

Two Bid Tender Document

**Supply and installation of Mist. Chamber size 5Mx10M at
Biodiversity Park of UCOST Jhajhra, D. Dun**



Forest Research Institute

P.O. New Forest

Dehradun-248006

Notice Inviting Tenders
(National Competitive Bidding)
Forest Research Institute

(Indian Council of Forestry Research & Education)

Post- New Forest, Dehra Dun – 248006, Uttarakhand, India

Phone: 0135-2224288; Fax: 0135-2756865
Website: <http://fri.icfre.gov.in> Email: headec@icfre.org

TENDER NO: 30-417/2016/HOD/ Engg. & Ser. Div./Civil

1. **Online bids are invited on single stage two bid systems for the Mist Chamber for FRI. Manual bids shall not be accepted.**
2. 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	21-04-17 at 4:00 P.M	Newspaper/FRI and CPP portal
Bid document download	21-04-17 at 5:00 P.M	Central Public Procurement Portal (CPPP)
Bid submission start date	21-04-17 at 5:05 P.M.	CPP portal
Bid submission end date	27-04-17 at 3.00 P.M.	CPP portal
Opening date of technical bids	28-04-17 at 3.00 P.M.	Office of the Head Engg. & Ser. Div.
Opening date for financial bids	It will decided after technical evaluation.	Office of the Head Engg. & Ser. Div

CONTENT OF TENDER PAPER

THIS PAPER INCLUDES THE FOLLOWING DOCUMENTS:-

1. Notice Inviting Tenders (Chapter I)
2. Terms & Conditions (Chapter -II)
3. Description of the Items, Specifications (Chapter III)
4. Schedule of Price (Chapter IV)
5. Agreement (Chapter V)
6. Format for Bank Guarantee (Chapter VI)

Head
Engg. & Ser. Division

Chapter-1

Notice Inviting Tenders
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TENDER No. 30-417/HOD/2016/Engg. & Ser. Div./Civil BIDDING DOCUMENT Instructions to Bidders

Online Tenders are invited from the reputed firms for the Supply and installation of Mist Chamber Size 5 M x 10 M in Biodiversity park of UCOST, Jhajhra Dehradun

The details of 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>

**Head
Engineering & Ser. Div.**

Chapter-2: Terms and Conditions

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 circumstance 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 or 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 would be forfeited and tenderer/bidder is liable to be banned from doing business with FRI.

Intending tenderers/bidders are advised to visit again FRI website <http://fri.icfre.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.**

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.

Technical Bid

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

Cover 1 a. Qualifying documents:

- i) Signed and scanned copy of appropriate value of valid registration certificate & authorization certificate experience certificate as per the tender notice, PAN No. and Tender Acceptance Letter.
- ii) Signed and scanned copy of VAT Clearance 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 Organization chart and plants & equipment as per tender documents.
- v) Earnest Money Deposit (EMD) should be submitted as **crossed Demand Draft (DD)** of Rs. 14,500/- (Rupees Fourteen thousand five hundred only) **in favors of Director, Forest Research Institute, Dehradun** by post to Head Engineering & Ser. Division, Forest Research Institute, Dehradun-248006, and the scanned copy of the same should be uploaded in the Portal.
- vi) **The bidder who has already submitted tender fee and EMD need not to submit it again physically. They may uploaded the scanned copy of the same**

- vii) **Tender fee:-The tender form downloaded from above web sites must include Rs.573/- (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.**

a. Technical specifications

- viii) 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.

Cover 2 a. Price Bid

- (a) 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.
- (b) Price bid undertaking
- (c) Schedule of price bid in the form of BoQ_1.xls

Price Bid Undertaking

From: (Full name and address of the Bidder)

To,

Dear Sir/Madam,

I submit the price Bid for ----- and related activities as envisaged in the Bid document.

I have thoroughly examined and understood all the terms and conditions as conditions as contained in the Bid document, and agree to abide by them.

I offer to work supply the quoted item at the rates as indicated in the price Bid, Annexure IV inclusive of all applicable taxes except Service Tax.

Yours Faithfully,

Signature of authorized Representative

Schedule of price bid in the form of BoQ_1.xls

The below mentioned Financial Proposal/Commercial bid format is provided as BoQ_1.xls along with this tender document at <https://eprocure.gov.in/e-publish/app>. Bidders are advised to download at this BoQ_1.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid. **Bidder shall not tamper/modify 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 would be forfeited and tenderer is liable to be banned from doing business with Forest Research Institute.

Sl No.	Description	Price (To be filled in by Bidder)
i	Complete Scope of supply of goods as stipulated in the Technical Bid Document on price basis inclusive of all taxes and levies, direct and indirect expenses, and without any escalation, excluding service tax.	In figures----- In words-----
ii	Taxes	As per statutory Liability applicable from time-to-time.

1. The rates will be inclusive of all taxes (except Service Tax), fees, levies, etc. and any revision in the statutory taxes, fees, etc will be the responsibility of the Bidder.
2. In case of any discrepancy/difference in the amounts indicated in figures and words the amount in words will prevail and will be considered.
3. The quoted rates shall remain firm throughout the tenure of the contract and no revision is permissible for any reason.

Authorized Signatory
(Signature of the Authorized Person)

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 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.

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 tender are must give particular attention to the following:

- i) Scanned and signed copy of users list and supportive documents from the users for the satisfactory performance and after sales service.

- ii) Scanned and signed copy of information about suitably trained technical staff along with well established service network must be furnished.
- iii) Scanned and signed copy of on hand training proposal for the staff of the Institute at site.
- iv) 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).
- v) Availability of spares/parts for next five years to be ensured (supportive documents from the Principal to be enclosed).
- vi) In absence of scanned and signed copy of original catalogue or certified copy of original catalogue and other literature the tender would be considered as invalid.

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. Prices must be quoted F.O.R. Dehradun.

Proposal Evaluation

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.).

The points given to technical evaluation criteria are

i)	Firms relevant experience (including similar jobs in hand)	15
ii)	Technical specifications of the equipment	70
iii)	After sales service /spares availability	15

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

Financial Proposal

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

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

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

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

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 30 days after acceptance of the offer.

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.

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. Other terms of payment should be clearly spelt in the offer. The LC will be open in case of imported equipments, if required.

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 offer is not accepted. In case the offer is accepted but not honored by the tendered; the Earnest Money will be forfeited. The Earnest Money will also be forfeited, if wrong information is given in the tender to influence the tender cost.

The Tenderer should also specify regarding Dealership/Proprietary item and copy of the latest certificates 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 No., Registration No., Fax No., Telex No., Telephone No., E-mail, etc.

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

Performance Bank Guarantee: The supplier will have to submit a PBG or Performance security in the form of Bank Guarantee or FDR @ 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 tenders can be rejected by the Director, FRI without assigning any reason. It cannot be challenged in any court.

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

**Head
Engineering & Ser. Division**

CHAPTER III (Description of the items and specifications)

Specification before Pre Bid Conference

Specifications for Mist Chamber / Green house

Detailed Specification for Mist Chamber/ Green House		
S.N	Items	Description/ Specification
01	Size:	Size: 5m x 10m x with side height 7ft. and Center height 12ft. from ground level
02	Structure:	Zinc coated pipes as per Indian standards that prevents rusting of pipes and ensure long life of structure (more than 10 years) preferably Dome shaped welded structure. Made of square GI pipe Hot Galvanized GI (47mmX47mm) IS 1239 anti-corrosive humidity resistant pipe with IS 4736-1968/ISO 65-1973 zinc coat as approved for maximum Indian wind load conditions, structural trusses will be provided for absolute strength wind load 120 km hr. a) GI Pipe: IS standard (IS1239) b) Thickness: 2mm or more
03	Cladding/ covering	Cladding of multiwall polycarbonate sheet. 6mm thick of Lexan or equivalent make. All fittings of aluminum for polycarbonate sheet fixation Sides & Roof Covering with 6mm double wall polycarbonate sheet fixed with anodized aluminum section. Silicone (Translucent) treatment for proper holding and thermal safety. Specification of PC sheet.
04	Cooling System	Cellulose pad 4ft. height. 4 inches thick, Munters/ Hutech make, with gutter system, with complete PVC fittings, fitter, pump (1HP) water Tank

		(1000lts.) Exhaust fans: Slow axial fans. 36 inches 2 nos., Munters or equivalent make.
05	Humidity system	Four way foggers, discharge of 22.5LPH Netafim/Jain irrigation make necessary PVC fittings, , fitter, pump (1HP) and water Tank (1000lts.). system capable to raise relative humidity up to 90%
06	Heating system	Heaters: (2 nos.) Auto thermal cut off device. With double thermostat protection 2.4 KW heater. 1200 RPM. ¼ HP fan motor, selective combustive material chosen for minimum utilization for atmospheric oxygen. Powder coated finish. Input 200-240 VAC, 50Hz. Single phase, Ambient 5°C to 50°C, RH up to 90%.
07	Controllers	<p>Control Panel: Compact control panel facility will be provide with mains ON/OFF Switch, Light Indicator for main light, Cooling, Humidity.</p> <p>Control Panels are manufactured with best quality CRCA sheet steel for lasting and the fine finish. The fabrication of different parts of the panel is carried out on advanced CNC turret punching press and CNC press brake. All the modular parts sections are subjected to seven tank process to ensure anti-rust conditioning smooth finish and protection against corrosive atmosphere high humidity environment. High quality powder coating is applied using the latest Swiss machines.</p> <p><u>Microclimate Temperature Controller</u> Specification: Real Time Microprocessor based user programmable PID Controller, 4 digit LED display for displaying measured values and another 4 digit LED display for displaying settings Trim pot operation. Platinum sensor probe pt-100, set point lock within the setting panel to protect setting changes. Level lock to ensure that the parameter can be read but cannot be changed. Sensor failure indication. Display resolution 0.1 Accuracy $\pm 0.1^{\circ}\text{C}$. automatic hysteresis control. Wide selectable temperature ranges from 0 to 100°C. 4.4KVA load can be directly connected to the powered output. Input 200-240 VAC. 50Hz. Single phase, Ambient 5-50°C, RH up to 90%.</p> <p><u>Microclimate Humidity Controller</u> Specification: Real Time Microprocessor based On/Off control for Humidifying /Dehumidifying. Hysteresis deferential 1%-9%. Delay timer 0-240 sec. Direct/Reverse selectable. Lock function to prevent miss operating. Feather touches operation. Fast response sensor- line resistance <10Ω. Display Accuracy indicating value 0.2% ± 1 digit</p> <p><u>Plitz / Cyclic Timer for humidity</u> :Specific for fogging, misting system, controlled by timer to reduce water logging condition in the Green house. Specification: 0-999 Min./sec. on 0-999 Min./Sec. OFF, automatic cycling, accuracy quartz, Power output can be directly drive misting unit</p>

		load up to 4.4 KVA. Input 200V to 240 VAC. 50Hz. Phase single, 50 Hz. ambient 4°C to 50°C, RH up to 90%.
08	Side curtain wall	Brick masonry, 2ft. above ground and 1.5 ft. below ground. 9 inches thick, plastered.
09	Floor	Concrete floor with plaster
10	Shade Net	Black/Green color 75 or 50% at gutter height inside the green house manually roll-able shade net of Netlon make.
11	Ante-Room	An ante-room size 2x2x2m with double doors, cladding of polycarbonate sheet 6mm thick Lexan/Bayer make. Ante room corridor will have side brick wall (2ft. above ground, 1.5ft. below ground), cemented (PCC) floor. Air Curtain (1no.) Size: 3' wide heavy duty, cabinets of Air curtain are made of cold rolled mild steel sheets. The blowers are made of high quality aluminum sheet with ½ HP motor & double blower system, powder coated finished at pre entry point with auto main ON/OFF operation at the time of door opening/closing.
12	Lighting	LED Light (8 nos.)
13	Electrical Wiring	All wires will be of copper suitable for the desired load, switches from reputed brand. high quality ISI approved fitting with copper multisand twisted Fire Resistant Grade (Plaza or ISI Mark) wires standards of safety with proper MCB with appropriate electrical points of 5/15 amps combined (Havells/ Anchor make)
14	Benching System (6 nos.)	Heavy duty GI welded with 10 gauge spot-welded GI bench with anti-corrosive, humidity resistant treatment with top load bearing capacity of bench 1000kg. approx. Bench Structure- Size: 8' x 2.5' x 4' (L x H X W) Table Frame : 1½" MS Angle Bench Top Platform : 10 gauge MS Iron rod Design for : Root trainer & Plastic pots

Chapter-4: Price Schedule

(a) Price bid undertaking

(b) Schedule of price bid in the form of BoQ_1.xls

Chapter-5: Agreement

The Supplier _____ agrees to accept the terms and conditions of this bidding document in letter and spirit.

Name/Seal of the Tenderer

Chapter-6: Format for Bank Guarantee

To

Forest Research Institute

P.O. New Forest

Dehradun

Your Order No. _____ for the supply and delivery of _____ has been accepted by M/s _____.

In accordance with the terms of payment of the said order, we have agreed to pay the balance of 5% of the contract price of the supplier, furnishing you with an acceptable Performance Bank Guarantee for 5% of the total contract value, viz Rs. _____ for the due performance by the Supplier of all its contractual obligations and to be valid for a period of 24 months for the date of bank guarantee for this purpose you have agreed to accept our guarantee.

In consideration thereof, we hereby guarantee payment of and undertake to pay Rs. __ and remit to you on demand and without demur the sum of Rs. _____ being 5% of the total value of the contract on receipt of your intimation that the Supplier has committed a breach of any of its contractual obligations.

This guarantee shall be valid for a period of 24 months from the date of Installation of the equipment in satisfactory condition or 27 months from the date of dispatch of the last lot of consignment whichever is earlier, and in any event shall expire on _____, you shall have the right to file/make your claim on us under the guarantee for a period of sixty days from the said date of expiry.

This guarantee shall not be revoked without your express consent and shall not be affected by your granting time or any other indulgence to the supplies or by any change in the constitution of the Bank or the supplies or for any other reason whatsoever.

Not with standing anything, contained herein above our liability under this guarantee is restricted to Rs. _____ and this guarantee will remain in force up to and inclusive of _____ - unless an action to enforce a claim under the guarantee is filed against us within sixty days from the date of expiry i.e. on or before _____, all rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

Signatory Bank with Seal

