4.7 <u>Indicative Technical Specifications of Insect Net House (INH)- Cable Purlin</u>

S.N	Item	Indicative Specifications
1.	Structure	Tubular Structures with cable purlins Net House
2.	Size	According to requirement
3.	Shape	As per design
4.	Withstand to wind velocity	Structure may be design to withstand wind velocity upto 104 Km/hr. 120 km/hour per hrs. in high wind velocity zone.
5.	Main Column	Exterior corner 76 OD, 2.65 mm thick, height of pole 4m Exterior side/peripheral
٥.	Main Column	column 76 OD, 2.65 mm thick, height of pole 4m Interior column 60 OD, 2mm
		thick, height of pole 5 m i.e. (4 mtr. above ground level+1 mtr. below ground level)
6.	Dalaany	2.50 mtr. Supported with 6mm thick anchor cable
7.	Balcony Trellis System	i) Base wire 8 mm with anchor foundation or GI Pipe 60 mm OD, 2 mm thick, two
7.	Tiems System	nos. first and last row of the structure.
		ii) Trellising wire 3 mm steel or 2 mm gear wire, spaced apart at 75 cm in entire
		crop area in the structure.
		iii) Supporting wire 4 mm steel or 3 mm gear wire, connecting to each column from
		east to west of structure.
8.	Clamps	Clamps-triple wire connector, 6mm thick wire cable clamp
9.	Nut Bolts	Tighten bolt 3/8", 120 mm; Tighten bolt 3/8", 90 mm; Tighten bolt 3/8", 100 mm,
<i>)</i> .	Tut Dons	Eye bolt 3/8", 120 mm
10.	Spacing	5 x 8 mtr., spacing 4 x 5 mtr. at both outer sides
11.	Centre Height	4.0 mtr. in case of flat structure.
12.	Accessories	Cable hold small plate, cable hold large plate, 3" pipe plastic cup, 2"pipe plastic
12.	riccossories	cup, 14mm iron pins, screen red rolls, screen pipe housing, net needles, net oval
		connectors, net hook connectors, simes.
13.	Insect Proof Net &	40 mesh insect net shade net on roof, 40 mesh anti-insect net at sides
	Shade Net	, , , , , , , , , , , , , , , , , , ,
14.	Entrance & anti	Entrance – G.I. frame with poly carbonate sheet 2m x 2m size hinged type with
	room	locking arrangement. (Anti room of size 2m x 4m x 2m with double door and
		covering of insect net/shade net, with provision of entry and exist for tractor), 50
		mm PCC flooring over 75 mm thick sub base.
15.	Foundation	Outer anchor: 1.8 mtr length anchor with 1 mtr depth PCC of CM ratio (1:2:4) of 45
	(Civil material as per	cm diameter.
	HSR)	Outer pole: 50 cm length, 25 mm dia. Bent iron pin/rod in 0.5 mtr depth PCC of CM
		ratio (1:2:4) of 45 cm diameter.
		Intermediate pole: in a pit of 45 cm dia, the pole is inserted 1 mtr. Deep, rested on
1.0	I	plates for foundation and is placed in 25 cm thick PCC of CM ratio 1:2:4
16.	Iron accessories for foundation	Anchor, bent iron pin/rod, inner column base angles/foundation plates for intermediate poles
17.	Drip irrigation and	Drip irrigation system under greenhouse need to be selected on the basis of crop
	Fogging system	spacing design on spacing 30 cm dripper to dripper (two rows per bed) 30 cm x
		40cm along with fogging facilities. The spacing considered for calculation. The
		suggested bill of materials are Sand Filter 10 m ³ /hr, Hydro cyclone filter 25m3/hr,
		Screen Filter/Disc Filter 10 m ³ /hr, Control Valve 63mm, Control Valve 50mm,
		By-pass Assembly 1.5", Air Release Valve, 1", Non Return Valve 1.5", Throttle
		Valve 1.5", Flush Valve 50mm, Venturi 1.5" Assembly with manifold, PVC
		pipe 63 mm/4 kg cm ² PVC pipe 50 mm/4 kg cm ² , PVC pipe 63 mm/6 kg
		cm ² , PVC pipe 50mm/6kg/cm ² , PE plane lateral 16 mm, emitting pipe lateral
		16mm - @ 0.30 m to 0.40m spacing, hanging type micro sprinkler nozzle (four-way
		take off assembly) for very fine water particles (foggers) to be fixed in PE pipe of
		diameter 16mm and fittings & accessories @ 5%. Note: The above list of material is indicative list for 500 sqm structure area. The material may increase/decrease based
		on the size of structure.
18.	Shade Net	Shade Net minimum 35 to 65% IS 16008:2016
10.	Shade Ivet	Shade Net Hillillilli 33 to 03% 13 10008.2010