



भाकृअनुप-विवेकानन्द पर्वतीय कृषि अनुसंधान संस्थान, अल्मोड़ा-263601 (उत्तराखण्ड)
ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora - 263601 (Uttarakhand)
(भारतीय कृषि अनुसंधान परिषद / Indian Council of Agricultural Research)
(कृषि अनुसंधान एवं शिक्षा विभाग / Department of Agricultural Research & Education)
(कृषि एवं किसान कल्याण मन्त्रालय, भारत सरकार)
(Ministry of Agriculture and Farmers Welfare, Government of India)



ISO 9001:2015

No: 2-28/2025-26/Admn.III/

Date 19.02.2025

Subject: Online Tender for Fabrication of Hydroponic System with Polyhouse-01 No. at ICAR-VPKAS, Hawalbagh.reg.

Sir,

You are requested to kindly quote your lowest rates keeping in view the following terms & conditions in respect of the articles indicated overleaf:

1. The quantity proposed in the quotation may be increased or decreased at the discretion of the Competent Authority while placing the order.
2. No advance payment will be made.
3. Tenders not found according to specification will be rejected/not to be considered.
4. The firm should supply the printed literature, operational manual etc., if applicable. The firm should also supply a copy of the authorised dealership certificate of the item, if applicable.
5. The rate should be on **F.O.R. – Selected sites(s)/village(s) ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Hawalbagh, Almora - 263601 (Uttarakhand).**
6. Manual/Offline bids will not be accepted under any circumstances from the bidders/Tenderers who had not submitted their bids online through CPP Portal.
7. The rates quoted should be **clearly indicated in figure as well as in words.** While quoting the rates, it may be clearly indicated whether the items are inclusive or exclusive of all taxes and levies, delivery, installation, warranty etc. either in terms of percentage or in absolute term otherwise quoted rates will be considered as inclusive of all taxes and levies, delivery, installation, warranty etc.
8. Completion of fabrication work will have to be made normally within 60 days from the date of issue of our order or as mentioned in the supply/work order unless such extension is allowed by the Institute, **failing which suitable penalty as indicated in the supply/work order will be imposed.**
9. In case of any disputes, the decision of the Director, ICAR- V.P.K.A.S., Almora shall be binding on the part of the contractor/supplier.

Yours Sincerely,

-Sd-
Officer In-charge (P&S)
for Director

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10. Cost of tender form is waived off.
11. **EMD Rs. 50000/- (Rupee Fifty Thousand Only)** in the form of **Demand Draft/Fixed Deposit Receipt/Banker's Cheque/Bank Guarantee/pay order from any of the Commercial Banks in favour of the Director, ICAR- V.P.K.A.S., Almora payable at S.B.I. Almora** shall be submitted in the electronic format online (by scanning) while uploading the bid. Otherwise the tender will be treated as cancelled. This submission shall mean that EMD is received electronically. However, for the purpose of final consideration, the bidder shall send the Demand Draft/Fixed Deposit Receipt/Banker's Cheque/Bank Guarantee/pay order in original to the **Director, ICAR- V.P.K.A.S., Mall Road, Almora-263601 (Uttarakhand)** through post or by hand so as to reach by the time of tender opening. In case of exemption of EMD as per rule, the scanned copy of the document in support of exemption (bidders who are registered with CPO, MSME, NSIC, ICAR, DARE or MOAFW) will have to be uploaded by the bidder during bid submission.
12. Tender should be submitted against items by online mode through Central Public Procurement Portal at <https://eprocure.gov.in/eprocure/app> and the tender document can be downloaded from ICAR-VPKAS, Almora website <https://vpkas.icar.gov.in>.
13. **The Last date of submission of tender in CPP Portal 28.02.2025, 5.00 PM and tender will be opened on 02.03.2025, 11.00 AM.**
14. In case, rates are quoted in terms of foreign currency, the rates must be quoted as on FOB basis and NOT on CIF basis indicating all the terms and conditions. The foreign banking charges shall be borne by the beneficiary.
15. No part supply will be allowed.
16. **The Technical Bid should consist of all the Technical details like detailed specifications, brand name, model and make, catalogue, authorization letter (if applicable), dealership certificate (if applicable), price list (if any), sales tax certificate, GST registration certificate etc. along with all the commercial terms and conditions.**
17. **The financial bid should consist of the rate only.** Price quoted must be given per unit and must be all inclusive, including packing, forwarding, delivery, taxes, VAT/GST etc., as may be applicable, but shown individually. The amount of discount, etc. offered by the bidder should be specifically shown as admissible. The rates quoted should be FOR for the mentioned items. The rates must be valid for at least 6 months from the date of quotation.
18. The Buyer shall not be responsible for payment of transit insurance charges.
19. **(a) In case of imported goods, the price may be quoted in foreign currency and import will be on FOB basis.** However, custom clearance, Inland freight etc. will be the responsibility of the supplier and no separate charges will be paid for that. However, custom duty exemption certificate shall be provided. The supplier should inform well in advance for sending these papers. No demurrage charges will be paid. If the supplier desires, rate in corresponding Indian currency may be quoted. It will be at the discretion of the Competent Authority of ICAR- VPKAS, Almora to accept Indian or Foreign currency prices.
(b) In case of any custom duty charge, applicable as per Govt. of India's Notification, the same may be paid by the firm which will be reimbursed to the Indian Agent immediately, subject to the condition that the bill of entry in original along with all relevant papers are submitted immediately, after custom clearance and installation and demonstration of the items. Installation and demonstration should be free of cost.

(c) **The import & payment will be made by means of Foreign Bank Draft/ Site Draft in case of foreign imported goods.** Performance Bank guarantee of 10% FOB value valid till the end of warranty period should be submitted before the release of the security deposit. All bank charges outside and inside India shall go to the beneficiary's account. Draft making charges would go to the beneficiary's account and a scanned copy of the draft, if required, can be sent to the Indian agent by post/email. Draft would be handed over after successful installation and demonstration which should be completed within 45 days from the date of draft and submission of all documents like bill of entry etc.

(d) All imported items should be delivered up to destination i.e. all the import should be free of inland freight charges, insurance etc.

(e) **Indian Agency Commission (IAC) rate and amount should be clearly specified as per rules. IAC, wherever applicable, will be paid in Indian Currency only.**

(f) In case of delay in supply, penalty will be imposed @0.5% per week, subject to a maximum of 10% of the FOB value

(g) Indian Agents quoting on behalf of their principal are requested to provide necessary authorization letter from their principal along with the quotation.

20. **Performance Bank Guarantee is required for all indigenous items also the amount should be 3% to 5% of the actual cost of the item. The bank guarantee should cover sixty days more than the entire guarantee/ warranty period.**
21. The guarantee/ warrantee should be from the date of installation. All guarantee/ warranty services should be attended within a maximum limit of 15 days, failing which, proportionate deductions from the PBG may be made at the discretion of the Institute.
22. Legal jurisdiction for all disputes shall be within the purview of the Almora Court.
23. The User list/work experience with proof for the Item/Work being quoted must be provided.
24. Bidders should mandatorily give their current PAN Card No., TDS & other Bank A/C details to enable the office for releasing the dues via e- payment basis.
25. The rate should not exceed Maximum Retail Price (MRP) (wherever exists or in public domain).
26. Other terms & conditions, as may be decided by the Competent Authority from time to time, depending upon the condition & requirement of the supply. The intimation in this regard, shall be provided well in advance & the bidder/ supplier shall be bound by the said terms & conditions.
27. **Bidder should provide the specifications of their products and Clear indication whether the firm is agreed to provide us the required items as per the specification of the bid against each and every requirement of the bid. Merely certifying with a single statement that the 'firm is agreed with all the terms and conditions of bid' will not be considered.**

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28. Director, ICAR- V.P.K.A.S., Almora reserves the right to accept or reject any or all the quotation without assigning any reason.
29. **Authorization/Dealership letter from Principal Manufacturer to the firm or Dealership letter from the dealer to the firm along with Authorization letter to the dealer from the Principal Manufacturer.**
30. **Tender should contain sample of product with complete technical specification.**
31. For any query/ clarification, the undersigned may be approached at **E-mail:**
sanjay.arya@icar.gov.in

Check List (Tender will be rejected if these are not completed)			
Sl.	Documents Attached	YES/NO	Page No. Document attached in Tech. Bid
1	An undertaking for acceptance of terms and conditions of the Institute's tender in the letter head.		
2	Earnest Money Deposit (EMD)/Exemption details		
3	Authorization/Dealership letter from Principal Manufacturer to the firm or Dealership letter from the dealer to the firm along with Authorization letter to the dealer from the Principal Manufacturer.		
4	Technical Bid		
5	Product/ Instrument Leaflet/Brochure etc. (where applicable)		
6	User list/ Previous supply list with previous work done satisfactory certificates.		
7	Certified copy of PAN		
8	Certified copy of TIN Number/GST		
9	Last three years financial statements of the firm along with CA certificate.		
10	Declaration regarding blacklisting of the firm		
11	Bid security declaration that the bidder will not change/modify/withdraw the bid and will be blacklisted for 2 years if not complied.		

Specifications of Hydroponic System with Polyhouse at Hawalbagh		
SN	Items	Specifications
1.	Structure	<ul style="list-style-type: none"> • Actual covered area for structure: 21 X 9.0m= ~190m² • Center height: 4.25 m, Side height: 3.0 m • All galvanized steel should be used of standard quality. The structure should be strong enough to withstand a wind speed of 100km/hrs. End wall& side wall framing aluminum corner trims, aluminum ridge bar and galvanized gutter trim brackets and fasteners as required to assemble frame including columns – 70mm X 50mm/ 60x60mm -2mm thick; trusses-50mmX50mm- 2mm thick; Truss bracing and purlins-38mmX 38mm; gurt-50mm X 50mm with tighten components. A glass fixed view window in front of the structure (size 2.5’x5.0’) to be provided. • Structure with double door entry room: size 3m x2.0m (LXW) • Door: size 2.0m x1m (HXW) or better • Air Curtain: Should be of minimum 3’ size. The air velocity should be 21m/s or more, power ~400W with single phase (01 number) • Two chambers of size ~15m² with a dimension of 3mx4.5m each (with doors) should be made inside the structure at the end.
2	Location of structure	Roof of the new office building at Hawalbagh
3.	Cladding materials	8mm thick multi-walled Laxan/ Ultralite polycarbonate sheet with 80% light transmission, Aluminum profile, silicon sealant, gasket (door and window)
4.	Internal screen	Internal thermal screen, smooth operation with both motorized system and manually. Internal thermal screen with 50% screen.
5.	‘A’ frame vertical system (90m ²)	Plant density: 30 plants/channel, 4cm water continuous flow for moisture and fertilizer application in Nutrient Film Technique (NFT) channel. Supporting structures of ‘A’ frame: MS powder-coated rack 1.5mm thick, height adjustable with anchoring feet. NFT Unit: 100 X 60mm, UPVC lead-free certified channel. NFT channels to accommodate at least 5000 plants. No. of net pots: as per the NFT system and 5000 net-pots extra should be provided.
6	Dutch Bucket Complete System for 70m ²	Dutch bucket with lids and net pots, Complete Planter with Stand and accessories to accommodate 200 plants of tomato/capsicum/cucumber, etc. Dutch bucket: 200 nos size 30cm (L) X 25cm (W) X 22cm (H)
7	Temperature Sensor-	Technical feature of Temperature Control System Input PT 100, Resistance Temperature Detector (RTD) Temp. Range: -10 to 60°C Accuracy: ±1°C. Quantity: 01 nos.
8	Humidity Sensor-	Relative Humidity Control System Humidity working range: 0-100% RH Accuracy @25 ⁰ C: ±2% RH Quantity-01 nos.
9	pH Sensor-	Measuring range: 0-14 Sensitivity: 57 to 59mv/pH@25°C Electrode shaft: Glass Quantity-02 nos.
10	EC Conductivity sensor	Range Conductivity: 0 to 2000 µS/cm Resolution capacity: 1 µS/cm (0 to 1999 µS/cm) Power supply:230V AC or 100VAC Quantity- 02 nos.
11	CO ₂ Sensor	Quantity-01 no. Measurement range: 0 – 2000 ppm Accuracy: ±75 ppm
12	Water Storage Tank	<ul style="list-style-type: none"> • Should have 8 number of water tanks having capacity of 100 liters each for two dosing pumps each for NFT & Dutch Bucket System. • 1000 liter tank for water reservoir – 2nos (1 each for NFT & Dutch Bucket System) and 2000 lit tank for raw water collection. • The tank should be ISI/BSI marked, LDPE, UV stabilized and it should be protected from food grade algae formation. • The Outlet piping size of ¾” UPVC fittings like Elbow, Union, Tee, Ball valves.
13	Fertigation System	Fertigation system should be capable to maintain different nutrients proportions independently for NFT channel and Dutch bucket and will be controlled and monitored through PLC. System should have 2 dosing pumps along with necessary solenoid valves to operate on the basis of sensor feedback and automation.
14	RO system	One RO system for hydroponics 150 LPH capacity with 1000 ltr storage

15	Air Conditioning System	An Air Conditioning system (AC) split type (evaporative type; 4°C to 10°C) should have a capacity of at least 3 Tons/AC: 02 numbers
16	Civil Work	<ul style="list-style-type: none"> • Foundation wall of 1.5 feet height with wall thickness 9” and both sides plastered for all sides of Polyhouse. • Column • will be fixed on the roof with chemical fastener (4 in each column or more) and fish GI plate or better system. • Floor should be covered with non-slip floor mat.
17	Plumbing Work	Complete plumbing work as per required in facility
18	Electrical Wiring and LED lights	All wires should be of 6.0mm ² FRLS copper for AC and 2.5mm ² for pumps and equipment's to be used. Each equipment should have own electric line with suitable rating MCB and should be in ISI PVC conduit pipe/surface panel board and main switches as well as copper earthing for all recessed equipments. 20 nos. LED tube lights to be installed inside the structure.
19	Microprocessor control panel for automation and data recording:	Microprocessor based control for fertigation scheduling, pH, EC required for automation. (2nos.)
20	Fire extinguisher	Fire extinguisher 4.5 kg each: 02 nos.
21	Warranty	Two years onsite warranty for all components
Other condition:		The pre-bid meeting of TVC with interested bidders for clarification about the given specifications of the Hydroponic System with Polyhouse.