

College of Agriculture, Gwalior

Tender Notice

Tender are invited from reputed firms for construction of Polyhouse/Nethouse at College of Agriculture Gwalior. Tender forms can be obtained from office of the Dean, College of Agriculture Gwalior at a cost of Rs. 1000.00 or can be downloaded from our website www.rvskvv.nic.in. Tender will be received upto January 23rd till 5.00 pm by post only, in the office of Dean.

Dean

COLLEGE OF AGRICULTURE GWALIOR

(M.P)-474002

TENDER FORM "A"

(For agencies supplying equipments this form is to be kept in Envelop marked 'A Technical Bid')

1. Name of item & Serial number as in tender document.
2. A. Tender form fee Rs. 1000 per form: Demand Draft No..... Dated.....
(Enclose D.D.) Name of Bank..... Payable at Gwalior in favour of
Dean College of Agriculture, Gwalior.
B. Earnest money deposit as per list enclosed in form of Demand Draft, No
.....Dated..... (Enclose D.D.)
Bank..... Payable at Gwalior at in favour of
Dean College of Agriculture, Gwalior.
3. If you are exempted from deposition of the Earnest Money in Tenders in
M.P., the certificate of the competent authority or attested photocopy of the
same, clearly indicating "that the firm concern is exempted from deposition
of the EMD in M.P./county" must be enclosed in support. In the absence of
the same, your claim not to deposit EMD will not be entertained.
Encl.....
4. Technical specifications: As in **Annexure -I**.

5. a. Whether you are Contractor/Main distributor/dealer/authorized agency of company or manufacture?
:.....
- b. Certificate of above.....Encl. No.
- c. Your annual turnoverlakh
6. a. Sales tax no. (If not allotted, reason of the same)
.....
- b. Sales tax clearance certificate (recent)
Encl. No
7. a. Income tax PAN No. (if not allotted, reason for the same) :
.....
- b. Experience/appreciation/ performance certificate from institute /concern of repute
for quoted item: Encl. No.
8. Whether the item is free of taxes/ duties. If yes, enclose the documents in support.....Encl. No.....
9. Guarantee/ warranty (minimum of one year).....
10. After sale service (for repair at site/at shop/spare parts availability)
11. Annual maintenance contract after guarantee/warrantee period
.....
(The cost in rupees per annum or percentage of cost of item)

(Authorized Signatory)

TENDER FORM “B”

(For agencies supplying equipments this form is to be kept in Envelop marked ‘B Price Bid’)

1. a. Financial offer for the item in Rs. (item wise) (cost must include all the Charges applicable like transportation/ packaging/ handling/ loading/ unloading/ freight/ insurance and all taxes / Installation/ demonstration charges etc. Rs.

b. The taxes which are included in 13 a, should also be mentioned here.

Type of Tax	Amount
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1.

2.

3.

2. Accessories (if any) .The should be mentioned for every item separately

a. Name cost in Rs (each)

b. Namecost in Rs (each)

c. Namecost in Rs (each)

d. Namecost in Rs (each)

3. Final price (total for 13 to 14 in Rs...../-)(each)

4. Validity of above quoted rates will remain effective minimum for 180 Days from the date of opening the tenders.

(Authorized Signatory)

General Terms and Condition:

1. Downloaded Tender forms can be submitted alongwith D.D. of Rs. 1000/- towards cost of each tender form
2. EMD per item should be submitted in form of D.D. in favour of Dean College of Agriculture, Gwalior payable at Gwalior, from any Nationalized Bank as mentioned bellow:
 - (a) Polyhouse Rs. 10,000.00
 - (b) Netshade house Rs. 8,000.00
 - (c) Aphid proof net house Rs. 3,000.00
3. Tenderer may quote the rate for one or any number or all the items
4. Tender should be submitted in Two Bid i.e. Technical & Financial Bid separately in two Sealed envelopes which should be kept in one larger envelop.
5. Payment will be made after installation and satisfactory report of trial run.
6. University has every right to reject one or all tenders without assigning any reason.
7. Only Reputed manufactures having following documents to quote (copies to be enclosed)
 - (a) Registration with central excise department.
 - (b) Sales Tax Registration Certificate.
 - (c) Supplier should have average annual turnover of Rs. 25 lack for last 2 years.
 - (d) Photocopy of PAN No.
8. The construction work should be completed within 45 days from the date of work order.

TECHNICAL SEPCIFICATION: NET SHADE HOUSE

Size: 10×10×3.0m:2.25m (length×width×center : side height)

Type: Dome shaped

Civil works: RCC foundation (1:2:4) RCC pillars 9”×9” should be 8’ below actual ground level and 1.5 above ground level at every 8’ distance, RCC beam 9’×9’ connecting pillars at green house level. Buffer wall (brick) duly plastered above ground level 2.5 feet.

Floor: 2’6’ wide path in the centre of the length made of crushed bricks 4” thick and with 2” thick CC which is further flushed with 4:3:1 (Gitti:sand:cement) and fixed with anti slippery flooring tiles rest of the area filled with natural yellow soil 8” thick as per requirement.

Super structure: Electroplated GI class B (47mm×47mm, 47×25mm, 25×25mm) 2mm thick square pipe, suitable for maximum Indian wind load condition > 120 km/hr. with structure trusses for absolute strength.

Door: Size 6’3’×3’ (H×W) 1 Nos. with lock and pinion system. Lower half 3’ of the door should be of aluminum plate to prevent entry of rodents.

Roof screen and side cover: 75% UV stabilized (Agro shading net) green colour.

Fixing profile: GI channel + spring laminated.

Electrical Device: High quality ISI approved fittings with FR grade copper cable and rigid standards of safety with proper MCB.

Micro fogging system: RH up to 95% $\pm 2\%$ with micro filler, return gutter, control valve assembly, pressure gauge, humidification; through micro rusting system with LPD 20 Nos. polymer water storage tank 300 lit. capability. 0.5 HP monoblock pump set plilze timer (on delay/off delay) one unit.

Irrigation: Provision of water tap with 3/4 "round GI pipe

TECHNICAL SPECIFICATION: POLYHOUSE

Polyhouse with misting and fertigation and micro tube drip (Propagation House)

Size: W X L X H: (20m x 12m x 3.0m: 2.25m) .

Civil Works : RCC foundation (1:2:4), RCC pillar 9"x 9" should be 8' below actual ground level and ~4' + 2' above ground level at every 8' distance RCC beam 9"x 9" connecting only outer 20 pillars and at centre both length and width wise at poly house level. Buffer wall (brick) duly plastered above actual ground level and 2' above glass house floor level. Filling of site with natural soil.

Floor: 2' 6" wide path in the center of length and width; 1' 6" wide path all along the buffer wall at length and width: made of crusted bricks 4" thick and with 2" thick CC which is further flushed with 4:3:1 (Gitti: Sand: Cement) & fixed with Anti Slippery white flooring tiles; rest of the area natural soil. Filling of site with natural soil as per requirement.

Infrastructure & Super Structure: GI ISI standard IS 1239 class B anti-corrosive, humidity resistant square pipe inner and outer both surface dip-coated with 80-100 micron zinc. Suitable for maximum Indian wind load conditions >120 km/hr with structural trusses with runners for absolute strength.

Glazing/Cladding: High quality UV stabilized LDPE Sheet 200 micron thick film with Anti dust and virus and anti drip properties fitted with aluminum poly gripper.

Shading: 75 % UV stabilized Agro Shading net, Green color.

Humidity System: Humidification through micro misting system with 50 nos LPD, RH up to 90-95% $\pm 4\%$ in the side the whole Poly House, provided with micro filter unit, return gutter, control valve assembly, pressure gauge, Filter and water softening units; Polymer water storage tank 1000 liters capacity fitted with LDPE pipe and 1.5 H.P. Mono-Block Pump Set.

Lighting System: Lighting System through simulators to device PAR lamps strictly in accordance with ISI/DIN/IEC/JIN standards.

Control Panel For Poly House: Separate all in one enclosed lockable panel. All set point locked within the setting panel to protect setting changes. Level lock to ensure that the parameter can be read but cannot be changed.

Naturally ventilated poly house Or fan and Pad system (2 no. each). Good quality aluminated Thermo reflective screen (poly sack) covering the whole poly house

1. Microclimatic Humidity Controller: PID controller/ Real Time microprocessor based on/ off control for Humidifying/ Dehumidifying. Hysteresis/Differential 1% to 9%. Delay timer 0-240 sec. Direct/ Reverse selectable. Feathers touch operation. Fast response sensor Display. Accuracy-indicating value $\pm 0.2\% \pm 1$ digit.

2. Programmable Photoperiodic Controller: Real time microprocessor based. 1-channel, 1 week programme, 42memory location adjustable to the minutes,micro misting system with LPD 36nos,Polymer water storage tank 1000 lit. Capacity with I HP ISI mono block pump set.

Irrigation: Provision of water tank , and rain gun inside the poly house.

TECHNICAL SPECIFICATION: APHID PROOF NET HOUSE

Size: (W x L x H: Center: Side Height): 10m x 12m x 3.0m : 2.25m

Pipe Foundation: UNDER REAMED PIPES suitable for black cotton soil up to a depth of 8 feet, dia of Piles 6"

Beams: RCC 1:2:4 size of beam 9" x 9"

Reinforcement details:

For Beam: 4 nos 10mm tested of steel for longitudinal main reinforcement 8mm dia for sarrup @ 6' C/C.

Buffer Wall: 2' above floor level (9"thick).

DOUBLE DOOR ENTRY:

One no double door entry size-6' 3 x 3' made of 48mm x 48 mm section with lick & pinion system.

STRUCTURE: Structure having trusses top purlins supports designed to withstand the wind load as per IS code made of 48mm x 48mm & 32mm x 32mm Anticorrosive Zinc coated ERW Pipe class B.

Roof Screen and Side cover: Four sides provided with stainless Steel Mesh (40 x 40 gauges 36) duly fixed with Anodized Aluminum Strips.

For Roof Only: Provided with transparent FRP Sheets (2mm thick)

Humidity System: To maintain the humidity in range of 50-90% RH \pm 0.5%. Fogging System should be installed as per following specification.

Micro fogger: Micro fogger should be fixed with high quality rigid PVC pipe and fittings return valve to adjust the pressure with screen filter quantity 36 nos. **PUMP:** 1 HP self-priming Monoblock Pump (ISI) on delay & off delay timer: one no. Tank: 1000 ltr capacity, of ISI Standard ,Holiday programming ,pulse and cycle programme, Random switching canbe activated by any key, Automatic Summer/Winter time changeover, Witching pre selection, power reserve approx, 10 years by lithium battery, program saving by EEPRO.

Electrical wiring: Electrical device: High quality ISI approved fittings with copper multistand twist FR Grade wires and rigid standards of safety with proper MCB with appropriate electrical points of 5Amp & 15 Amp.

Plumbing: Water connection: water connection with one tap in Net House with elbow operated tap should be distribute through corrosion free per-coated GI pipe appropriate diameter (o.75 or 0.5 inch). Stainless Steel Wash Basin in 2 Nos.