z8 | PAN No. AAATI7702D

Annexure-B

Technical Compliance Sheet

Specifications	Compliance of quoted model	Compliance of alternate model	Remarks (Deviations)

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Annexure-C

FORMAT FOR MANUFACTURER'S AUTHORISATION CERTIFICATE

To,
The Registrar
Indian Institute of Technology Ropar
Nangal Road, Rupnagar-140001

Subject: Tender for "_____".

Dear Sir,

We manufactures of original equipment at (……..address of factory……) do hereby authorize M/s (Name and address of Agent) to submit a bid, negotiate and receive the order format against your tender enquiry.

M/s. …….. is authorized to bid and conclude the contract in regard to this business.

We hereby extend our full guarantee and warranty as per clause …… conditions NIQ for the goods and services offered by the above firm.

Yours faithfully,

[Name & Signature]
For and on behalf of M/s. _____ [Name of manufacturer]

Note:

1. Items of indigenous nature or quoted in INR, more than 1 authorized representative may participate in the same tender and submit their bids on behalf of their OEM/Principal/Manufacturer if the OEM permits more than one authorized bidder in such case as per their policy.

2. In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer

3. The letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. The same should be included by the bidder in its techno-commercial unpriced bid.

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GSTIN No. 03AAATI7702D1Z8 | PAN No. AAATI7702D

Annexure-D

FORMAT FOR NON BLACKLISTING OF SUPPLIER

I/ We _____Manufacturer/partner/Authorized Distributor/Agent (strike out which is not applicable) of (Supplier) _____ do hereby declare and solemnly affirm that the individual/firm/company is not black-listed by the Union/State Government/Autonomous body.

Deponent

Address _____

I/ We hereby solemnly declare and affirm that the above declaration is true and correct to the best of my knowledge and belief. No part of it is false and nothing has been concealed.

Deponent

Dated: _____

(Note: To be furnished on non-judicial stamp paper duly attested by the Oath Commissioner.)

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Annexure-E

PROFORMA FOR USER/CLIENT LIST

Sl. No.	Name & full address of	Purchase Order No. & Date	No. of Units (Qty)	Model No. with Date of Installation	Contact person with cell, phone and e-mail id

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Annexure-F

ON THE COMPANY/FIRM LETTER HEAD

To,

The Registrar
Indian Institute of Technology Ropar
Rupnagar, Punjab-140001

Subject: Submission of RTGS/NEFT details

As requested, the detail of RTGS/NEFT in respect of M/s_____ is as follows:

Beneficiary Name:	
Bank Name:	
Branch Name:	
Branch Code:	
Bank Address:	
Type Of A/C.:	
Bank A/C. No.:	
IFS Code:	
MICR No:	
PAN Of Beneficiary:	
Service Tax No.:	
TIN No.:	
Name Of Contact Person:	
Telephone/Mobile No.:	
Email Id:	

Certified that above mentioned details are true and correct.

For M/s _____

(Authorised signatory)

FOR BANK USE ONLY

Verified the above mentioned detail and signature as per the records maintained by _____ (bank name).

Signature (with bank seal)

Code_____

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GSTIN No. 03AAATI7702D1Z8 | PAN No. AAATI7702D

Annexure-G

DECLARATION SHEET

We, _____ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification. This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty. The prices quoted in the financial bids are subsidized due to academic discount given to IIT Ropar

We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking.		Name & Address of the Vendor/ Manufacturer / Agent
1	Phone	
2	Fax	
3	E-mail	
4	Contact Person Name	
5	Mobile Number	
6	GST Number	
7	PAN Number	

(Signature of the Tenderer)
Name: _____
Seal of the Company

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Annexure-H

<On Organization Letter Head>

(For Goods/ Services Contracts)

<CERTIFICATE>

Tender No. …… Date: ……..

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that this bidder is not from such a country.

OR (whichever is applicable)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that this bidder is from _____(Name of Country) and has been registered with the Competent Authority. I also certify that this bidder fulfills all the requirements in this regard and is eligible to be considered.

(Copy/ evidence of valid registration by the Competent Authority is to be attached)

Signature of Bidder/ Agent
Name: _____
Designation: _____

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Annexure-I

DECLARATION OF LOCAL CONTENT

(To be given on Company Letter Head – For tender value below Rs.10 Crores)
(To be given by Statutory Auditor/ Cost Auditor/ Cost Accountant/ CA for tender value above Rs.10 Crores)

To,
The Registrar
Indian Institute of Technology Ropar
Rupnagar, Punjab - 140001

Subject: - Declaration of Local Content

Tender Reference No.:

Name of Tender/ Work:

1. We hereby declare that items offered has _____% local content (DPIIT OM No. P-45021/2/2017-PP (BE-II) dated 16.09.2020) & (DPIIT OM No. P-45021/102/2019-BE-II-Part(1) (E-50310) dated 04.03.2021)

2. Class of Supplier:
☐ Class - I
☐ Class - II

"Local Content" means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

"*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law."

Yours faithfully,

(Signature of the bidder, with Official Seal)

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GSTIN No. 03AAATI7702D1Z8 | PAN No. AAATI7702D

Annexure-J

<TO BE PROVIDED BY OEM ON LETTERHEAD>

DECLARATION OF COUNTRY OF ORIGIN

(To be given on Company Letter Head – For tender value below Rs.10 Crores)
(To be given by Statutory Auditor/ Cost Auditor/ Cost Accountant/ CA for tender value above Rs.10 Crores)

To,
The Registrar,
Indian Institute of Technology Ropar
Rupnagar, Punjab - 140001

Subject: - Declaration of Country of Origin

Tender Reference No:

Name of Tender/ Work:

1. Country of Origin of Goods being offered:_____(OM No. 6/18/2019-PPD dated 23.07.2020)

"Local Content" means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

"*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law."

Yours faithfully,

(Signature of the bidder, with Official Seal)

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Annexure: K

CERTIFICATE OF WARRANTY (IF REQUIRED)

i). I/We certify that the warranty shall be for a period of (as mentioned in the tender) comprehensive warranty starting from the date of satisfactory installation, commissioning and handing over of the equipment and of the works conducted therewith covered under the supply order in working order. During the warranty period, I/we shall provide free "after sale service" and the replacement of any part(s) of the equipment or rectification of defects of work of the equipment will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above warranty shall begin only from the date of satisfactory and faultless functioning of the equipment for 60 days at IIT Ropar premises. The benefit of change in dates of the warranty period shall be in the interest of the use/your organization.

ii). During the warranty period, we shall provide at least 3 preventive maintenance visits.

iii). Uptime Guarantee: During the warranty period, we will be responsible to maintain the equipment in good working conditions for a period 328 days (i.e. 90% uptime) in a block of 365 days.

a). All complaints will be attended by us within 2 weeks of receipt of the complaint in our office.

b). In case there is delay of more than 2 weeks in attending to a complaint from our side then you can count the number of days in excess of the permissible response time in the downtime. The above said response time of 2 weeks for attending to a complaint by us will not be counted in the downtime.

c). Penalty: We shall pay a penalty equivalent to 0.1 % of the FOB value of the equipment for every week or part thereof delay in rectifying the defect.

Note: The right to accept the reason (s) for delay and consider reduction or waive off the penalty for the same shall be at the sole discretion of Director, IIT Ropar

iv. We certify that the equipment being/quoted is the latest model and that spares for the equipment will be available for a period of at least 10 years and we also guarantee that we will keep the organization informed of any update of the equipment over a period of 10 years.

v. We guarantee that in case we fail to carry out the maintenance within the stipulated period, IIT Ropar reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs/maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of Performance Bank Guarantee, the same shall be recoverable from us with/without interest in accordance with the circumstances.

vi. We shall try to repair the equipment at IIT Ropar premises itself. However, the equipment will be taken to our site on our own expenses in case it is not possible to repair the same at IIT Ropar. We shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till the equipment is rehabilitated to the IIT Ropar after repair Any loss of equipment or its accessories under its charge on account of theft, fire or any other reasons shall be at our sole risk and responsibility which will be compensated to IIT Ropar for such losses at the FOB/CIF value for the damaged/lost equipment/part, including accessories.

vii. We undertake to perform calibration after every major repair/breakdown/taking the equipment for repair out of IIT Ropar premises.

viii. In case of extended warrantee, we undertake to carry out annual calibration of the equipment.

ix. We guarantee that we will supply spare parts if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.

x. We guarantee to the effect that before going out of production of spare parts, we will give adequate advance notice to you so that you may undertake to procure the balance of the life time requirements of spare parts.

xi. We guarantee the entire unit against defects of manufacture, workmanship and poor quality of components.

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Annexure-L

TERMS AND CONDITIONS OF THE SERVICE CONTRACT (IF REQUIRED)

1. During the service contract period, the firm shall provide at least 3 preventive maintenance visits per year and attended to all emergent and break-down calls.

2. The service contract charges must be quoted separately for each year strictly as under and quoting of rates in ambiguous terms or in percentage terms etc. shall render the tender liable to rejection :

3. Year-wise rates should be quoted in the BOQ.

4. The service contract charges should be quoted only for services and travel cost etc. and should not include the cost of any replacement parts/components which shall be arranged by the IIT ROPAR at its own cost.

5. In each block of 365 days during the entire service contract period the firm will be responsible to maintain the equipment in good working condition for a period 350 days (i.e 96% uptime). The time taken by the IIT ROPAR in providing to the firm the spare parts shall not count towards the down time. All the complaints will be attended by the firm within 2 working days of the dispatch of the complaint to their office. In case there is delay of more than 2 working days in attending to a complaint then the number of days in excess of the permissible response time shall be counted in the downtime. In case total downtime exceeds the permissible downtime a fine equivalent to double the service contract charges shall be recovered from the firm on per day basis.

6. The right to accept the reason(s) for delay and consider reduction or waive off the penalty for the same shall be at the sole discretion of The Registrar, IIT Ropar.

7. We undertake to carry out annual calibration of the equipment.

8. We undertake to perform calibration after every major repair/breakdown/taking the equipment for repair out of IIT Ropar premises.

9. The replaced parts shall remain the property of the IIT Ropar.

10. The firm shall try to repair the equipment at IIT Ropar itself. However, the equipment may be taken to their site, on their own expenses if in case it is not possible to repair the same at IIT Ropar. The firm shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till this is handed over the purchaser after repair. Any loss of equipment or its accessories on account of theft, fire or any such reasons shall be the sole risk and responsibility of the firm who will compensate the IIT Ropar for such losses at FOB value of the damaged/lost equipment/part including accessories.

11. During the service contract period the parts/components that may be needing replacement shall made available by the IIT Ropar at their own expenses and all import formalities, payment of customs duty etc., shall be complied with/borne by the IIT Ropar.

12. All service contract charges will be invoiced twice in each year. The payment of the invoice will be made afterwards.

13. No price revisions will be accepted by the IIT Ropar during the entire tenure of the service contract agreement.

14. AMC contains both hardware and software troubleshooting.

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Annexure-M

Bid Security Declaration Form

(Company Letterhead signed and stamped by the authorized signatory)

Tender No. _____ Date: _____

To,
The Registrar
IIT Ropar, Rupnagar
Punjab - 14001

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)

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Bid Submission

Online Bid Submission:

Technical Bid

(Following documents to be provided as single PDF file)

Sl. No.	Document	Content	File Types
1	Technical	Documents supporting Technical Specifications as per Annexure A	.pdf
2		Technical Compliance Sheet as per Annexure B	.pdf
3		Manufacturer's Authorization Certificate as per Annexure C	.pdf
4		Non-blacklisting Certificate as per Annexure D	.pdf
5		User List as per Annexure E	.pdf
6		Bank Details as per Annexure F	.pdf
6		Self Declaration as per Annexure G	.pdf
7		Bordering Country Declaration as per Annexure H	.pdf
7		Local Content Declaration as per Annexure I	.pdf
8		Country of Origin Declaration as per Annexure J	.pdf
8		Warranty Certificate as per Annexure K	.pdf
9		AMC Certificate as per Annexure L	.pdf
9		If eligible for EMD exemption, Bid Security Declaration as per Annexure M	.pdf
10		Any other documents in support of the abovesaid	.pdf
Financial Bid			
1	Financial	Price bid should be submitted in given pricebid.xls format. (Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and anything asked as 'Optional' in the specs is not to be included for overall comparison.) Bids for optional items are to be submitted in 'sheet2_Quote for optional items'	.xls