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

Notice Inviting Tender (E-Procurement mode)
निविदा दस्तावेज/ Tender Document

Ref. No X-3/POFRI/GTI/AK/EAP/2022-23, Tender ID: 2022_ICFRE_696079_1 **Date: 21/06/2022**

Bids under two bid systems (Technical and Commercial) are invited online at CPP Portal (https://eprocure.gov.in/eprocure/app) from the reputed manufacturer/authorized supplier/dealer for the following items. **Manual bids will not be accepted.**

वस्तु की तकनीकी विशिष्टताये / Technical Specification of item:

S. No.	Name of item	Quantity	Warranty	EMD (Rs.)	Tender Fee (Rs.)
1.	**High Performance Liquid Chromatography (HPLC)**	**01 No.**	**Five Years Warranty, Including AMC**	**1,25,000/-**	**NIL**
(For Detailed Technical Specification Please refer Annexure-VII)					
नोट-1 : कृपया वस्तु का मूल्य एवं कर अलग-अलग दर्शाए/Please quote the rate & Taxes of the item separately					
Note-2: E-way bill is to be issued by the Venders/Transporter					
Note-3: The HSN / SAC Code of the item must be mentioned.					

Technical/Other Clarifications	**Dr. Ashok Kumar**	**Genetics & Tree Improvement Division , FRI Dehradun**	**Ph: 0135-222-4379, 9411173675 Email: ashok@icfre.org,**
		Purchase Office, FRI Dehradun	**Ph: 0135-222-4205, Email: po_fri@icfre.org**

Critical Date Sheet

S. No.	Particulars	Date	Time	Location
1.	Published Date	21.06.2022	03:00 PM	FRI Website: http://fri.icfre.gov.in/tender/ and CPP portal: https://eprocure.gov.in/eprocure/app
2.	Bid Document Download Start Date	21.06.2022	03:30 PM	At CPP Portal as above
3.	Due date for Pre-Bid Meeting	27.06.2022	03:00 PM	At Purchase Section, FRI Main Building, Dehradun
4.	Seek Clarifications Start Date	21.06.2022	06:00 PM	Through Phone/Email as mentioned above
5.	Bid Submission Start Date	30.06.2022	05:00 PM	At CPP Portal as above
6.	Seek Clarification End Date	12.07.2022	05:00 PM	Through Phone/Email as mentioned above
7.	Bid Submission End Date	13.07.2022	03:00 PM	At CPP Portal as above
8.	Bid Opening Date	14.07.2022	03:00 PM	CPP portal / At Purchase Section, FRI Main Building

The tender document can be downloaded from http://eprocure.gov.in/eprocure/app and be submitted only through the same website.

[PURCHASE OFFICER]

CHECK LIST

(Eligibility Criteria for Bidders)

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

Envelope – 1 (Technical Bid) (Scanned copy of following documents to be uploaded on CPP Portal)			
S. No.	**Content**	Uploaded (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** as applicable.		
6.	**BIDDER'S PROFILE/INFORMATION FORM:** Annexure -II		
7.	**Detailed COMPLIANCE SHEET**: Annexure- III		
8.	**Tender Acceptance Letter** : Annexure- IV		
9.	**Copy of the audited balance sheet** of the bidder for the previous three financial years indicating the turnover in supply of the material.		
10.	**Copy of the previous two supply orders** of the similar equipment/ item of last 3 years supplied to Central Govt./State/Govt./PSU/ CSIR/ICAR/ ICMR etc. indicating the rates to be enclosed/uploaded for reasonability of rates: Annexure-V		
11.	*Printed **CATALOGUE/BROUCHER/LEAFLET** of the quoted item(s) enclosed/uploaded.		

Cover – 2 (Financial Bid) (EXCEL document to be uploaded with BID on CPP portal)

1. Sl. No. 1 to 11 and financial bid (cover-2) are Mandatory requirements without which bid will be summarily rejected.

2. <u>Checklist as per above Annexure-I, must be filled along with page numbers of tender document.</u>

3. <u>Above checklist (annexure-1) must be kept in the front part (first page) of tender document.</u>

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

Instructions for Online Bid Submission

This tender document has been published on the Central Public Procurement Portal **(URL:https://eprocure.gov.in/eprocure/app)** & Institute website **http://fri.icfre.gov.in/tender/**. 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: https://eprocure.gov.in/eprocure/app.

REGISTRATION

1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: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 user ID / password and the password of the DSC / eToken.
7. The CPP Portal also has user manual with detailed guidelines on enrollment and participation in the online bidding process. Any queries related to process of online bids or queries related to CPP Portal may be directed to the 24x7 CPP Portal Helpdesk.
   The Institute will not be responsible for any type of technical issue regarding uploading of Tender on website.

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/clarifications 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 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.

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 and upload the required bid documents one by one as indicated in the tender document.
3. Bidder should submit the Tender Fee/ EMD as specified in the tender. The hard copy should be posted/couriered given in person to the Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the same should be uploaded as part of the offer. The bidder has to select the payment option as offline to pay the Tender FEE/ EMD as applicable and enter details of the same.
4. Financial Bids can be submitted in **BOQ_XXXX.xls format** (as given in the portal), the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Priced-bid/BOQ template shall not be modified / replaced by the bidder; else the bid submitted is liable to be rejected for the tender.
5. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
6. 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.
7. 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 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 0120-4200462, 0120-4001002, 91-8826246593.

CHAPTER-1: INSTRUCTION TO BIDDERS

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

1.2 <u>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.</u>

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

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

1.5 Supply means: "Supply, Installation, Testing, and Commissioning".

1.6 बोली का जमा किया जाना / Submission of Bids:

(i) The bids should be submitted/uploaded ONLINE in two parts:

(a) The Technical Bid (Documents as per CHECK LIST Annexure – I)
(b) The Financial Bid (Online at CPP Portal in BoQ _XXXX.xls format)

(ii) The bids should be printed on official pad preferably with GST Number of the firm.
(iii) The bid 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).
(iv) Bid 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 120 days from the date of opening.
(vii) **Since this purchase being done for research purpose and ICFRE/FRI, Dehradun is registered in DSIR, New Delhi. It is therefore exempted from the payment of custom duty and GST @ 5% as per the Govt. Rules. The bidder should quote accordingly.**
(viii) 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.
(ix) The rates shall not be subject to escalation of any nature.
(x) The rates quoted should be applicable to educational institutions and any cost advantage received in lieu thereof should be passed on the Institution.
(xi) **While quoting, the firm shall give an undertaking regarding Tender Acceptance Letter as per Annexure-IV.**

(xii) The quotations should be given for the items in the same order & specification as in the enquiry letter/tender document.

(xiii) 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.

(xiv) **Duly filled checklist as per Annexure-I should be submitted along with tender.**

(xv) **Firm from India quoting on behalf of their foreign principal**

(a) Copy of agreement, with their foreign principal with the precise relationship between them, their mutual interest and nature of services which would be available from bidding firm from India, shall be submitted along with their tender.

(b) Price to be quoted in Indian Currency only.

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

(i) The Technical Bid should accompany **non-refundable Tender Fee in form of Demand Draft only** and 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 for the equipment(s) bidding by the bidder as the case may be,** 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.**

(ii) 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.

(iii) 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.

(iv) EMD shall be refunded to the successful firm on receipt of PBG/Security Deposit in due course subjected to fulfillment of terms and conditions of the tender. Earnest Money shall also be forfeited **if after the award of the contract, firm fails to execute the contract.** No interest is payable on the EMD to either the successful firms or the unsuccessful firms.

(v) **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. 10% 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 at least during the **warranty period five years plus sixty days** (warranty period 5 years + 60 days).
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 in case of improper services provided by the bidder/firm after verification from the concerned Consignee/HOD. 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 supply/Work 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 Technical Bids will be opened online at CPPP Portal (https://eprocure.gov.in/eprocure/app)-Please refer Critical Date Sheet.
2) **The Financial bids of only the Technically Qualified bidders will be opened. The date and time for opening the Financial Bid will be communicated to the respective firm later by the system (CPP Portal (https://eprocure.gov.in/eprocure/app))**
3) If there are any discrepancies in price schedule and tender document please refer to the BOQ in the Central Public Procurement Portal, the BOQ item/words/conditions mentioned in BOQ prevails
4) Representatives of the firm(s) may be present at the time of opening the financial bids if they so desire.

CHAPTER-2: CONDITIONS OF CONTRACT

2.1 कीमत / Price

(i) The price of the goods 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 delivery. The rates should be quoted accordingly giving the basic price, GST, if any.
(iii) The rate of **GST applicable to FRI Dehradun is 5% and also exempted from the payment of custom duty** for the items procured for Research Purpose as per Notification No. 45/2017-Central Tax (Rates) New Delhi, 14th November, 2017 and Notification No.47/2017-Integrated Tax (Rate) New Delhi 14 November 2017. The bidder should quote accordingly. **Please note that GST Exemption shall not be applicable on AMC Charges.**
(iv) The price mentioned in Financial Bid must be inclusive of transportation, insurance, Custom Clarence Charges (if any) loading/unloading, installation, commissioning, training, warranty, AMC (if any) and any other incidental/local service required for delivering the goods for desired destination as decided by FRI Dehradun.
(v) The institute will not be responsible in case of the bidders failing to include charges towards insurance & transportation, installation, commissioning and training, warranty, AMC. **The price mentioned in the financial bid will be final and the bidder has to comply with that, if awarded the tender.**

2.2 वारंटी & ए एम सी सपोर्ट / Warranty and AMC Support

(i) The items/equipment covered by the schedule of requirement shall carry the COMPREHENSIVE warranty of five years (05 Years) from the date of Installation of the equipment in FRI Dehradun. This Warranty shall include free maintenance of the whole equipment supplied including free replacement of all parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 72 hours. The comprehensive warranty includes onsite warranty with all parts. Further seller shall provide one preventive maintenance visit in every six months during warranty period.
(ii) The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost of the part / machine, insurance, freight, custom duty or any other taxes or charges, should be borne by the seller.
(iii) The warranty on the associated software should cover providing of upgraded version/s, if any, released during the Comprehensive warranty period free of cost.
(iv) The equipment must be supported by a Service Centre in India manned by the principal vendor's technical support engineers. The support through this Centre must be available 24 hours in a day, seven days a week and 365 days a year. Also it should be possible to contact the Principal's vendor support Centre on a toll free number/web/mail.
(v) The vendor/sellers will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.

AMC terms and conditions

(vi) **The items/equipment covered by the schedule of requirement shall carry the AMC support of five years (05 Years) from the date of Installation of the equipment in FRI Dehradun.** The AMC hereunder covers corrective maintenance and free replacement of defective components in the Equipment. The AMC shall be comprehensive in nature and replacement of spares is required to be done excluding items of consumable nature.
(vii) The firm shall maintain the equipments in good working condition during the contract period and shall correct the fault and failures, repair or replace worn or defective parts of the equipments during normal working hours of the office, where the equipments is installed. Unserviceable parts shall be handed over to the Department and the same will be replaced at no extra cost with brand new parts of equivalent or superior specification.
(viii) The firm shall ensure that the full configuration of the equipment is in proper working condition, after repair and maintenance.
(ix) The fault shall be rectified within the 2 working day, as far as possible and in no case shall exceed 72 working hours, from the time of reporting of failure/defect. Failure/defect shall be rectified so as to make available a perfectly working Machine.

(x) In case the guaranteed repair/replacement time not being met, the following penalty shall be levied:
Beyond 72 working hours (from the day of receipt of complaint) , the penalty shall be 0.10 % of the total value of Equipment per day.

2.3 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.

2.4 पूर्व आपूर्ति निरीक्षण/ Pre-supply Inspection:

Authorized representative of the Institute shall make the final inspection before supply of the item at site of the firm, if required.

2.5 वस्तु की आपूर्ति / Supply of Item:

The whole supply as per 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 any quantity of items ordered. The firm will have to arrange for supply of the material/ equipment in good condition.

2.6 छतिपूर्ति / 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.

2.7 भाड़ा व इन्श्योरेन्स / Freight & Insurance

The equipment's to be supplied 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, Uttarakhand site.

2.8 भुगतान की शर्तें / Payment Terms:

(i) No advance payments are allowed under any circumstances.

(ii) Payment in INR for supply of goods:

a) Where installation is not required: 100% payment will be made after satisfactory delivery of material duly certified by the HOD. **OR**

b) Where installation is required: 100% payment will be made after satisfactory delivery and installation of the material duly certified by the HOD. **OR**

c) 100% Advance will be paid against submission of 110% Bank Guarantee of the Total Order value subjected to the approval of competent authority.

(iii) Payment in INR for AMC/CMC/Service (if applicable)

a) Quarterly/Half yearly after satisfactory completion of work/service duly certified by the H.O.D./P.I.

2.9 दंड/ Penalty for delayed Services/LD Charges:

A penalty of 0.5% of the total order value per week shall be levied for the any delay after the stipulated date mentioned in the supply order/contract order subject to a maximum of 10% of the total order value.

In case of the non-supply of the item 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.

Please note that no extension in delivery date will be given except force majeure conditions. Extension in delivery date, if any, shall be strictly subjected to deduction of LD Charges.

2.10 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 Majeure" 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.

2.11 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.

2.12 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.

2.13 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.

2.15 दरों की तर्कसंगतता /Reasonability of rates

Before placement of the order, L1 firm may be required to provide the previous supply order(s) of the same /similar equipment supplied by the firm in other institutions/govt. organizations to justify the reasonability of rates quoted by the firm.

CHAPTER-3: SCHEDULES OF REQUIREMENTS

3.1 टिप्पणी / Note:

(i) Technical Bid in form of Annexure-I, II, III, IV, V and VII (blank signed price bid) has to be uploaded on CPP portal. Financial Bid in form of Excel file BoQ_XXXX.xls has to be uploaded on CPP portal.
(ii) If the Supplier/firm is manufacturer/authorized dealer/sole distributor/of the item, the certificate to this effect should be attached/uploaded.
(iii) Please note that the firm must submit the **separate compliance Statement** for each item 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.**
(iv) 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.
(v) The firm is required to give its Bank Account details with IFSC for the purpose of making e-payment.
(vi) The Forest Research Institute (FRI) Dehradun reserves the right to reject any quotation/bid wholly or partly without assigning any reason.
(vii) The Forest Research Institute (FRI) Dehradun reserves the right to reject any quotation wholly or partly without assigning any reason.
(viii) The quantity shown against the item is approximate and may vary as per demand of the Institute at the time placing order.
(ix) The decision of the Institute in all matters relating to eligibility, acceptance, rejection of the bid will be final and binding on the applicants.
(x) Forest Research Institute (FRI) Dehradun discourages High Sea Sale Purchase. All tenders with High Sea Sale will be rejected.
(xi) The firms should clearly mention (in the financial bid) the Harmonized System of Classification (HS code) defined by the Central Custom and Excise Board (Govt. of India) for the item (s) involving import.
(xii) 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.
(xiii) 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.
(xiv) Indian Agent should submit the certificate from the Foreign Principal that they are the Authorized & Registered Indian Agent.

(xv) 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.

(xvi) Any corrigendum/addendum/errata in respect of the Tender Notice/ Enquiry letter shall be made available CPP Portal **(https://eprocure.gov.in/eprocure/app) and http://fri.icfre.gov.in/tender/**. Hence prospective bidders are advised to visit the CPP Portal (https://eprocure.gov.in/eprocure/app) and http://fri.icfre.gov.in/tender/. regularly.

(xvii) 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.

(xviii) Bidders shall be responsible for the correctness of the information provided in the enquiry letter/tender document. If it is found at q later date that any information given in the bid is incorrect/false then the bid is liable to be disqualified/rejected.

(xix) 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.

(xx) Before submission of bids, bidders should read the complete enquiry letter/tender document carefully and ensure that the bidders fulfill the eligibility criteria.

(xxi) In case the item /product is under rate contract with DGS&D or GeM, than bidder should certify that the rate quoted is not over and above (higher side) the rates under RC with the DGS&D or GeM.

(xxii) 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.

(xxiii) 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.

(xxiv) In Item Wise BoQ_XXXX.xls sheet, In column M, leave blank for the item/service not provided/quoted by you. If quoted 0 then it will be considered that the item/service will be provided free of cost.

(xxv) If there are any discrepancies in price schedule and tender document please refer to the BOQ in the Central Public Procurement Portal, the BOQ item/words/conditions mentioned in BOQ prevails.

(xxvi) Indian Council of Forestry Research & Education, Dehradun is registered with the Department of Scientific and Industrial Research (DSIR) for purposes of availing customs duty exemption in terms of Government Notification No. 51/96-Customs dated 23 July, 1996. Notfn. No. 47/2017-Integrated Tax (Rate) dated 14.11.2017 and Notfn. No. 45/2017-Central Tax (Rate) dated 14.11.2017, Notfn. No. 45/2017-Union Territory Tax (Rate) dated 14.11.2017, as amended from time to time.

Compliance of Restrictions under Rule 144 (xi) of GFR 2017:

Restrictions on procurement from a bidder of a country which shares a land border with India

I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.

II. "Bidder" (Seller / Service Provider) 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, participating in a procurement process.

III. "Bidder from a country which shares a land border with India" for the purpose of this Order means: -

a. An entity incorporated, established, or registered in such a country; or

b. A subsidiary of an entity incorporated, established, or registered in such a country; or

c. An entity substantially controlled through entities incorporated, established, or registered in such a country; or

d. An entity whose beneficial owner is situated in such a country; or

e. An Indian (or other) agent of such an entity; or

f. A natural person who is a citizen of such a country; or

g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

IV. The beneficial owner for the purpose of (iii) above will be as under:

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

a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;

b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

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, 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.

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

VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. Any false declaration and non-compliance of the above would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

Purchase Preference under 'Make in India' Policy

Under 'Make in India' policy of Government of India, Purchase Preference will be given to eligible bidders as per Public Procurement (Preference to Make in India), Order 2017 issued vide order No. P-45021/2/2017-B.E.-II dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018,29.05.2019 and 04.06.2020) ofDepartment of Industrial Policy and Promotion, Ministry of Commerce and Industry. Bidders are required to submit necessary certificates & documents as detailed in the above referred GOI Order in support of their claim to avail benefit against this order.

Note: The bidders who claim Purchase Preference under 'Make in India' Policy shall fulfil all requirements of tender document applicable for Indigenous Manufacturer.

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

Local Supplier:

'Class-I Local Supplier' means a supplier whose product offered for procurement has local content equal to or more than 50%.

'Class-II Local Supplier' means a supplier whose product offered for procurement has local content more than 20% but less than 50%.

'Non-Local Supplier' means a supplier whose product offered for procurement has local content less than or equal to 20%.

Margin of Purchase Preference: For being eligible for purchase preference under this clause, the Margin of purchase preference shall be 20% (i.e. L1 + 20% band).

Preference: Purchase Preference shall be given to 'Class-I Local Supplier' only in the manner specified here under:

A. In the procurement of Goods which are divisible in nature:

i. If L1 is from a 'Class-I local supplier', the contract for full quantity will be awarded to L1.

ii. If L1 is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1.Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on'Class-I local supplier', then such balance quantity may also be ordered on the L1 bidder.

B. In the procurement of Goods which are not divisible in nature:

i. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.

ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such local supplier subject to matching the L1 price.

iii. In case such lowest eligible 'Class-I local supplier' fails to match the L1, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the local suppliers within the margin of purchase preference matches the L1 price, then the contract may be awarded to the L1 bidder.

C. 'Class-II local supplier' will not get purchase preference.

Verification of local content:

i. The 'Class-I local supplier' / 'Class-II local supplier' at the time of biding shall be required to indicate percentage of Local Content and provide self-certification that the items offered meet the local content required for Class-I local supplier' / 'Class-II local supplier' and shall give the details of the location(s) at which the local value addition is made.
ii. False declarations will attract banning of business of the bidder or its successor(s) for a minimum period of three years along with any other penal action as may be deemed fit including rejection of the offer, forfeiture of all dues including EMD/ Security Deposit / banning of the firm
iii. A supplier who has been debarred by any procuring entity for violation of this order shall not be eligible for preference for procurement for the duration of debarment. It will be the bidder' s responsibility to provide self-certification, clearly stating that the bidder is not serving debarment from any procuring entity for the tendered item at the time of tendering.

Exemption of small purchases: Procurements where the estimated value to be procured is less than Rs 5 (Five) Lakhs shall be exempt from above.

Note: The bidders who claim Purchase Preference under 'Make in India' Policy shall fulfill all requirements of tender document applicable for Indigenous Manufacturer.

Self-Certificate for Local Content

*We [name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is equal to or more than 50% and come under 'Class-I Local Supplier' Category. As being 'Class-I Local Supplier', we are eligible for Purchase Preference under 'Make in India' Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020)

OR

*We [name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is more than 20% but less than 50% and come under 'Class-II Local Supplier' Category.

The details of the location(s) at which the local value addition made is/are as under:

1……

2……

3……
* Strike out whichever is not applicable

Date: Seal & Signature of the Bidder

Chapter-4:	**Specification and allied Technical details**	**Please See Annexure-I, II, III, IV, V & VII**
Chapter-5:	**Price Schedule (to be utilized by the bidders for quoting their prices online in .XLS format at CPPP Portal (https://eprocure.gov.in/eprocure/app**	**Please See Annexure- VI & Price Bid in BOQ_XXXX.XLS Format**
Chapter 6:	**Contract Form**	**Purchase Order is used as Contract Form**

PURCHASE OFFICER,
Forest Research Institute, Dehradun

Annexure-II

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	1) Limited Company
(tick on appropriate option)	2) Undertaking
	3) Joint Venture
	4) Partnership
	5) Others
Company Category	1) Micro Unit as per MSME
(tick on appropriate option)	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)……Make:……Model:…….

Manufacturer/Authorized Distributer /Dealer/Supplier……..

TECHNICAL SPECIFICATIONS:

(For Detailed Technical Specification, Please refer Annexure-VII)

S. No.	Required Items Specifications/ Part/ Accessories as per Tender **(Please provide point wise compliance of all the specifications)**	Offered specification of item by the bidder **(Please indicate the brand/make offered, wherever applicable)**	Compliance (Yes/No)	Deviation, If any, in unambiguous terms	Documents attached in support
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

I have also enclosed/uploaded all relevant documents as per the requirement in Annexure-VII 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/uploaded.
(ii) It is compulsory to enclose the printed Catalogue/Leaflet/Brochure etc. of the quoted items.
(iii) "Offered specification" should be filled up properly in the format provided above and should be **HIGHLIGHTED** in the enclosed/uploaded printed Catalogue/Leaflet/Brochure etc.
(iv) Separate Compliance Sheets (Annexure-III) must be attached/uploaded for different quoted Item(s)/Make/Model.

Annexure-IV

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-3/POFRI/GTI/AK/EAP/2022-23, Tender ID: 2022_ICFRE_696079_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), technical specifications etc. which form part of the contract agreement and I / we shall hereby abide 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) I /we hereby declare that all the terms and conditions regarding warranty and AMC support have read by me/us. I/we shall abide by them in totality.

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

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

PREVIOUS SUPPLY ORDERS FORMAT

Note:- Previous supply order should be of quoted model and model similar to quoted model

Name of the Firm:

Order placed by (Full address of Purchaser)	Name of the ordered equipment and quantity (Model and Make)	Order No., Date and quantity	**Amount (Rs.)**	Has the equipment been installed satisfactorily? (please attach documents)	Contact Person along with Telephone no., Fax no. and e-mail address

Signature and Seal of the Manufacturer/ bidder ……

Place:

Date:

Note : Please attach/upload self attested copy of the previous two supply orders supplied during last three years period and/or performance certificate of successful installation/commissioning of the similar equipment/item from the Central Govt./State Govt./PSU/ CSIR/ICAR/ ICMR etc.

COMMERCIAL/FINANCIAL BID

(To be uploaded online at CPP Portal in BoQ_XXXX.xls format)

Ref. No X-3/POFRI/GTI/AK/EAP/2022-23, Tender ID: 2022_ICFRE_696079_1 **Dated: 21/06/2022**

S. No.	Name of item / Specifications/ Make & Model…….	Qty.	Basic Rate (Rs.)	*GST etc. @5% (Rs.)	Other charges /Freight /custom clearance etc (Rs.)	TOTAL (Rs.)
1.01	**High Performance Liquid Chromatography (HPLC) (GST @ 5%) Specification as per Annexure-VII Make & Model…….**	**01**	**Rate per unit**			
			Total			
			Grand Total Rs.			

*FRI Dehradun is eligible for concessional GST @ 5% and Custom Duty exemption for equipments only. Therefore the bidders are requested to quote rates for equipment accordingly.

RATES: The rates quoted by the bidders, shall be firm and inclusive of all taxes (including GST, transport etc.,) and should include all charges (as applicable) for custom clearance, packing , forwarding, insurance, freight, delivery and unloading at FRI Dehradun, Uttarakhand. Rates to be quoted in INR Only as per the schedule given in BOQ.

Term & Conditions:

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

1. **Validity of bid:** ……(Minimum 120 days)
2. **Delivery period:** ……(to be adhered strictly)
3. **Warranty:** **Five years warranty inclusive AMC (refer clause 2.2)**
4. **Rejection:** Bids if found not as per the required specification and documents would be rejected. Bids not found as per the terms and conditions mentioned in the bid document, would be rejected.
5. **Penalty Clause:** As per clause 1.7 and 2.9 and other applicable clauses of tender document. In case of the non-supply of the item after the acceptance of the work/supply order, EMD will be forfeited by the Institute and firm shall be suspended from participating in tender with FRI/ICFRE for 24 months.
6. **PBG:** 10% of the total cost price in the form of Bank Guarantee or FDR pledged in favor of "Director, Forest Research Institute, Dehradun" which should remain valid during the warranty period (five years) plus sixty days. (5 year + 60 days). Please note that supply/Work order shall be issued to provisionally successful 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.
7. **Customs Details:**
   - **(i)** Forest Research Institute, Dehradun Custom House Agent (CHA) Address
     M/s Cwick (Import Consolidation), Private Limited, L-II/101, New Mahavir Nagar Extension, Outer Ring Road, New Delhi-110018,
     E-mail: info@cwickimport.com and followup@cwickimport.com
     Tel: + 91-09313996082, + 91-11-25996082, + 91-11-25992781
   - **(ii)** Details of Institute:
     Import Export Code (IEC code FRI) – 0100000011
     AD CODE:- 02900682870007
     Union Bank of India, Main Branch, Rajpur Road, Dehradun-248001

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

Signature:
Date:
Name:
Designation:
Seal of the firm/Organisation

SPECIFICATIONS

Name of Item: High Performance Liquid Chromatography (HPLC)

Technical specifications

1. Quaternary HPLC Pump: 01 No.

- Solvent delivery - Quaternary solvent delivery system
- Flow rate range: 0.000 – 5.000 ml/min or more in 0.001ml/min increments
- Effective delay volume should be ≤ 1000 µL independent of backpressure
- Flow rate accuracy ±1% of the set flow rate
- Flow rate precision ±0.075% RSD or higher precision.
- Operating pressure: 65 MPa or more
- Two or more fluidic path
- Compressibility compensation automatic and continuous
- Reservoir tray
- Ten or more prefixed gradient curves
- Composition precision: 0.15% RSD
- Leak sensor and safe leak handling
- pH range: 1 to 12.5

2. Auto-sampler Injection:

- Able to accommodate 90 vials or more, configured in carousels
- Sample injection volume should be variable between 0.1 µl to 100 µl.
- Inbuilt Injector needle wash should be integral, active and programmable
- Near zero carryover performance (Less than or equal to 0.002%).
- Injection volume setting minimum should be 0.1 µl
- Auto addition and auto dilution feature
- Injection volume accuracy must be below 1%.
- Injection precision should be less than 1% RSD.
- Injection loop : 50ul standard and spare loop up to 100ul
- Automated IQ/OQ/PQ
- Injector linearity should be > 0.999

3. Column Oven:

- Temperature-control method: Forced-air circulation
- Temperature setting range: Ambient + 5˚C to 65˚C in steps of 1˚C
- Temperature accuracy: ±1˚C
- The oven compartment should have provision for housing one or more columns of 30 cm length
- It should have option for the record of column information like number of injections and composition of last mobile phase used through column management device

4. In-built Vacuum Degasser -01 No.

- Online degassing unit.
- Number of channel: 4 Channels

5. Photodiode Array Detector: 01 No.

- Light source : D2 and/or tungsten lamp
- Wavelength range: 190 - 800 nm.
- Number of diodes; 512 or more.
- Wavelength accuracy: ± 1 nm

- Band width : 1.2 nm
- Noise level: ≤1x 10-5 AU at 254 nm.
- Drift: ≤ 1x10-3 AU/Hr at 254 nm.
- Optical/digital resolution: 1.2 nm or better
- Linearity range: < 5% at 2 AU (ASTM method).
- Peak purity and lamp optimization software for low noise performance in uv-visible range without lamp change

6. Refractive Index Detector

- Measurement range: $7.0x10^{-9}$ to $5.0x10^{-4}$ RIU
- Flow rate: 0.1 to 10.0 ml/min.
- Cell volume: minimum 10 ul
- Cell pressure: 100 psi or better for the safety of flow cell
- Linear dynamic range: <5% over +/- 5.0 x 10^{-4}RIU
- Temperature control: Internal oven: 30 - 55°C, +/-0.5°C, settable in 1°C increments
- Refractive index range: 1.00 to 1.75 RIU
- Noise: ≤ 1.5 x 10^{-9} RIU mode
- Drift: ≤ 2.0 x 10^{-7} RIU/hr

7. Chromatography Manager Software:

(Quoted Modal and make to be mentioned)

- Chromatography software to control complete HPLC system with PDA and RI detector- latest version of software should be provided with embedded oracle database
- User accounts Sets up access rights and passwords
- Full 64 bit architecture
- Audit trail: Records selected events and operations into a special file.
- Pharmacopoeia method: USP/EP/JP
- Post-run automatically displays, prints, exports and starts other programs.
- Compatibility with Windows 8/ 10 (64bit) is available PC at purchaser's site.
- GLP & GMP Compliance
- System suitability test option available (Method validation)
- PDA module option available: 3-D data analysis
- Vendor must certify that they have quoted a valid, original and licensed version of Software from the principal manufacturer and not the dump version. Failing to establish the proof will lead to rejection of bid. **(Relevant documents must be attached/uploaded)**

8. Data station (Computer):

(Quoted Modal and make to be mentioned)

- 10th generation i5 processor of 2.4 GHz or higher configuration
- 16 GB RAM or more
- 500 GB Hard disk
- DVD ROM Drive
- LAN card 1GBPS - 2 no's (Including on board)
- Windows 10 Professional
- Monitor, keyboard and Mouse with updated windows with latest security update.
- One extra LAN card should also be installed and configured in the computer.
- One 8 port 10/100 mbps network switch for each system

9. Columns:

- Analytical C18 Column-5µ- [4.6mm ID x 250 mm] – 02 Nos.
- C-8 column 5µ (4.6mmX 250mm) Qty2
- Guard column and holder should be provided for C-18 and C-8 columns (2 No. each)

10. Start up and maintenance kit: 01 Set

- The vendors needs to submit details on startup and maintenance thoroughly

11. Warranty: 5 year

12. Other requirements :

- AMC (Annual maintenance contract) and technical support must be provided for 5 years.
- Satisfactory installation and commissioning of instrument should be done by the supplier at the purchaser's site.
- Training regarding operation of the instrument should be provided by the supplier to persons at purchaser's site as and when required.
- Vendor to provide both on-site and operator training for users on the system start-up, usage, maintenance, quality control, troubleshooting.
- All the specifications quoted must match with the published literature.