



KERALA AGRICULTURAL UNIVERSITY

Regional Agricultural Research Station (SZ), Vellayani

Thiruvananthapuram, 695 522, Kerala

Email : advellayani@kau.in, Phone No.0471 2383239



No.RARS/SZ(7)/3497/2020

Date: 8/03/2022

TENDER NOTICE

Sealed Competitive tenders are invited for construction of polyhouse with two tier benching system with air cooled system as detailed below.

Tender No.	:	RARS/SZ(7)/3497/20
Last Date & Time for receipt of Tender	:	8/03/2022 2.pm
Date & Time for opening of Tender	:	20/03/2022 2.30 pm
Designation and address of Purchasing Authority	:	The Associate Director of Research, RARS(SZ), College of Agriculture, Vellayani P.O., Tvm. Pin - 695 522.
Place of supply	:	Dept. of Plantation Crops and Spices College of Agriculture, Vellayani P.O., Tvm. Pin - 695522.

Sl.No	Items	Specification
1.	Area Model	100 sq m side height 10 ‘; Central height 13 ‘ Buffer room size 6’ x 5’ x 8’ Air curtain at entrance Arc shape
2.	Structure	GI Pipes anticorrosive, humidity resistant with wind resistant frame Door – Anodised Aluminium door 2 nos with poly carbonate sheet with brass strong lock stoppers , door brush at the bottom with hydraulic door closures(each 2 nos) Shade net 50 %
3.	Electrification	High quality ISI approved fittings, standards of safety with proper MCB (High quality) duly fitted in control panel and a 5 kvA voltage stabilizer with a 40 W tube light in buffer room with appropriate electrical points of 5/15 amps combined switch and socket. Conduit and wiring as required for connecting light, fan, meter and pumping to main electrical supplies.
4.	Fan – pad system	Numbers of fan depends upon side of Fan- pad house and it should be capable of exhausting air volume in one minutes Exhaust Fans – 36’’, however it depends upon size of fan pad with 1.1 HP – single phase ISI standard electric motor Tank and motor for cooling system(fan and pad) Filters

5.	Fogging system	<p>Consist of four way anti leak fogger 28 lph flow rate (fogger spacing along the lateral and lateral spacing) and particle size 80-100 micron, 16 mm lateral class -3 , pvc pipe 6 kg/cms, valves, filter, pump panel with volt meter, MCB, relay etc complete application rate 3mm/hr</p> <p>Cyclic timer for humidity/irrigation for fogging, misting system controlled by timer</p> <p>Tank and motor for fogging system</p>
6.	Automatic control systems	<p>Microprocessor photosynthesis control panel for temperature, humidity and light has to be fixed in buffer area. Relative humidity, temperature real time microprocessor controller programmable photoperiodic controller , cyclic timer, main switch to be provided</p> <p>Microclimatic temperature and humidity controller sensor based.</p>
7.	Bench structure	<p>Table frame with GI pipe</p> <p>Size of table 8 ft(l) x 3 (b) ft x 0.5 (ft)</p> <p>Number of benches – minimum of 16 nos</p> <p>Number of tier – 2 nos</p> <p>Benches to be bearable for standard 1200 kg per bench weight limit.</p>
8.	Cladding material	<p>Thick double walled polycarbonate sheet.</p> <p>Working area should be covered with UV stabilized double layered 6mm thick transparent polycarbonate with atleast 80% transmission.The sheets should be fixed on roof and overall sides of the green house and further the sides and roof covering with anodized aluminium stripping, geeignet gasket and silicon treatment for proper holding, insulation and thermal safety is completely required.</p>
9.	Civil construction	<p>Civil construction of internal walls, ceilings and floors resistant to liquids and chemicals.Curtain wall 1’’ above and 1’’below ground level and provide 4 ’’ thick cement concrete in foundation and brick work upto 1 ft above ground level</p> <p>Frame base block At eeual distance as per structure supporting legs.</p> <p>Curtain wall 1 ‘ above ground level and 1’ below the ground level</p> <p>Damp proof course - water proofing</p> <p>Plastering – curtain wall to be plastered outside aand duly painted by water proof snocem/waterproof paint in smooth , coloured.</p> <p>Flooring – Cement concrete floor base to be made of crushed stone dust in 4 inch thick cement concreteand finished with cement slurry complete with proper drainage arrangement, slope etc.</p>
10.	Accessories	<p>Tap, angle wall, ball valves, drainage points, plumping, polymer pipe water connection with one tap connection with corrosion free coated GI pipe/polymer pipes .Water</p>

		connection to be tapped. All polymer pipes and fittings to be arranged and laid and buried .
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Terms & Conditions:

1. **Tender form**

The bidders may submit the tenders on their own papers.

2. **Earnest Money deposit:** EMD of Rs.1,500/- (Rupees One Thousand Five Hundred Only) should be remitted by DD drawn in favour of The Associate Director of Research, Regional Agricultural Research Station, (Sothorn Zone), Vellayani.P.O, Tvm – 695 522.
3. The sealed cover containing the tender document should be superscribed as “Tender for construction of polyhouse with two tier benching system with air cooled system” and addressed to the Associate Director of Research, Regional Agricultural Research Station, (Sothorn Zone), TVM- 695 522, Vellayani. The cover should also contain DD towards EMD.
4. The successful bidder should execute an agreement in Kerala stamp paper worth Rs. 200/- (Rupees Two Hundred Only) and furnish a security deposit amounting to 5% of the order value in the form of bank guarantee/term deposit/DD drawn in favour of Associate Director of Research, Regional Agricultural Research Station, (Sothorn Zone), Vellayani, Thiruvananthapuram Pin. 695 522, payable at the State Bank of India, Vellayani (IFSC: SBIN0070019), when directed from this office.
5. The rate quoted, tax and other charges if any should be separately stated.
6. The rate quoted should be valid for 60 days.
7. The Associate Director has the right to accept or reject any or all of the offers without assigning any reason.
8. **The successful bidder should complete the work within 15 days from the date of receipt of supply order.**
9. If any hartal/strike any unexpected holidays occurs on the date of opening of tender, the tender will be opened at the same time on the next working day.
10. All the rules and regulations applicable to Government tender will be applicable to this tender also.

Special Condition

- Tender insisting payment in advance either full or part for supply and execution of the work are liable for rejection.
- Leaflets/Brochures containing technical features of the polyhouse construction should be attached with the tender
- Payment will be made after satisfactory work and installation of the items specified in polyhouse.
- Operation manual and guaranty cards for the equipments should be provided during supply.
- The supplier should attach their client list along with tender.
- **Details of warranty offered should be clearly stated in the tender.**
- The decision of the undersigned shall be final and binding.

For more details contact 9074548665 during office hours.

SAJAN N. R.
ADMINISTRATIVE OFFICER
FOR ASSOCIATE DIRECTOR OF RESEARCH

