



**NAVSARI AGRICULTURAL UNIVERSITY
ASPEE COLLEGE OF HORTICULTURE AND
FORESTRY**

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QUOTATION

Sealed quotations are invited for supply of Air Shower and Shade Net Proof Gable Net House for the plant tissue culture laboratory in the Department of Plant Molecular Biology and Biotechnology. The quotations should be sent in favor of "The Principal & Dean ASPEE college of Horticulture and Forestry, Navsari Agricultural University, Navsari- 396 450, Gujarat" on or before 28th December 2015. The detailed specifications of item & the terms and conditions can be accessed on NAU website (www.nau.in).

Principal & Dean

Specifications for Air shower

- Size of the air shower chamber should be approximately 3' (W) x 3' (D) x 6' (H).
- Spraying wind speed should be around 25 m/s (\pm) through stainless steel nozzles.
- Fitted with pre filter and HEPA Filter.
- HEPA filters should have efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP.
- Should have automatic adjustable time control device for automatic and smooth operation.
- Both doors should be fitted with auto lock system.
- Doors should be with clear visibility through acrylic sheets.

Suggestive technical specifications of shade net proof gable net house

Sr. No.	Particulars	Description/Specifications
1	Product	Gable net house
2	Size	400 square meter (20 mt. x 20 mt.). Grid size (8 mt. x 4 mt.) net house. The structure of net house should be in the multiplies of grid and should be made according the available area.
3	Height	5 mt. center height from floor area and side height 3.5 mt.
4	Structural Design	The structural design must withstand wind speed of minimum 130 km/hr. and withstand crop load up to 25 kg/m ² . The aerodynamic shapes should be preferred to avoid wind load. Inside structure must have GI pipe (SI 1161-1998) frame at 3 mt. height to install UV stabilized plastic sheet.
5	Structure	Complete structure should be made of galvanized steel tubular pipes or equivalent section of light class conforming Indian standards IS:1161-1998 as per NHM Norms, the structural member should be joined with fasteners properly.
6	Columns	60 mm OD, 2.9 mm thick
	Trusses, purlin and hochey	48 mm OD, 2.9 mm thick
	Member for Truss, purlin and others	42 mm OD, 2.6 mm thick
7	Entrance Room and Door	One entrance room of size 2.0 mt. x 2.0 mt. x 2.5 mt. (L x W x H) made of GI square pipe size 38 mm x 38 mm having minimum wall thickness 2.6 mm or Aluminium profile need to be provided and covered with UV stabilized net. Two hinge lockable doors of size 1.0 mt. width & 2.5 mt. height single leaf made in plastic/FRP sheets mounted in suitable strong frame.
8	Cladding material	50% shade green mono UV stabilized net house should be used to cover the structure.
9	Fixing of cladding material	All ends/joints of net house to be fixed with two way aluminum profile with suitable locking arrangement such as zigzag high carbon steel with spring action wire of 2-3 mm diameter. Wooden batons or PVC grippers must not be used. All joints should be welding free.
10	Civil work	Depth of foundation need to be kept at 60 mm or more depending upon soil type and prevailing wind conditions. GI pipes of 48 mm light class conforming to Indian standards ARE:IS 1161-1998 or equivalent sections should be grouted in cement concrete mixture with 1:2:4 ratios. A 3 feet plinth wall should be constructed with cement block
11	Sprinkler irrigation system	Sprinkler irrigation system inside net house need to be selected for banana tissue culture raised plantlets (of approximately 1-1.5 feet height), which will be having beds of 1.5 mt. in width with 0.5 mt. gaps for walk.
12	Structural Design blue print	A 3D layout of structural design with all written dimensions and measurements should be submitted with quotation.

13	Plumbing work	All plumbing work with pipes and every accessory should be arranged by the manufacturer.
14	Warranty	There should be 2 years warranty for UV stabilization on 50% mono green shade net. There should be 2 years warranty.

Terms & conditions:

- (1) The item should be supplied with all necessary accessories to put in working condition or installation.
- (2) Rates should inclusive of all taxes, duties, freight and forwarding charges with F.O.R. delivery to Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari.
- (3) Documentary proof should be submitted for Certificate of Incorporation, Tin no. , copy of Pan Card and/or latest IT Return, Sale Tax/Service Tax Registration.
- (4) The sealed quotations should be sent in favor of “The Principal, ASPEE college of Horticulture and Forestry, Navsari Agricultural University, Navsari- 396 450, Gujarat” on or before 28th December 2015 only through courier or post.