

Two Bid Tender Document

**Purchase of Scientific Equipments & Miscellaneous
items for FRI**



**Forest Research Institute
P.O. New Forest
Dehradun-248006**

2016-17

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08/2/2017

Notice Inviting Tenders
(National Competitive Bidding)

Forest Research Institute
(Indian Council of Forestry Research & Education)
Post- New Forest, Dehra Dun – 248006, Uttarakhand, India

Phone: 0135-2224205; Fax: 0135-2756865
Website: <http://fri.icfre.gov.in> Email: pc@icfre.org

TENDER NO: X-91 /16-17/Purchase

1. Online bids are invited on single stage two bid systems for the purchase of Scientific equipments and miscellaneous items. Manual bids shall not be accepted.
2. Bid/Tender documents may be downloaded from FRI web site <http://fri.icfre.gov.in> (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app> as per the schedule as given in tender critical date sheet as under :-

Events	Important date/time	Venue
Published Date	08/02/2017; 5.00 PM	Newspaper/FRI and CPP portal
Bid document download	08/02/2017; 6.00 PM	Central Public Procurement Portal (CPPP)
Due date for pre-bid conference	13/02/2017; 11.00 AM	Purchase Section, Main Building, FRI
Bid submission start date	14/02/2017; 3.00 PM	CPP portal
Bid submission end date	28/02/2017; 3.00 PM	CPP portal
Opening date of technical bids	01/03/2017; 3.00PM	Purchase Section Main Building, FRI
Opening date for financial bids	It will be decided after technical evaluation	Purchase Section Main Building, FRI

CONTENT OF TENDER PAPER

THIS PAPER INCLUDES THE FOLLOWING DOCUMENTS:-

- Chapter I - Notice Inviting Tenders
- Chapter -II – Instruction to the Bidder
- Chapter-III: Condition of Contract
- Chapter-IV: Schedule of Requirements
- Chapter V Description of the Items, Specifications
- Chapter VI - Schedule of Price
- Chapter VII - Agreement
- Chapter VIII- Other Standard Forms



Purchase Officer

Chapter-I
Notice Inviting Tenders
(National Competitive Bidding)
Forest Research Institute
(Indian Council of Forestry Research & Education)
Post- New Forest, Dehra Dun – 248006 Uttarakhand, India

Phone: 0135-2224205; Fax: 0135-2756865
Website: <http://fri.icfre.gov.in> Email: po_fri@icfre.org

TENDER No. X-91/16-17/Purchase

BIDDING DOCUMENT

Online Tenders are invited from the reputed firms for the purchase of Scientific equipments & miscellaneous items for this Institute:-

Item No.	Name of Miscellaneous items & Scientific Equipments	Division/ Branch	Quantity Required
1.	Air Conditioner Hot & Cool	Deemed University	18 nos.
2.	Dental Chair with Compressor	New Forest Hospital	01 No.
3.	Ultrasonic Cleaner	Chemistry Division	01No.
4.	Stereo-zoom Trinocular Microscope	Entomology Division	01no.
5.	Gel Permeation Chromatography System with Fraction Collector	Chemistry Division	1 No
6.	Interchangeable chemical reactor	Chemistry Division	1 No

The details of the above items and other Terms and Conditions, etc. are available in the Tender Documents. The tender forms and specifications are available at web site <http://fri.icfre.gov.in> and CPPP site <https://eprocure.gov.in/eprocure/app>. Those who already submitted EMD, tender fee, etc. under Tender No: 2016_ICFRE_154521 need not to resubmit again however all the documents must be uploaded in CPP Portal.

PURCHASE OFFICER



Chapter-11: Instructions to Bidders

Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>. Tenderer/Bidder are advised to follow the instructions provided in the "Instructions to the Tenderer/Bidder" for the e-submission of the bids online through the Central Public procurement Portal for e-Procurement at <https://eprocure.gov.in/eprocure/app>.

Not more than one tender shall be submitted by one tenderer/bidder having business relationship. Under no circumstances will father and his sons(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s) director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

Tenderer/bidder who has downloaded the tender from the <http://fri.icfre.gov.in> and Central Public procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app>, shall not temper/modify the tender form including downloaded price bid template in any manner. In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD shall be forfeited and tenderer/bidder is liable to be banned from doing business with FRI in future.

The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country. Nationality must be disclosed by the supplier.

All Goods and Related Services to be supplied under the Contract shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

Language of Tender: The tender submitted by the bidder and all subsequent correspondence and documents relating to the tender exchanged between the bidder and the purchaser shall be written in English and/or Hindi language.

The Purchaser (FRI) requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in **Annexure-I**.

Prices shall be quoted as specified in each Price Schedule (BOQ) as provided. The disaggregation of price components is required solely for the purpose of facilitating the comparison of bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. Prices shall be entered in the following manner:

(a) **For Goods manufactured in India:**

- (i) The price of the Goods quoted EXW (ex-works, ex-factory, ex warehouse, ex showroom, or off the-shelf, as applicable), including all excise duty and sales and other taxes already paid



- or payable on the components and raw material used in the manufacture or assembly of the Goods to be quoted in BOQ;
- (ii) Any Sales tax/VAT and other taxes payable on the Goods to be quoted in BOQ, if the contract is awarded to the Bidder; and
 - (iii) The price for inland transportation, insurance, and other local services required to deliver the Goods to their final destination (Project Site) as specified in the Bid document to be quoted in BOQ.
- (b) For Goods manufactured outside India, to be imported:**
- (i) The price of the Goods quoted at FOB up to named place of destination as specified in the Bid Document to be quoted in BOQ.
 - (ii) The price for inland transportation, insurance, and other local services required to deliver the Goods from the named place of destination specified in the Bid document to be quoted in BOQ.
- (c) For Goods manufactured outside India, already imported:**
- (i) The price of the Goods, including the original import value of the Goods; plus any mark-up (or rebate); plus any other related local cost, and custom duties and other import taxes already paid/or to be paid on the Goods already imported to be quoted in BOQ in INR.

Intending tenderers/bidders are advised to visit again FRI website <http://fri.icfrre.gov.in> and CPPP website <https://eprocure.gov.in/eprocure/app> at least 3 days prior to closing date of submission of tender for any corrigendum / addendum / amendment.

Bids will be opened as per date/time as mentioned in the **Tender Critical Date Sheet**.



Check List

Item No	Qualifying documents	Yes/No	Page No.
1.	Tender fee/ Exemption certificate		
2.	EMD in shape of FDR / Exemption certificate		
3.	Signed and scanned copy of appropriate value of valid registration certificate		
4.	Signed and scanned copy authorization certificate		
5.	Signed and scanned copy of PAN card		
6.	Signed and scanned copy of Tender Acceptance Letter as per tender document		
7.	Signed and Scanned copy of VAT Certificate / TIN No./ Service Tax clearance certificate		
8.	Signed and Scanned copy of Affidavit of partnership firm, if required		
9.	Signed and Scanned copy of audited Balance sheet of last three years		
10.	Signed and Scanned copy of affidavit in non-judicial stamp paper of Rs 10/- by the firm that it has never been black-listed/debarred/banned by any Govt. Department/Public sector must be attached along with the Bid, failing which the Bid shall be rejected.		
11.	Signed and Scanned copy of DSG&D Enlistment Certificate. It is compulsory for all firms in India (agent/ authorized supplier/ dealer/ subsidiary/ integrators/ Distributors / Stockiest, etc. of their foreign principals) desirous to quote in foreign currency directly on behalf of their foreign principal.		
Technical documents			
1.	Signed and Scanned copy of make and model of all systems, sub systems and additional items should be mentioned in the technical bid along with complete technical details/specification of the quoted items. should be provided and Brochures and write-ups should also be uploaded as proof.		
2.	Signed and Scanned copy of Organization chart and plants & equipment as per tender documents.		
3.	Scanned and signed copy of users' list and supportive documents from the users for the satisfactory performance and after sales service and experience of the firm.		
4.	Scanned and signed copy of information about suitably trained technical staff along with well established service network must be furnished.		
5.	Scanned and signed copy of on hand training proposal for the staff of the Institute at site.		
6.	All specifications should be certified and guaranteed for genuineness and that the model of the equipment is not going to be obsolete in near future (5 years) (supportive documents from the Principal to be enclosed).		
7.	Availability of spares/parts for next five years to be ensured (supportive documents from the Principal to be enclosed)		
8.	Scanned and signed copy of original catalogue or certified copy of original catalogue and other literature		
9.	Scanned and signed copy of tender document		

Note: It is must to fill check list and document should be submit online in CPP portal in the order as mentioned in the check list.



Chapter-III: Condition of Contract

Submission of Tender

The tender shall be submitted in Two parts, viz., **Technical Bid and Price Bid.**

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

The offers submitted by Fax/email/offline shall not be considered. No correspondence will be entertained in this matter.

Technico –Commercial Bid Bid

The following documents are to be furnished by the Tenderer/Bidder along with Technical-commercial Bid as per the tender document:

Qualifying documents:

- i) Signed and scanned copy of appropriate value of valid Registration certificate, Authorization certificate, PAN No. and Tender Acceptance letter.
- ii) Signed and Scanned copy of VAT/Sale tax Certificate / TIN No., Certificate, Affidavit of partnership firm.
- iii) Signed and scanned copy of audited Balance sheet of last three years and partnership deed as per the tender document.
- iv) Signed and scanned copy of DGS&D Enlistment Certificate. It is compulsory for all firms in India (agent/ authorized supplier/ dealer/ subsidiary/ integrators/ Distributors / Stockist, etc. of their foreign principals) desirous to quote in foreign currency directly on behalf of their foreign principal and payment has to be made to their foreign principal, to get themselves enlisted with DGS&D as per directive of Department of Expenditure, Ministry of Finance. The enlistment is not equivalent to the Registration with DGS&D. Registration with the DGS&D shall not be treated as Enlistment if any firm in India quoting on behalf their foreign principal in foreign currency. **Proof of enlistment with Department of Expenditure, Ministry of Finance through DGS&D for bidding firm in India who desires to quote directly on behalf of their foreign principal in foreign currency must be attached with the technical bid.**
- v) Signed and Scanned copy of affidavit in non-judicial stamp paper of Rs 10/- by the firm that it has never been black-listed/debarred/banned by any Govt. Department/Public sector must be attached along with the Bid, failing which the Bid shall be rejected.
- vi) Earnest Money Deposit (EMD) should be submitted as **crossed Demand Draft (DD)** in favors of Director, Forest Research Institute, Dehradun by post to Purchase Officer, Forest Research Institute, Dehradun-248006, and the scanned copy of the same should be uploaded in the Portal. The EMD for the items are given below:



Item No	Name of Miscellaneous Items & Scientific Equipments	EMD INR
1.	Air Conditioner Hot & Cool	₹ 26,000.00
2.	Dental Chair with Compressor	₹ 9,000.00
3.	Ultrasonic Cleaner	₹ 5,000.00
4.	Stereo-zoom Trinocular Microscope	₹ 4,000.00
5.	Gel Permeation Chromatography System with Fraction Collector	₹ 30,000.00
6.	Interchangeable Chemical Reactor	₹ 12,000.00

- VII) **Tender fee**-The tender form downloaded from above web sites must include Rs.575/- (including 14.5% Uttarakhand Trade Tax) by crossed Demand Draft in favour of Director, FRI as tender fee along with the tenders submitted and the scanned copy of the same should be uploaded in the Portal.

Important: EMD and tender fee should also be submitted before end date and time of bid submission. Those who already submitted EMD, tender fee, etc. under Tender ID: 2016 JCFRE 151721, need not to resubmit again however all the documents must be uploaded on ICP Portal.

Cover 2. Price Bid

The financial proposal must be submitted in the Schedule of price bid in the form of BoQ_1.xls separate for each item. Full details of business terms and conditions, e.g. packing and forwarding, delivery period, VAT/Sales Tax/Trade Tax (whether provincial or Central), other Taxes/Charges, if any, the validity period of quotation, discount, free delivery, packing or any other information relevant to the items may please be indicated clearly. Prices must be quoted F.O.R. Dehradun. Foreign bidders, for **imported goods** if supplied directly from abroad, shall quote prices on **FOB value basis** in any freely convertible currencies (Chapter-VI).

- Price bid undertaking
- Schedule of price bid in the form of BoQ_1.xls

Pre-bid conference: A pre-bid conference will be arranged with the users for finalization of technical specifications of the equipment. Bidders are requested to take part in the Pre-Bid Conference at scheduled date and time. The suggestions given by the bidders in the form of e mail, FAX, etc. will not be entertained. The bidder must be present in Pre-Bid Conference, if bidder requires any change/modification in Bid Document. The change/modification will be incorporated in the Bid Document suggested by the bidder after the open discussion with user, other interested bidders for the item present in the Conference and the Committee. The modified specifications, if any, after Pre-bid conference will be available at the websites and also can be obtained from the office of Purchase Officer. After Pre-bid conference no changes will be accepted in the desired specifications. If no party attends the Pre-bid conference then listed specifications will be considered as final.



b. Technical bid

Technical Proposal

During the preparation of technical proposal, in addition to technical details of the equipment along with scanned copies of **original catalogue and other literature**, the tenderers must give particular attention to the following:

- i) Signed and Scanned copy of make and model of all systems, sub systems and additional items should be mentioned in the technical bid along with complete technical details/specification of the quoted items should be provided and Brochures and write-ups should also be uploaded as proof.
- ii) Signed and scanned copy of Organization chart and plants & equipment as per tender documents.
- iii) Scanned and signed copy of users list and supportive documents from the users for the satisfactory performance and after sales service.
- iv) Scanned and signed copy of information about suitably trained technical staff along with well established service network must be furnished.
- v) Scanned and signed copy of on hand training proposal for the staff of the Institute at site.
- vi) **All specifications should be certified and guaranteed for genuineness and that the model of the equipment is not going to be obsolete in near future (5 years) (supportive documents from the Principal to be enclosed).**
- vii) **Availability of spares/parts for next five years to be ensured (supportive documents from the Principal to be enclosed).**
- viii) Scanned and signed copy of original catalogue or certified copy of original catalogue and other literature.

Important: EMD and Tender Fee should also be submitted before end date and time of bid submission physically in the Purchase Section, Forest Research Institute, Dehradun.

Financial Proposal

The financial proposal must be submitted in the format BoQ_1.xls along with this tender document at <https://eprocure.gov.in/epublish/app>, separate for each item. Full details of business terms and conditions, e.g. packing and forwarding, delivery period, VAT/Sales Tax Trade Tax (whether provincial or Central), other Taxes/Charges, if any, the validity period of quotation, discount, free delivery, packing or any other information relevant to the items may please be indicated clearly in BOQ_1.xls. Prices must be quoted F.O.R. Dehradun. Foreign bidders, for **imported goods** if supplied directly from abroad, shall quote prices on **FOB value basis** in any freely convertible currencies.



Proposal Evaluation

Clarification of Bids

To assist in the examination, evaluation, comparison of the bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids.

If a Bidder does not provide clarifications of its bid by the date and time set in the Purchaser's request for clarification, its bid may be rejected.

Unresponsive bids

The bids will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions, etc. as prescribed in the Bid Document. The bids are liable to be treated as non-responsive and will be summarily rejected if bidder does not upload qualifying and technical documents as required in the Bid Document.

Technical Evaluation

Tenders shall be scrutinized and evaluated by the committee constituted by competent authority with reference to parameters prescribed in the Bid document.

Minor Informality/Irregularity/Non-Conformity

If during the preliminary examination, the purchaser find any minor informality and/or irregularity and/or non-conformity in a bid, **the purchaser may waive the same provided it does not constitute any material deviation and financial impact and, also, does not prejudice or affect the ranking order of the bidders.** Wherever necessary, the purchaser will convey its observation on such 'minor' issues to the bidder asking the bidder to respond by a specified date. If the bidder does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that bid will be liable to be ignored.

A two-stage procedure will be adopted in evaluating the proposals.

- (i) Checking of technical proposal. First of all, the qualifying documents will be checked. If absence of any of qualifying documents, the bid will be rejected. A technical evaluation of the firms on the basis of the required documents for technical bid will be carried out prior to opening the financial proposal.
- (ii) A financial evaluation. Firms will be ranked using a combined technical / financial score as indicated below.



Technical Proposal

The evaluation committee appointed by the client will carry out its evaluation applying the evaluation criteria and point system as specified below. Each responsive proposal will be attributed a technical score (St).

1. The points given to technical evaluation criteria are

II.	Technical specifications of the equipment	70
III.	Firm's relevant experience (including similar jobs in hand and organization chart showing technical and administrative skill of the firm)	15
IV.	After sales service /spares availability	15
	Total	100

The technical proposal should score at least 70 points out of 100 to be considered for financial evaluation.

Financial Proposal

Thereafter, in the second stage, the Price Bids of technically qualified bidders only shall be opened for further scrutiny and evaluation on a date notified after evaluation of the techno-commercial bid.

The ultimate landing cost in respect of store is arrived at by considering following below elements including AMC, Warranty, and Extended Warranty cost, etc if any unless these are optional requirements:

(A) Indigenous stores

1. Basic price
2. Excise duty (if applicable)
3. Sale tax, service tax & other applicable taxes
4. Insurance, freight and transportation of goods up to sites

(B) Imported stores

1. Total Net FOB price in foreign currency of the project.
2. Plus Freight and Insurance charge over FOB price of shipment of stores coming through Customs.
3. Plus Custom Duty in India (if not exempted i.e. there is no mention in technical requirement to provide custom exemption certificate by consignee). Custom duty is applicable on hardware, software, Equipments, Instruments, consumables and other items, etc. coming through customs. Clearance. Custom duties on services are not levied.
4. Plus Landing clearing and Bank charges @1.0% of total net FOB price of the project.
5. Plus actual inland freight/insurance/transportation of goods in India up to the user sites quoted by bidder.
6. Plus Service tax applicable in India, if any.

The evaluation committee will determine if the financial proposals are complete and without computational errors. The lowest financial proposals (Fm) will be given a financial score (Sf) of 100 points. The financial scores of other proposals will be computed as follows $Sf = 100 \times (100/F)$ (Where F is amount of financial proposal).



8.

Proposals will finally be ranked according to their combined technical (ST) and financial (SF) scores using the formula $S = ST \times T\% + SF \times F\%$.

The weight (T %) given to the Technical Proposal is 60%

The weight (F %) given to the Financial Proposal is 40%

A handwritten signature in black ink, appearing to be 'F. M. A.', located at the bottom center of the page.

General Terms & Conditions

The offer will be subject to the following terms and conditions :-

Please note that FRI, Dehra Dun has Custom Duty Exemption and Excise Duty Exemption Certificate. This may be kept in consideration while quoting the rates.

The stores are required to be delivered in full and within 90 days (or time given in Supply Order after acceptance of the offer. If supplier asks for extension, it should be within the validity period and penalty as liquidated damage shall be charges @ 0.5% per week or 2% per month up to the maximum of 10% of the bidding cost in the extension period. It may be waived in unavoidable circumstances with the approval of competent authority.

The offer should be firm and open for acceptance till 120 days from the stipulated date of opening. Price escalation will not be allowed.

Full details of business terms and conditions, e.g. packing and forwarding, delivery period, VAT/Sales Tax/Trade Tax (whether provincial or Central), other Taxes/Charges, if any, the validity period of quotation, discount, free delivery, packing or any other information relevant to the items may please be indicated clearly.

Indian vendor shall quote prices on F.O.R. destination (sites of consignee) basis and Payment to Indian supplier shall be paid in Indian rupees only.

The Indian bidder supplying imported goods shall quote only in Indian Rupees if purchase order to be placed to them. It is the responsibility of Indian firm to pay custom duty, etc. FRI shall not be responsible for custom clearance. Prices quoted by the tenderer shall remain firm and fixed during the currency of the contract.

Foreign bidders, for imported goods if supplied directly from abroad, shall quote prices on FOB value basis in any freely convertible currencies.

Foreign bidder may quote in INR towards allied service in India to be taken by their local partner. Any firm in India (agent/ authorised supplier/ dealer/ subsidiary/ integrators/Distributors/ Stockist, etc of their foreign principal) quoting prices in foreign currency and payment has to go to his foreign principal; the Indian firm shall not be paid in foreign currency in such cases.

No bid should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the bidder.

Full specifications, details and information regarding the articles to be supplied, such as make, size, etc. along with scanned copies of original catalogue or certified copies of original catalogue etc. to be furnished with the offer. The list of users of goods of similar or same nature in the country should also be enclosed. The offer would not be considered fit if these details are not provided.

Normal terms of payment will be 100% payment within 30 days after receipt and acceptance of goods in satisfactory working condition after installation. If training is also the part of the offer, 20% payment will be released after the training. Generally no advance payment is made. If it is essential in cases of maintenance contract /AMC, it will be not exceeded amount payable for 6 months under the contract. It shall be paid after receiving the 110% Bank Guarantee. Other terms of payment should be clearly spelt in the offer. The LC will be open in case of imported equipments quoted in the foreign currencies.

The tender should accompany a DEMAND DRAFT/FDR of value as indicated in tender as Earnest Money (EMD), payable to the Director, Forest Research Institute, Dehradun, which will be refunded, without interest, if the tender is not accepted. In case the EMD is accepted but not honored by the tenderer, the Earnest Money will be forfeited. Earnest Money will also be forfeited, if wrong information is given in the tender to influence the tender cost.

The Bidder should also specify regarding Dealership/Proprietary item and copy of the latest certificate from the principal should be produced with the tender.

Freight, forwarding charges, if any, should be mentioned in the offer, in case of import being done by this institute. The FOB prices should be mentioned.

The stores are required to be delivered to the consignee concerned and the consignee will do inspection and verification of the goods.

The tenderer should quote on their printed letter-head paper, indicating thereon Sales Tax/Trade Tax (if any) (C.No., Registration No., Fax No., Telex No., Telephone No., E-mail), etc.

Variation in quantity is limited to 30% with the approval of competent authority. The reduction in the cost of the additional quantity of the goods/services will be 1% of the tender value.

Two year on-site comprehensive WARRANTY for all the items and works to be given OR (as specified in specifications).

All goods and related services to be supplied under the contract shall have their origin in India or any other country with which India has an unbroken trade relations. The term "origin" as used in this clause means the place where the goods are mined, grown, produced or manufactured or from where the related services are arranged and supplied.



Performance Bank Guarantee: The supplier will have to submit a PBC or Performance security in the form of Bank Guarantee or PDR (at 5% of total order value from a commercial bank in an acceptable form within 21 days of issue of supply order. Performance security should remain valid for a period of 24 months beyond the date of completion of all contractual obligations of the supplier including the warranty obligations. Failure to abide by the contractual obligation will be liable to forfeit the Performance Bank Guarantee.

Any or all Bidder can be rejected by the Director, FRJ without assigning any reason. It cannot be challenged in any court.

Disputes, if any, will be under the jurisdiction of Dehradun Court, Uttarakhand, India.

In case the opening dates of bid and pre bid conference is declared holiday, the dates will be shifted to next working day.

Important: EMD and tender fee should also be submitted before end date and time of bid submission.

Purchase Officer

A handwritten signature in black ink, appearing to be 'Anil', is written in a cursive style.

Chapter-IV. Schedule of Requirements

List of Goods and Delivery Schedule

Line Item No	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in Bid Document	Delivery (as per In coterms) Date		
					Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date (to be provided by the bidder)
Insert Item No	Insert Description of Goods	Insert Quantity of item to be supplied	Insert Unit for the quantity	Insert Site of Destination	Insert Days following the date of effectiveness the Contract	Insert Days following the date of effectiveness the Contract	Insert Days following the date of effectiveness the Contract
1.	Air Conditioner Hot & Cool	18 Nos.	Number	As per tender documents	As per tender documents	As per tender documents	
2	Dental Chair with Compressor	1 No	Number	As per tender documents	As per tender documents	As per tender documents	
3.	Ultrasonic Cleaner	1 No.	Number	As per tender documents	As per tender documents	As per tender documents	
4.	Stereo zoom Trinocular Microscope	1 No.	Number	As per tender documents	As per tender documents	As per tender documents	
5.	Gel Permeation Chromatography System with Fraction Collector	1 No	Number	As per tender documents	As per tender documents	As per tender documents	
6.	Interchangeable Chemical	1 No.	Number	As per tender documents	As per tender documents	As per tender documents	

[Handwritten Signature]

List of Related Services and Completion Schedule

Service	Description of Service	Quantity ¹	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
[insert Service No.]	[insert description of Related Services]	[insert quantity of items to be supplied]	[insert physical unit for the items]	[insert name of the Place]	[insert required Completion Date(s)]

Chapter-V: Description of the items and specifications

Item No. 1: Air Conditioner Hot & Cool (18 Nos.)

Specification:-

- *High wall Mount including all accessories
- * Stabilizer with TDR system 4 KVA
- *Drain pipe with copper testing of suitable size
- *Industrial socket 20AMP capacity with industrial Top complete with 20 AMP MCB
- *Point wiring with Gsgmm 4 square mm multi standard single phase copper conductor including earth wire 4 square mm
- *1.5 Tons

Item No. 2: Dental Chair with Compressor

Specification:-

- Independent up & down movement and backrest movement of the chair.
- 5 programs in the chair, 2 programmable working position, other are spitting, last working position & auto return to Zero.
- White & cold 5 LED light (35,000Lux).
- Doctor's Stool with adjustable backrest tilt, adjustable height and foot ring.
- Emergency red switch to lock the chair in working position.
- Independent switch to control working of white and cold five LED light.
- Auto Off dental light during spitting & Zero position.
- 2 Independent switches to move the chair up & down and backrest movement of the chair.
- A switch for spitting, last working position and Auto return to zero.
- With Pneumatic Locking arm.
- 3 points for air rotor with an option for fiber optic handpiece
- Option for an inbuilt scaler is available for Oral Prophylaxis.
- Removable, autoclavable silicon pads.
- 3 way syringe.
- Points for 3 way syringe.
- Water unit has 2 Independent switches, one for water in spittoon & One for water glass for patient.
- Cannulas removable & autoclavable.
- Inbuilt X-ray View (POPD)

Dental air compressor

DA 7001 :- Suitable upto 2 Dental Chairs.

- Medical grade air
- Oil free – low noise
- Epoxy coating prevents rusting inside the tank
- Moisture drain facility
- Air filter with 1 outlet

Note: After sale services must be provided.



Item No. 3: Ultrasonic Cleaner

Specifications

Specification	Technical score allotted
Digital Timer	5
Degassing feature	5
Tank	10
Capacity (gal.) (L)	10
Tank dimensions (L)	10
Tank dimensions (W)	10
Tank dimensions (H)	10
Frequency output (Hz)	10
Power (Hz)	10
perforated or mesh trays	10
polypropylene beaker positioning covers	10
Firm's relevant experiences (including similar jobs in hand and organization)	15
After sales service/spares availability	15
Total	100

Item No. 4: Stereo-zoom Trinocular Microscope

Specification:-

S.No.	Specification	Technical score allotted
1	Stereozoom microscope with Common Main Objective (MO) system	7
2	Zoom ratio of about 7 to 8: 1 with magnification stop Microscope should have coarse and fine focusing knobs	7
3	Ergonomic Bifurcated head with observation tubes tilted at angle of about 20 to 30 degrees	15
4	Phototube (part of binocular head or if separate in case of binocular head) with 2 step light path selector: 100:0, 50:50, etc	15
5	High quality and aberration free 0.5x Plan Achromatic/Achromatic objective (working distance about 180 mm) and 1X Plan Achromatic/Achromatic objectives (working distance about 80 mm)	15
6	High quality lead glass and aberration free wide field eyepieces 10x with diopter adjustment and eyecups.	4
7	Stand with high flexibility adjustable LED reflected and transmitted lights.	4
8	Microscope should have onsite upgradation possibility for dual observation, dark field and simple polarization observations.	3



Sub Total		70
9	Firms relevant experience (including similar jobs in hand and organization chart showing technical and administrative skill of the firm)	15
10	After sales service /spares availability	15
Total		100

**Item No. 5: Gel Permeation Chromatography System with Fraction Collector
Specification**

The GPC is required with peristaltic pump, columns, fraction collector, refractive index detector and software to control the above modules with following specifications:

Sr. No	Specifications	Technical score allotted
1.	<p>Peristaltic pump –</p> <ul style="list-style-type: none"> • Pressure: 70psi • Control: Microprocessor based • Flow rate range: 0.3µl-30ml/min per channel • Continuous adjustment from 0 to 48rpm by 0.01rpm increments up to 9.99rpm and by 0.1rpm increments above 10rpm • Expandable to 250ml/min using high flow head • Stepper motor drive with LCD readout of motor RPM • Remote control (Start, Stop & Direction Change) via contact closure • 10 stainless steel rollers for smooth operation and low pulsation • Motor speed control via 0-5V variable analog input • Should accept PVC or Viton tubing • The pump should be supplied with two pieces of PVC manifold tubing (0.38 mm and 3.10 mm ID). • Single Channel Head • Control module for 220V/50Hz. 	15

