



क्रय अनुभाग
वन अनुसंधान संस्थान
(भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद)
देहरादून-२४८००६, उत्तराखण्ड
GSTIN 05AAAAI1708G2Z6
PAN NO. AAAAI1708G

Purchase Section
Forest Research Institute,
(Indian Council of Forestry Research and Education)
Dehradun-248006, UTTARAKHAND
Phone: 0135-2224205
<http://fri.icfre.gov.in/tender/>
Email: po_fri@icfre.org



Short Term Tender Notice (E-Publishing mode)
अल्प समय निविदा सूचना / Tender Document

Ref. No. X-74/POFRI/(TME)RB/AICRP/2021-22, Tender ID: 2022_ICFRE_650826_1

Date: 11/03/2022

Physical Bids (Offline mode) under one bid system (Techno-Commercial) are invited from the reputed manufacturer /authorized supplier/dealer for the following work. The bids complete in all respect must reach by By-post/By-hand/By-Courier etc., to the Purchase Officer, Purchase Section, Forest Research Institute, P.O. New Forest, Dehradun-248006, Uttarakhand, India on or before:

Bid Submission End Date	21-03-2022	Time	10:30 AM
--------------------------------	-------------------	-------------	-----------------

वस्तु की तकनीकी विशिष्टताये / Technical Specification of work:

S. No.	Name of work /Job	Quantity	EMD (Rs.)	Tender Fee (Rs.)
1.	Supply, Fabrication, Testing & Commissioning of Four Point Bending Testing Machine by Upgrading Existing Testing setup (as per specification at Annexure-VII)	As Per Annexure VII	12,000/-	NIL

(For Detailed Technical Specification Please refer Annexure-VII)

Technical Clarifications	Sh. Rajesh Bhandari, Scientist-F	Forest Products Division, (TME) Forest Research Institute, Dehradun, Uttarakhand	Ph: 0135-222-4395, Mob. No. 9837427994 Email: bhandarir@icfre.org
---------------------------------	---	---	---

Critical Date Sheet

S. No.	Particulars	Date	Time	Location
1.	Published Date	11.03.2022	3.45 PM	FRI Website: http://fri.icfre.gov.in/tender/ and CPP portal: https://www.eprocure.gov.in/epublish/app
2.	Bid Document Download Start Date	11.03.2022	04:00 PM	At CPPP Portal and FRI website as above
3.	Bid Submission Start Date	11.03.2022	05:00 PM	At Purchase Section, FRI Dehradun
4.	Seek Clarifications Start Date	11.03.2022	05:00 PM	Through Phone/Email
5.	Seek Clarification End Date	20.03.2022	05:00 PM	Through Phone/Email
6.	Bid Submission End Date	21.03.2022	10:30 AM	At Purchase Section, FRI Main Building
7.	Bid Opening Date	21.03.2022	11:30 AM	At Purchase Section, FRI Main Building

Sd/-
[PURSHCASE OFFICER]

CHECK LIST

(Eligibility Criteria for Bidders)

Bidders to indicate whether the following documents are enclosed by striking out the non-relevant option.

Envelope – 1 (Technical Bid) (Scanned copy of following documents to be provided with BID)			
S. No.	Content	Enclosed (Yes/No)/N.A.	Page No.
Mandatory Requirement			
1.	EMD OR Self attested copy of Exemption certificate		
2.	AUTHORIZATION certificate issued by the OEM, (if applicable.)		
3.	Self attested copy of GST certificate as applicable		
4.	Self attested copy of PAN CARD as applicable		
5.	Self attested copy of affidavit of PARTNERSHIP DEED if applicable.		
6.	BIDDER'S PROFILE/INFORMATION FORM: Annexure -II		
7.	*COMPLIANCE SHEET with any deviation: Annexure- III		
8.	Tender Acceptance Letter : Annexure- IV		
Desirable Requirement			
9.	Copy of the previous two supply /work orders of the similar work done in last 3 years in any Central Govt./State/Govt./PSU/ CSIR/ICAR/ ICMR etc. enclosed for reasonability of rates: Annexure-V		

1. Checklist as per above Annexure-I, must be filled along with page numbers of tender document.
2. Above checklist (annexure-1) must be kept in the front part (first page) of tender document.

Note: - In Failing of above, bid shall be summarily rejected & no further correspondence in this regard will be entertained.

Signature:
Name:
Designation:
Seal of the Firm/Agency

CHAPTER-1: INSTRUCTION TO BIDDERS

1.1 All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents.

1.2 Checklist as per Annexure-I, must be filled along with page numbers of tender document failing which bid is liable to be rejected and no further correspondence in this regard will be entertained.

1.3 Duly filled Annexure-1 must be placed in the front part of tender document.

1.4 The Tender should be enclosed with proper certifications like Agency Certification, Authorization certificate and /or Proprietary Certificate, as the case may be, in support of your offer.

1.5 Work means: "complete scope of work as per annexure- VII".

1.6 बोली का जमा किया जाना / Submission of Bids:

- (i) The bids should be submitted with Annexure-I, II, III, IV, V and VI with Supporting / Required documents in one single duly sealed envelope labeled on the left hand top corner of their envelope mentioning followings:

Ref. No. X-74/POFRI/(TME)RB/AICRP/2021-22, Tender ID: 2022_ICFRE_650826_1

Bid Submission End Date/Time:	21-03-2022	by	10:30 AM
--------------------------------------	-------------------	-----------	-----------------

Name (in full) and complete address of the firm should be mentioned on left hand bottom corner of the covering envelop.

- (ii) The bids should be printed on official pad preferably with GST Number of the firm.
- (iii) The quotations should bear full details and where possible may be duly supported with catalogues, pamphlets, literature, samples of the item/items as the case may be for comparing the quality and rates of the item(s)/work.
- (iv) Quotation/Bids received after the closing date and time shall not be considered.
- (v) The transportation cost, insurance charge etc., if any, Percentage/ rate of GST or all other taxes and duties should be clearly mentioned.
- (vi) **The bids / rates / tenders should remain valid for a minimum period of 90 days from the date of opening.**
- (vii) There should not be any over-writing or cutting on rates quoted. However, all cutting/corrections must be duly authenticated else the offer will be rejected.
- (viii) The rates shall not be subject to escalation of any nature.
- (ix) The rates quoted should be applicable to educational institutions and any cost advantage received in lieu thereof should be passed on the Institution.
- (x) **While quoting, the firm shall give an undertaking regarding Tender Acceptance Letter as per Annexure-IV.**
- (xi) The quotations should be given for the items in the same order & specification as in the enquiry letter/tender document.
- (xii) Agreements/Purchase order/Completion certificates if any for similar works in other institutes, the details of such supplies for the preceding three years should be given together with the prices eventually or finally paid.
- (xiii) **Duly filled checklist as per Annexure-I should be submitted along with tender.**

1.7 निविदा शुल्क/ Tender Fee एवं/and अग्रिम धन राशि / Earnest Money Deposit (EMD)

The Technical Bid should accompany an EMD in the form of FDR / Bank Guarantee / Demand Draft only of the value mentioned at the first page of this tender document only , issued from any of the Commercial Banks of India drawn in favour of "Director, Forest Research Institute, Dehradun" valid 90 days beyond the validity period of bid. **The Bidder have to fill up EMD details online as per quoted items and send the hard copy of payment to the Purchase Section FRI, on or before the Bid Opening date and time as mentioned in Critical date sheet.**

The qualification in Technical bid will be subject to the receipt and acceptance of EMD within schedule date and time as mentioned in the NIT. FRI Dehradun shall not be responsible for any delay in receipt of EMD. In case the EMD is not received within the aforesaid period, the bid will be outrightly rejected.

Original EMD should be submitted in a Separate Sealed Cover super-scribed as EMD for Tender no. & Item Name and the same to be addressed to: Purchase Section, FRI Dehradun-248006.No interest shall be claimed by the bidder on the EMD.

The Earnest Money to be forfeited, if wrong information is given in the tender to influence the tender cost or if bidder wants to withdraw his bid without any reliable reason.

The earnest money shall be refunded to all the unsuccessful firms, without any interest after finalization of the contract. EMD shall be refunded to the successful firm on receipt of PBG/Security Deposit however Earnest Money may also be forfeited **if after the award of the contract firm fail to execute the contract.** No interest is payable on the EMD to either the successful firms or the unsuccessful firms.

Exemption:-

Exemption on submission of Tender Fee/EMD will be given against valid MSME/NSIC/KVIC certificate under valid category and within the validating period of the certificate.

Exemption on submission of Tender Fee/EMD will be given against valid MSME/NSIC/KVIC/Recognition certificate from Department for Promotion of Industry & Internal Trade [DPIIT] under valid category and within the validating period of the certificate.

Note:-

Bidders claiming exemption of EMD as above are however cautioned that if they withdraw or modify their Bids during the period of validity, or if after the award of the contract if they fail to execute the contract, or to submit a performance security before the deadline given, they will be suspended for the period of 24 months from being eligible to submit Bids for tenders with FRI/ICFRE.

1.8 निष्पादन बैंक प्रत्याभूति/Performance Bank Guarantee (PBG)

1. 5% of the cost price in the form of Bank Guarantee or FDR pledged in favour of “Director, Forest Research Institute, Dehradun” is required to be submitted by the provisionally successful bidder which should remain valid for one year beyond the approximate date of successful completion of work.
2. The format of the PBG is available at the institute’s website (fri.icfre.gov.in/downloads). No interest shall be claimed by the bidder on the PBG submitted. The Bank Guarantee may be forfeited (even after completion of work) after verification from the concerned Consignee/HOD, in case of improper work done by the bidder/firm or if any stage, it is found out that the quality of work is not satisfactory. Bank Guarantee will only be accepted in the form of FDR/Bank Guarantee. **Bank Guarantee in the form of demand draft will not be accepted.**
3. **Please note that Work /supply order shall be issued to eligible firm only after submission of PBG by the firm within the given period.** Failure to comply with the same shall result to Bid being cancelled and the EMD deposited with respect to the stated tender will be forfeited. Further, submission of Performance Bank Guarantee" does not entail any right to get the order, unless all the other Tender conditions are satisfied with due verification.

1.9 बोलियों का खोला जाना/Opening of Bids:

- 1) The Bids will be opened as given below:

Bid Submission Opening Date/Time:	21-03-2022	11:30 AM	Venue: Purchase Section, Main Building, FRI Dehradun
--	-------------------	-----------------	---

Representatives of the firms (s) may be present at the time of opening the technical bid if they so desire at above schedule (No information shall be given to the late arrivals regarding the bids).

CHAPTER-2: CONDITIONS OF CONTRACT

2.1 कीमत / Price

- (i) The price of the job/work must be as per the BoQ.
- (ii) The price quoted shall be considered firm and no price escalation will be permitted. The price criteria should be on F.O.R., FRI Dehradun. Govt. levies like GST, if any, shall be paid at actual rates applicable on the date of final completion of work. The rates should be quoted accordingly giving the basic price, GST, if any.
- (iii) The price mentioned in Financial Bid must be inclusive of transportation, insurance, loading/unloading, commissioning, and any other incidental/local service, work required for completion of work at desired place as decided by FRI Dehradun.

- (iv) The institute will not be responsible in case of the bidders failing to include charges towards insurance & transportation, installation, commissioning (if any). **The price mentioned in the financial bid will be final and the bidder has to comply with that, if awarded the tender.**

2.2 कार्य अनुबन्ध / Award of Contract:

The final selection of the bidder for the award of the contract will be made on the basis of the evaluation of techno-commercial proposal submitted by the prospective qualified bidders. Decision of FRI Dehradun shall be final & binding for all the bidders & no further correspondence in this regard will be entertained.

2.3 पूर्व आपूर्ति निरीक्षण/ Pre-supply Inspection:

Authorized representative of the Institute / Committee constituted for the purpose shall make the inspection before final completion of the work at the site. Payment shall only be released after work certified by the committee.

2.4 वस्तु / कार्य की आपूर्ति / Supply of Item/works:

The whole work/supply as per the order shall have to be completed within the time mentioned in the order failing which the FRI Dehradun shall have the right to accept or reject the work.

2.5 क्षतिपूर्ति / Indemnity

The vendor shall indemnify, protect and save FRI Dehradun against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipments supplied by them.

2.6 भाड़ा व बीमा / Freight & Insurance

The items to be supplied (if any, required for the work) will be insured by the vendor against all risks of Loss or damage from the date of shipment till such time it is delivered at FRI, DEHRADUN site.

2.7 भुगतान की शर्तें / Payment Terms:

- (i) **No advance payments are allowed under any circumstances.**
- (ii) **Payment in INR after completion of work:**
 - a) 100% payment will be made after completion of work duly certified by the HOD/committee constituted for the purpose.

2.8 देड/ Penalty for delayed Services/LD Charges:

A penalty of 0.5% of the total order value per week shall be levied for the delay in executing the work/supplying the items subject to a maximum of 10% of the total order value. In case of the non completion of work after the acceptance of the work/supply order, EMD will be forfeited by the Institute and Firm shall be suspended for the period of 24 months from being eligible to submit Bids for tenders with FRI/ICFRE.

2.9 अप्रत्याशित घटना/ Force Majeure:

For the purpose of and within the scope of contract by way of indication and not of limitation, the term "Force Mejeure" shall mean acts of nature, strikes, Lockouts, or other industrial disturbances, act of public/enemy, wars, blockades, insurrection, riots, epidemics, landslides, earthquakes, storms lightening, flood, washouts, civil disturbances, explosion and any other similar even not within the control of either party on which by exercise of due care and diligence neither party is able to prevent of overcome.

2.10 मध्यस्थता/Arbitration:

In the event of any difference or dispute arising out this work, all effort shall be made by both the parties to settle the same amicably. Failing an amicable settlement, the dispute shall be finally settled through arbitration conducted under the Arbitration and Conciliation Act 1996, by arbitrators appointed in accordance with the said Act. The arbitration shall give reasoned and speaking award. All disputes are subject to Dehradun jurisdiction only.

2.11 बोली अस्वीकृती के लिए मानदंड/ Criteria for bid rejection:

- (i) If not received on or before due date and time.
- (ii) If the pages of Tender Document are not sequentially numbered and signed.
- (iii) If documents as per Annexure-I are not attached.
- (iv) If technical bid found without the required undertaking (Annexure-IV).
- (v) If it found at a later date that any information given in the bids is incorrect/false then the bid is liable to be disqualified/rejected.
- (vi) Canvassing in any form will result in disqualification.
- (vii) If "extra, as actual" etc. are mentioned against any of the price components in the bid, then the bid will be rejected.
- (viii) **If it is found that a bidder has submitted two/multiple bids for the same item/equipment, both/all the bids will be out rightly rejected.**
- (ix) If the firm quotes 'NIL' charges/ consideration, the bid shall be treated as unresponsive and will not be considered.

2.12 सत्यनिष्ठा संहिता /Code of Integrity

False declarations will be in breach of the 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 upto 2 years as per rule 151 (iii) of the General Financial Rules along-with such other actions as may be permissible under law.

2.14 Fall Clause:

The Bidder undertakes that it has not supplied/is not supplying similar product/systems or subsystems OR providing similar services at a price/charge lower than that offered in the present bid in respect of any other ministry/department of the government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the bidder to any of the ministry/department of the government of India or a PSU at a lower price, then the very price with due allowance for elapsed time will be applicable to the present case and the difference in the cost would be refunded by the bidder to FRI Dehradun, if the contract has already been concluded.

CHAPTER-3: SCHEDULES OF REQUIREMENTS

3.1 टिप्पणी / Note:

- (i) **Techno-Commercial Bid in form of Annexure-I, II, III, IV, V & VI have to be submitted in single sealed envelope.**
- (ii) Please note that the firm must submit the **separate compliance Statement** for all the allied work quoting in Annexure-III in respect of all the specifications with the supporting printed catalogue/leaflet/Brochure of the quoted items with **highlighting their offered specifications.**
- (iii) It may also be noted that the tender bids received after the stipulated date & time or found incomplete and tender bids containing false/incorrect information shall be summarily rejected. The Institute shall not entertain any communication in this regard, whatsoever.
- (iv) The firm is required to give its Bank Account details with IFSC for the purpose of making e-payment.
- (v) The Forest Research Institute (FRI) Dehradun reserves the right to reject any quotation/bid wholly or partly without assigning any reason.
- (vi) The quantity shown against the item is approximate and may vary as per demand of the Institute at the time placing order.
- (vii) The decision of the Institute in all matters relating to eligibility, acceptance, rejection of the bid will be final and binding on the applicants.
- (viii) **If the due date happens to be a holiday, then the TENDER FEE and EMD will be accepted till 3.00 PM on next working day followed by the holiday.**
- (ix) If an agent submits bid on behalf of the Principal/OEM, the same agent can not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- (x) **Indian Agent should submit the certificate from the Foreign Principal that they are the Authorized & Registered Indian Agent.**
- (xi) The quantity shown in the tender can be increased or decreased to any extent depending upon the actual requirement. Any corrigendum/addendum/errata in respect of the Tender Notice/ Enquiry letter shall be made

available at our Institute website <http://fri.icfre.gov.in/tender/>. Hence prospective bidders are advised to visit the Institute website regularly.

- (xii) Any corrigendum/addendum/errata in respect of the Tender Notice/ Enquiry letter shall be made available CPP Portal (<https://eprocure.gov.in/epublish/app> and <http://fri.icfre.gov.in/tender/>). Hence prospective bidders are advised to visit the CPP Portal (<https://eprocure.gov.in/epublish/app>) and <http://fri.icfre.gov.in/tender/> regularly.
- (xiii) **Bidders shall be responsible for the correctness of the information provided in the enquiry letter/tender document. If it is found at a later date that any information given in the bid is incorrect/false then the bid is liable to be disqualified/rejected.**
- (xiv) Bidders shall be responsible for the correctness of the information provided in the enquiry letter/tender document. If it is found at a later date that any information given in the bid is incorrect/false then the bid is liable to be disqualified/rejected.
- (xv) Institute will not be responsible for non-receipt of bid(s) within the stipulated date due to any postal delay or delay for any other reason in transit.
- (xvi) Before submission of bids, bidders should read the complete enquiry letter/tender document carefully and ensure that the bidders fulfill the eligibility criteria.
- (xvii) In case the item /product/work is under rate contract with DGS&D or GeM, then bidder should certify that the rate quoted is not over and above (higher side) the rates under RC with the DGS&D or GeM.
- (xviii) In case calculation mistakes are found in the financial bid, then calculation shall be made by the Institute on the basis of rate per unit quoted by the bidders will be processed further.
- (xix) The Institute reserves the right to rectify any discrepancy of this advertisement, if found later on. In case of any inadvertent mistake in the process which may be detected at any stage even after the issue of purchase order, the Institute reserves the right to modify/withdraw/cancel any communication made to the bidder.
- (xx) The vendor/sellers will have to arrange for all the equipment & tools required for work & maintenance etc.

Chapter-4:	Specification and allied Technical details	Please See Annexure-I, II, III, IV, V & VII
Chapter-5:	Financial/Price Schedule (to be utilized by the bidders for quoting their prices)	Please See Annexure- VI
Chapter 6:	Contract Form	Purchase Order is used as Contract Form

**PURCHASE OFFICER,
Forest Research Institute, Dehradun**

BIDDER PROFILE/INFORMATION FORM

(To be given on Company Letter Head)

Company Name :
Registration Number :
Registered Address :
Name of Partners /Directors :
:
City :
Postal Code :
Company's Establishment Year :
Company's Nature of Business :
Company's Legal Status :
(tick on appropriate option) 1) Limited Company
2) Undertaking
3) Joint Venture
4) Partnership
5) Others

Company Category :
(tick on appropriate option) 1) Micro Unit as per MSME
2) Small Unit as per MSME
3) Medium Unit as per MSME
4) Ancillary Unit
5) SSI
6) Others

CONTACT DETAILS

Contact Name :
Designation :
Email Id :
Phone No :
Mobile No :

BANK DETAILS

Name of Beneficiary :
A/c. No. CC/CD/SB/OD:
Name of Bank :
IFSC NO. (Bank) :
Branch Address:
Branch Code:
Other Details

Vendor's PAN No.
Vendor's CST No/LST No/WCT
No/TIN No:

Signature:
Name:
Designation:
Seal of the Firm/Agency

COMPLIANCE STATEMENT OF SPECIFICATIONS

(To be given on Company Letter Head)

विस्तृत विवरण अनुपालन रिपोर्ट के साथ प्रस्तुत किया जाना है (अपने आधिकारिक लेटरहेड पर विक्रेता/ फर्म द्वारा प्रस्तुत करने के लिए)

Detailed specification cum compliance report to be submitted with the Technical Bid (to be submitted by the vender/firm on its official letter head)

Name of the Item(s)/Work-.....

Manufacturer/Authorized Distributer /Dealer/Supplier/firm-.....

TECHNICAL SPECIFICATIONS:

(For Detailed Technical Specification Please refer Annexure-VII)

S. No.	Required work Specifications/ as per Tender	Offered specification of work offered by the bidder	Compliance (Yes/No)	Deviation, If any, in unambiguous terms	Whether highlighted in technical leaflet/literature
1.					
2.					

I have also enclosed all relevant documents in support of my claims (as above) in the following pages.

Signature:
Name:
Designation:
Seal of the Organisation

- Note: (i) Manufacturer/Authorized Distributer/Dealer/Supplier valid certificate must be enclosed.
(ii) Please enclose the Leaflet/photos etc. of the quoted work done previously.

उपक्रम/UNDERTAKING
TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,
Director
Forest Research Institute
Dehradun-248006

Sub: Acceptance of Terms & Conditions of Tender.

Ref. No. X-74/POFRI/(TME)RB/AICRP/2021-22, Tender ID: 2022_ICFRE_650826_1

Agreement/Contract Form

Dear Sir,

- (i) I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
- (ii) The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter
- (iii) I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
- (iv) **I / We do hereby declare that our Firm has not been blacklisted/ debarred / banned by any Govt. Department/Public sector undertaking.**
- (v) I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.
- (vi) It is certified that the rate quoted is not over and above (higher side) the rates under RC with the DGS&D or GeM.
- (vii) I / We hereby unconditionally accept that the quality and specifications of work shall be as per the demand of your institute.

Signature:
Name:
Designation:
Seal of the Firm/Agency

PREVIOUS WORK ORDERS FORMAT

Name of the Firm:

Order placed by {Full address of Purchaser]	Order No., Date and Amount (Rs.)	Name of the ordered work	Date of completion of delivery as per contract	Has the work done satisfactorily?	Contact Person along with Telephone no., Fax no. and e-mail address

Signature and Seal of the Manufacturer/ bidder/firm

Place:

Date:

FINANCIAL/PRICE BID

(To be given on Company Letter Head)

Ref. No. X-74/POFRI/(TME)RB/AICRP/2021-22, Tender ID: 2022_ICFRE_650826_1

Dated: 11/03/2022

Rates:						
Name of WORK/JOB	Qty.	Unit Rate (Rs.)	Amount (Rs.)	*GST	Any Other Charges	TOTAL (Rs.)
Supply, Fabrication, Testing & Commissioning of Four Point Bending Testing Machine by Upgrading Existing Testing setup. as per specification at Annexure-VII						
Total Rates						

- 1) Price of the work should be clearly mentioned.
- 2) **Please note that L1 price shall be decided on the basis of total cost of work.**
- 3) **RATES:** The rates quoted by the bidders, shall be firm and inclusive of all taxes (including GST, transport etc.,) and all charges for packing forwarding, insurance, freight, delivery and unloading and all the incidental work/service required to execute the above work at FRI Dehradun, Uttarakhand. Rates to be quoted as per the schedule given in Annexure-VI

Term & Conditions:

Prices (if quoted in Rs.): FOR FRI, DEHRADUN

1. **Validity of the bid:** **90 days**
2. **Delivery/work completion period:****(To be provided by the bidder).**
3. **Rejection:** Bids if found not as per the required specification would be rejected.
Bids not found as per the terms and conditions mentioned in the bid document, would be rejected.
4. **Penalty Clause:** As per clause-2.9 of enquiry letter.
In case of the non-supply of the item/work after the acceptance of the work/supply order, EMD will be forfeited by the Institute and firm shall be debarred from tendering for 24 months in FRI/ICFRE.
5. **PBG:** 5% of the price in the form of Bank Guarantee or FDR pledged in favor of "Director, Forest Research Institute, Dehradun" is required from the provisionally successful bidder which should remain valid for one year beyond the approximate date of successful completion of work. .

It is certified that the rate quoted is not over and above (higher side) the rates under RC with DGS&D or GeM.

Signature:

Name:

Designation:

Seal of the firm/Organisation

SPECIFICATIONS

Name of Item: Supply, Fabrication, Testing & Commissioning of Four Point Bending Testing Machine by Upgrading Existing Testing setup.

Specifications and requirements:

Reference Standard:	IS: 6874 (2008) and/or ISO:22157 (2019)
Test Type:	Four point static bending strength test (as per concerned para of above mentioned IS/ISO code.
Maximum bamboo support:	Length: 12000 mm (40 ft). Outer diameter of bamboo: 300 mm
Clear Base support Span (adjustable):	2700 to 9000 mm (9 to 30 ft) Support rail, I-beam type, to be fixed on the existing ground slot. Supply and fixing is included in the price of this proposal. (Base saddle supports to be swivel type. Facility to lock base supports to prevent their movement during testing.)
Upper Loading point span (adjustable):	900 mm (3ft) to 3000 mm (10ft) (Upper loading to be through adjustable saddles)
Loading mechanism:	Hydraulic actuator with position feedback, fixing Accessories, Fitted with load cell, displacement transducer, swivel base fitted on the actuator rod, supplied with motorized hydraulic power unit, hose pipe, proportional direction control valve for electronic control of actuator motion and test speed.
Maximum Force Rating:	20 kN (2 ton)
Force measuring resolution:	0.01kN (10 kgf)
Maximum Testing Stroke:	1200 mm
Deflection Measuring Resolution:	0.1 mm
Loading speed:	Upto 0.5mm/Sec (Settable before start of test)
Testing facility controller:	Fitted inside a floor mounting control desk with integrated computer, laser printer (hp/canon), data acquisition system, Computer-Latop (Hp/Dell), actuator controller, signal conditioners for load and deflection, control switch gear, buttons, indicating lamps, cordless keypad and mouse, pre-loaded application software
Warranty:	Minimum One year.
Enclosures:	Photos and 2D sketch of Existing Testing Setup

Minor alteration/correction in specifications is permitted during installation/commissioning of the machine after taking consent from the concerned indenter of Timber Mechanics & Engineering Discipline.

Existing Testing Setup



2D-Sketch of Existing Testing Setup

