



THE M.P. STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION
LIMITED:
PANCHANAN, 3 rd FLOOR, MALVIYA NAGAR, BHOPAL
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HO/ COE/ Horti/ 2021 - 22/ 5329

Dated : 31.01.2022

CORRIGENDUM

On-line E-tender number HO/ Horti/ 2021-22/5136 dated 19.01.2022 is invited under e-tendering system for SUPPLY AND COMMISSIONING of various infrastructures at Kuddam (Sausar) district Chhindwara (Madhya Pradesh) up to 2.00 PM on 04/02/2022 can be submitted. For this, the following action will have to be taken in Annexure 7,8,9 &16.

The following condition is replaced in Annexure 7 page No. 18-20.

Suggested technical specifications of naturally ventilated Greenhouse (200 Micron UV Plastic film) with Fan & Pad cooling System for root stock raising. (No.-01)

Sl. No	Items	Description/Specifications
1.	Product	Naturally Ventilated Greenhouse
2.	Size	500 m ²
3.	Bay size	8m x 4m, Width of greenhouse should be at least 35% of the desired length.
4.	Ridge height	5.5m
5.	Ridge Vent	80-90 cm opening fixed with 50 mesh nylon insect screen
6.	Gutter height	4.5 m from floor area
7.	Gutter slope	1% slope need be provided in civil foundation work/ structure
8.	Gutter material	2 mm thick GI sheet with perimeter of 500 mm or more preferably of single length without joint
9.	Structural design	The structural design need to be sound enough to withstand wind speed minimum 150 km/hr and minimum load of 25 kg/m ² . There should be provision for opening one portion at either side for entry of small tractor/power tiller for intercultural practices. The firm needs to high light design features and list of greenhouse clients.
10.	Structure	Complete structure made of galvanized steel tubular pipes or equivalent section conforming Indian Standards having wall thickness 2mm, structural member should be joined with fasteners properly.
11.	Columns	76 mm OD, 2 mm thick
	Trusses	Bottom & top cord 42 mm OD, 2 mm thick
	Trusses member	60 mm OD, 2 mm thick
	Purlin	42 mm OD, 2 mm thick



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	Purlin member & others	33/25 mm, 2 mmthick
	Foundations	Insert GI pipes of minimum 60 mm OD or more to have foundation depth of 100 cm prevailing wind condition, grouted with cement concrete mixture of 1:2:4 using telescopic insertion of column.
	Fasteners	All nuts & bolts must be of high tensile strength and galvanized.
	Entrance room & Door	One double door entrance room of size 3 m x 3 m x 3 m (L x W x H) need to be provided and covered with 200 micron UV stabilized transparent plastic film. Two hinge doors of size 2 m width & 2.5 m height double leaf made in plastic/FRP sheets mounted in suitable strong frame.
12.	Cladding material	UV stabilized 200 micron transparent Plastics films conforming Indian Standards (IS 15827: 2009), multilayered, anti drip, anti fog, anti Sulphur, diffused, clear and having minimum 85% level of light transmittance.
13.	Fixing of cladding materials	All ends/joints of plastic film need to be fixed with two way aluminum profiles with suitable locking arrangement along With curtain top.
14.	Spring Insert	Zigzag high carbon steel with spring action wire of 2-3 mm diameter (plastic coated) must be inserted to fix shade net into Aluminum Profile.
15.	Curtains and insect screen	Roll up UV stabilized 200 micron transparent plastic film as curtains need be provided up to 3.0 m height on all sides having fully motorized crank mechanism. 50 mesh nylon insect proof nets (UV stabilized) of equivalent size need to be fixed inside the curtains. Anti flapping strips is suggested to ensure smooth functioning of the curtain.
16.	Shade net	UV stabilized 50% shading net with fully motorized mechanism for expanding and retracting. Size of net should be equal to the floor area of greenhouse.
17.	Irrigation System with fogging & misting facility	Downside hanging sprinklers: anti leak sprinkler 70 lph/105 lph at spacing 4m x 4 m spacing Modular sprinkler, LLDPE laterals 16 mm, PVC pipe of various sizes, PVC valves, fittings & Accessories, Common Pump and Filtration Unit along with fogging and misting facilities connected with automation system.
18.	Table racks	steel tables for trays

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The following condition is replaced in Annexure 8 page No. 21.

Suggested technical specifications for Insect proof net house for the establishment of mother block for Citrus:. (No.-02)

S. N.	Item	Specification
01	Structure	Flat/Dome shape Shade/Insect Net House
	Size	2000m ²
	Shape	As per design
	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.
	Foundation	2mm thickness GI Pipes compatible with columns, length 1.2m
	Main Column	Size 76 OD, Thickness 2 mm,
	Purlins	Purlin GI pipes – size 48/43 OD/thickness 2 mm, length – 4 m. Purlin members – 33/32mm OD/2mm thickness,
	Corner/Hockey	Size 60OD, Thickness 2mm, Wt. per length 0.15kg, length-0.15m
	Four Way Pipe Couplers	Size 42OD, Thickness 2mm, Wt. per length 0.15kg, length-0.15m
	Five Way Pipe Couplers	Size 42OD, Wt. per length 2.30kg, Thickness 2mm, length-0.15m
	Nut Bolts	Size 3/8"
	Grid Size	4x4, 8x4, 4x6 (m) with 2 mtr hockey on 4 side
2	Gable length	4.0 m
3	Height	Flat Structure – 5m
4	Aluminum Profile	C type GI profile to fix shade net to the structure by means of self-tapping screws. Weight of GI profile is 280-300 gm/meter. Self-Drilling Screw be fixed on profile every 40 cm along the full length of the profile
5	Spring Insert	A coated spring is preferable compared to cold galvanized spring as a coated spring transfer less heat to the plastic and thus enhances the life of the plastic. If we are using GI spring it is better to use a two inch strip of new poly film to be placed over the main plastic in the profile and then lock it with GI profile. This will help in longer life of the plastic as the rusted spring will not directly come in contact with the main plastic. Wire material should be high carbon spring steel with spring action.



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6	Covering material	The boundaries is a photo-selective net (net that integrates physical and optical protection), anti-insect 50-mesh, material HDPE, and 50%shade. The roof-top is a clear color net, anti-insect 50-mesh, material HDPE, 30% shade
7	Door	Double door with 1 m widths and 2m height and another door of 1m x 2m Box section frame is embedded inside for the strength.
8	Anti- Room	Anti-room of size 4mx 3m attached to net house
9	civil work/foundation	Cement concrete 1:2:4 block of size 40 cm x 40cm, 90 cm for embedding vertical poll/pipe of shade net, subject to revision as per requirement of site.
10	Overall slop	1 %
11	APRON	Use of APRON up to 1 mtr height stitched with insect net / shade net
12	Irrigation	Drip irrigation: Double lateral PC drip irrigation connected to automation (irrigation & fertigation system)

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The following condition is replaced in Annexure 9 page No. 22.

Suggested technical specifications for Insect proof net house for the growth of rootstock in poly bags and grafting/hardening:. (No.-03)

S.N.	Item	Specification
01	Structure	Flat Insect proof Net House
	Size	2000m ²
	Shape	As per design
	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.
	Foundation	2mm thickness GI Pipes compatible with columns, length 1.2m
	Main Column	Size 76 OD, Thickness 2 mm,
	Purlins	Purlin GI pipes – size 48/43 OD/thickness 2mm, length – 4m .Purlin members – 33/32mm OD/2mm thickness,
	Corner/Hockey	Size 60 OD, Thickness 2mm, Wt. per length 0.15 kg, length-0.15 m
	Four Way Pipe Couplers	Size 42 OD, Thickness 2mm, Wt. per length 0.15 kg, length-0.15 m
	Five Way Pipe Couplers	Size 42 OD, Wt. per length 2.30 kg, Thickness 2mm, length-0.15 m
	Nut Bolts	Size 3/8"
	Grid Size	4x4, 8x4, 4x6 (m) with 2 mtr hockey on 4 side
	Gable length	4.0 m
Centre Height	Flat Structure – 4m	
2.	Aluminum Profile	C type GI profile to fix shade net to the structure by means of self-tapping screws. Weight of GI profile is 280-300 gm/meter. Self-Drilling Screw be fixed on profile every 40 cm along the full length of the profile
3.	Spring Insert	A coated spring is preferable compared to cold galvanized spring as a coated spring transfer less heat to the plastic and thus enhances the life of the plastic. If we are using GI spring it is better to use a two inch strip of new poly film to be placed over the main plastic in the profile and then lock it with GI profile. This will help in longer life of the plastic as the rusted spring will not directly come in contact with the main plastic. Wire material should be high carbon spring steel with spring action.



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4	Covering material	The boundaries is a photo-selective net (net that integrates physical and optical protection), anti-insect 50-mesh, material HDPE, and 50% shade. The roof-top is a clear color net, anti-insect 50-mesh, material HDPE, 30% shade
5	Door	Double door with 1 m widths and 2m height and another door of 1 m x 2m Box section frame is embedded inside for the strength.
6	Anti- Room	Anti-room of size 4mx 3m attached to net house
7	civil work/foundation	Cement concrete 1:2:4 block of size 40 cm x 40cm, 90 cm for embedding vertical poll/pipe of shade net, subject to revision as per requirement of site.
8	Overall slop	1 %
9	APRON	Use of APRON upto 1 mtr height stitched with insect net / shade net
10	Drip irrigation and fogging System	Drip irrigation: online PC 4way drippers with micro-tubes (pegs) and fogging system as per area of the structure.
11	Optional	Aluminum Screen Shade Net 35 to 65% minimum 75 GSM to 90 GSM plastic as top is dome top.

Soil-less media:- 40% coco peat with 40% sand mix and 20% organic manure after composition of six months (vermi compost).

Irrigation system:-

- Online PC drip with micro-tubes and pegs having discharge 8 LPH with automation.
- Company should provide five years of guarantee.
- Centre of Excellence team will maintain the irrigation system.

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The following condition is replaced in Annexure 16 page No. 30.

FINANCIAL OFFER

NAME OF THE BIDDER
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S. No.	Particulars	Number	Area (Sqm)	Annexure
A	Infrastructure			
1	Naturally Ventilated Greenhouse	1	500	7
2	Insect proof Net House (Mother block)	2	2000	8
3	Insect proof Net House (for rootstock establishment, grafting & hardening)	3	2000	9

"As Approved by Managing Director"


Assistant Manager (Horti)