

**Implementation
Guidelines
2016-17**

PROTECTED CULTIVATION

General Guidelines:

1. *Procedure to apply for assistance:*

A. Under Self-finance cases

- I. All the cases must be entertained through online on HORTNET in case assistance is to be availed under MIDH scheme.
- II. The cases shall be entertained on First Come First Serve Basis.
- III. The applicant shall be responsible for the completion of all required documents. Incomplete documents does not entitles applicant to avail assistance. The application shall be considered only after completion of all the documents.
- IV. Farmer will apply to concern ADH office through HO of concerned block with complete required documents as per check-list.
- V. ADH will verify the documents as per check-list and will forward the case online on HORTNET to headquarter with his recommendation as per availability of the funds with them.
- VI. Headquarter will scrutinize the cases and accord approval for release of assistance under this component.
- VII. ADH will issue sanction letter after approval from HQ.

B. Under bank finance:

- I. All the cases must be entertained through online on HORTNET in case assistance is to be availed under MIDH scheme.
- II. The cases shall be entertained on First Come First Serve Basis.
- III. The applicant shall be responsible for the completion of all required documents. Incomplete documents does not entitles applicant to avail assistance. The application shall be considered only after completion of all the documents.
- IV. Farmer will apply to concern ADH office through HO of concerned block with complete required documents in two set of copies as per check-list.
- V. ADH will verify the documents, if found, as per check-list and will send second copy to the bank with pre-sanction letter to bank for sanctioning the loan of the project in front ended credit linked project.
- VI. Bank after sanctioning the loan amount of project will send a copy of sanction letter and appraisal report to ADH for the sanction of project. The date of

receiving of appraisal report in ADH office shall be treated as first day of application and will be considered based on available targets.

- VII. ADH will forward the all case online on HORTNET to headquarter with his recommendation as per availability of the funds with them.
- VIII. Headquarter will scrutinize the cases and accord sanction for release of assistance under this component.

2. Eligibility Criteria for applicant:

1. Minors are not eligible.
2. Only farmer of **Andhra Pradesh state** can be a beneficiary under the schemes. The document viz. Ration card/voter card/*Aadhar* card/Domicile/Passport etc. is required.
3. Farmer means a person having land ownership in one's name. For this he has to submit Land Records: Original *Pattardar Pass book* (Latest by three months) Land verification report by *Patwari and VRO*. All the documents submitted shall latest not more than three months old.
4. Farmer includes farmer's family, means husband, wife and their minor children. Ration card is required to prove family unit.
5. The adult son/daughter or in case of his/her death, his/her widow/widower and children shall be deemed to be living with the parents or either of them. The adult son/daughter shall only be considered as separate unit only when separated from parents. *It means they live separate from parents and this can be verified by means of Adhaar card and/or Voter ID Card or Driving License or separate ration card having in all the cases separate address to that of their parents.*
6. Department promotes cluster and for that farmers of Andhra Pradesh can take land on lease. But in all such cases the cluster projects should be bankable. The combined amount of assistance to such cluster projects should not increase 20% of the total financial targets of that district.
7. **Title of the land and copy of record of right**

The title of the piece of land on which the project is proposed to be set up should be in the name of applicant in the capacity of owner or **in case of leased land, the lessee has to produce affidavit for a period of 10 years duly notarized for availing subsidy.**

Only those applicants are eligible to apply who did not availed assistance on account of Protected Cultivation in his/her name/spouse name or in name of dependent member of his/her family from any Government agency. Further those applicants or dependent family

members who have been availed assistance under this component at anytime, anywhere in Andhra Pradesh are not eligible.

3. Training: Minimum three days training-cum-workshop regarding awareness on Protected Cultivation, issues related to Cultivation, Construction and Maintenance of Poly houses is required. A certificate to this effect shall be issued by RHTIs. Training certificate is mandatory before release of assistance on account of cost of cultivation.

4. Construction of Protected Structures: The work of construction of protected structures shall be completed within a period of **60 days**. Further, an extension of maximum 30 calendar days may be considered in advance in writing.

5. Assistance Limit: The assistance shall be applicable as per norms given below and the **assistance will be released to the beneficiary only through online transfer from Head Office** in two installments.

The 1st Installment will be released after receipt of inspection report from the ADH stating that the structure of the unit is completed without cladding material (i.e., sheet laying) & MI component.

The 2nd installment will be released after receipt of Joint Inspection Report from the ADH along with check list in the prescribed format and concerned photos.

The Polyhouse / Shadenet units are to be constructed through the enlisted companies / firms only.

6. Pattern of Assistance:

Sl.No.	Item	Estimated unit cost (Rs.)	Pattern of Assistance
1	Polyhouse Structure		..
2	Naturally ventilated system		
	i) Tubular structure		
	Upto 500 Sq.mts	Rs.1060/- Per Sq.mtr	50% of unit cost
	Upto 1008 Sq.mts	Rs.935/- Per Sq.mtr	50% of unit cost
	Upto 2080 Sq.mts	Rs.890/- Per Sq.mtr	50% of unit cost
	Upto 4000 Sq.mts	Rs.844/- Per Sq.mtr	50% of unit cost
2	Shade Net House		
	(a) Tubular structure With G.I Pipes	Flat shape-all GI; 4.0 m height	
	Upto 1008 Sq.mts	Rs.500/- Per Sq.mtr.	50% of unit cost
	Upto 2080 Sq.mts	Rs.471/- Per Sq.mtr.	50% of unit cost
	Upto 4000 Sq.mts	Rs.460/- Per Sq.mtr.	50% of unit cost
3	Cost of planting material of high value vegetables grown in poly house (Capsicum, British cucumber & Tomato (Indeterminate type)).	Rs.140/Sq. m	50% of cost limited to 4000 Sq.m per beneficiary.
4	Cost of planting material & cultivation of Orchid & Anthurium under poly house /shade net house.	Rs. 700/Sqm	50% of cost limited to 4000 Sq. m per beneficiary.
5	Cost of planting material & cultivation of Carnation & Gerbera under poly house/shade net house.	Rs. 610/Sqm	50% of cost limited to 4000 Sq. m per beneficiary.
6	Cost of planting material & cultivation of Rose, Chrysanthemum and lilum under poly house/shade net house	Rs. 426/Sqm	50% of cost limited to 4000 Sq. m per beneficiary
7	Plastic Mulching	Rs. 32,000/ha and Rs. 36,800/ha for hilly areas	50% of the total cost limited to 2 ha per beneficiary.

Note:

1. MI Engineers should involve in designing, footing, fabrication and installation of entire Polyhouse / Shadenet houses units and MI Engineers are held responsible for any deviation or any lacuna in the units. The copy of the Administrative sanction letter of the units should be given to MI Engineers and the receipt from them should be acknowledged to the Head office.
2. Other than G.I Pipes i.e., MS Pipes etc are not allowed in any part of the Polyhouse / Shadenet houses.
3. The expenditure over and above the unit costs shall be borne by the farmer and the unit must be constructed with all components specified in the check list, otherwise the units should not be considered for release of subsidy.
4. In case the units which are constructed with higher costs/higher specifications, the subsidy will be limited to the unit costs are approved by the Department of Horticulture.

Terms & Conditions:-

- The selected beneficiary who have already availed maximum limit of subsidy is not eligible.
- pH of the irrigation water should be in the range of 5.5 to 7.0 and EC between 0.1 to 0.3 ms/cm.
- pH of the soil used as propagating material / media should be in the range of 5.5 to 6.5 and EC between 0.5 to 0.7 ms/cm respectively.
- The selected beneficiaries should be given training programme and exposure visit on concept of protected cultivation, package of practices of high-tech floriculture and high value vegetables.
- The estimated project details designed by the technical consultant as per technical standards of MIDH should be attached to the application.
- Soil and water analysis reports from reputed labs are also to be enclosed to the proposal.
- Protected Cultivation of vegetables should be promoted under MIDH in clusters around major cities/metros. These clusters may be provided with other infrastructural facilities like pre-cooling units, cold storages, refer vans, vending carts etc. and marketing arrangements may be tied up by linking with cooperatives / private retail chain.
- Farmer is responsible for the erection of the Polyhouse / Shadenet House / inset net house.
- A display board depicting "Department of Horticulture" (Assisted Polyhouse with logo of NHM).
- Subsidy will be released through online transfer to the beneficiary/Firm after joint inspection by the committee members.
- Assistance should not be availed from any Government department. An affidavit duly notarized Rs. 100 stamp paper (format enclosed) to be collected from the farmer along with the proposal.
- Polyhouse flowers, vegetables, medicinal and aromatic plants, spices etc. should be considered for cultivation.
- The proposals for construction of Polyhouse / Shadenet house may also be implemented in project mode with credit link back ended subsidy.
- Shade nets of 35 to 75 % shade should be used.
- Documentation with photo graphs to be done at various stages of erection of Polyhouse / Shadenet House and submit to State MIDH cell along with

joint inspection report duly indicating the Name of the beneficiary, Extent , Village and Mandal.

- The photograph should clearly depict the board, unit, farmer and also committee members of joint inspection team.

After the selection of the beneficiaries:-

- Farmer registration should be done in Hortnet.
- Administrative sanction proceedings will be issued by the Commissioner of Horticulture and list of beneficiaries should be submitted for approval of State Level Executive Committee.
- After undergoing training the farmer should take the installation of Polyhouse as per the technical specifications of MIDH.
- The beneficiary/Firm has to complete the construction of Polyhouse / Shadenet House within 60 days from date of issue of administrative sanction proceedings.

Inspection: There shall be two inspections.

I. First Inspection: First inspection shall be conducted by Joint Inspection Team (JIT) from DHQ (District Head Quarters), ADH&HO or Third Party Inspection nominated by the Department just after supply of material and completion of foundation work. This inspection will be conducted after call from farmer/firm in written to ADH of the District with assurance that the material supplied as per component list and the foundation work is complete as per departmental specifications and quantity as per design excluding cladding material. The farmer/firm will keep representative sample of all the components. The JIT may check any of the used material at site and firm has to facilitate it. In case of bankable cases Joint Inspection Team (JIT) along with Banker shall carry out the inspection.

II. Final Inspection: Final inspection shall be conducted by JIT or Third Party Inspection nominated by Head of the Department after intimation to ADH of the District after completion of structure in all respects. PD MIP/ DDH, ADH, HO, Firm representative, farmer & Banker (in case of Bankable) will remain present at the time of physical inspection to be carried out.

Constitution of Joint Inspection Committee for Polyhouse / Shadenet house & Planting Material under Protected Cultivation:-

ADH shall organize Joint inspection of the Polyhouse / Shadenet House duly constituting a committee with the following members for approval of state cell:

1. PD, MIP / DDH
2. Assistant Director of Horticulture (concerned)
3. Horticulture Officer
4. MI Engineer, MIP.
5. Banker (in case of bankable project).

The joint inspection report should be sent in format with all necessary certifications. If any of the committee members has not attended the inspection, ADH shall give reasons for not attending the joint inspection.

After the completion of the erection of the Polyhouse:

- The beneficiary should submit the work completion certificate to the ADH.
- The beneficiary has to submit all the original bills for the expenditure incurred to the ADH for further processing.
- ADH to co-ordinate with the members of the joint inspection committee and should arrange inspection of the completed Polyhouse.
- Later the committee shall inspect the unit and submit joint inspection report in the (format enclosed).
- Photograph of the unit along with farmer and committee members has to be enclosed to the joint inspection report.
- The joint inspection report in the prescribed format has to be submitted to State MIDH cell along with DMC approval for release of subsidy.
- ADH concerned should upload the field photos and bills in hortnet for release of subsidy.
- The subsidy has to be released to the beneficiaries/Firm through online transfer only.

**WORK FLOW & CHECK LIST FOR DOCUMENTS TO BE SUBMITTED TO
POLYHOUSE / SHADENET HOUSE / PLANT MATERIAL**

Sl.No.	Description	Documents to be submitted by / Action to be taken
1	Application Form –Format-I	Farmer
2	Soil & Water Analysis Water Report	
3	Affidavit – Format – II	
4	Pattadar Pass Book Copy	
5	Project Estimate	
6	Organization of training programme / Field Visit	HO / ADH
7	Application filling in Hortnet	Farmer / HO
8	District Mission Committee Approval	ADH
9	Issue of Administrative Sanction- Format – III	CoH
10	SLEC Approval	State MIDH cell
11	Erection of Polyhouse	Farmer/Firm
12	1 st Joint Inspection after foundation	ADH & HO
13	Completion & Under Taking – Format – IV	Farmer & Fabricator
14	Submission of bills & invoices	Farmer / HO
15	Constitution of Joint Inspection Committee	ADH
16	Final Joint Inspection Report - Format - V	Committee Members
17	Sending of copy of Joint Inspection Report along with photo graphs to Commissioner of Horticulture.	ADH
18	Uploading the bills and field photos in Hortnet	ADH
19	Release of subsidy to the beneficiary through online transfer with the approval of DMC.	CoH

Check list for Shade net House/Insect House (Dome shaped)

Structural parts (GI Pipes)-

Sl. No.	Name of the part	Length in m	Dia in mm	Thickness in mm	Present or Not
1	Foundation pipe	1m to 1.2 m	48 mm OD	3 mm	
2	Net house column-centre	4 m	60 mm OD	2 mm	
3	Top purlins	4 m and 6 m	43 mm OD	2 mm	
4	Clamps and nut bolts	As per requirement			
5	Corridors	2.0 m	60 mm OD	2 mm	
6	Horizontal members	1 to 1.5 m	42 or 33 mm OD	2 mm	
7	Cross Bracings at top corners	As per requirement	42 mm OD	2 mm	
8	Knee bracing to connect horizontal and vertical member at the corner	0.5 m	33/42mm OD	2 mm	
9	Arches	As per requirement	42 mm OD	2 mm	
10	Column- side	3m	60 mm OD	2 mm	

Other parts of the structure:-

Sl. No.	Particulars	Present or Not
1	Shade net OR Insect Net	
2	Shade Net (On top underneath top net)	
3	Aluminum Profiles	
4	Spring Insert	
5	Foundation work	
6	Top purlins	

Entry Room (2 door of 2m x 2m Aluminium and poly carbonate mix)

Sl. No.	Description	Specification	Present or Not
1	Entry room size	4 m x 4 m, 4 m x 3 m, 3 m x 3 m	
2	No of doors	02 (inner door may be of frame stitched with 40 mesh insect net of minimum 50 cm overlapping)	
3	Door size	1.2 m x 2 m; Door of GI square pipe	
4	Frame of door (ISA four sides to cover the gap below the door)	Galvanized	
5	Half part of door (Downside)	Aluminium sheet	
6	Upper half part of door	Poly carbonate sheet 5 mm thick	
7	Flooring	Bricks flooring with plaster 15 mm thick	

Check list for MI Component of Shade Net House

Sl.No	Description of Items	Unit	Size of Shade Net House (sqm)				Present or Not
			500	1008	2080	4000	
A	Drip System						
1	Main and Submain Line PVC 63 mm x 4 kg/cm ²	Meter	36	48	70	110	
2	Main Line PVC 75 mm x 4 kg/cm ²	Meter	0	0	0	60	
3	16mm LLDPE Lateral line CL-2	Meter	60	70	130	200	
4	Inline 16mm, 1.3 to 2.4LPH @ 20-40 cm CL2	Meter	260	500	2000	4000	
5	Ball Valve 63 mm (Moulded Seal, Plain)	Nos.	2	2	2	2	
6	Ball Valve 75 mm (Moulded Seal, Plain)	Nos.	0	0	0	1	
7	Submain Flush Valve 40mm	Nos.	2	2	2	2	
8	Submain Line for Flusing 40 mm X 6 kg	Meter	30	40	60	110	
B	Fogging Machine						
1	Main and Sub-main Line PVC 50 mm x 6 kg/cm ²	Meter	36	42	70	110	
2	Main and Sub-main Line PVC 63 mm x 6 kg/cm ²	Meter	0	0	210	60	
3	16mm LLDPE Lateral line	Meter	250	450	900	1900	
4	4 way Fogger Assembly with HP LPD	Nos.	82	125	280	585	
5	Ball Valve 50mm (Teflon Seal, Plain)	Nos.	2	1	1	0	
6	Ball Valve 63mm (Teflon Seal, Plain)	Nos.	0	0	0	1	
7	Submain Flush Valve 40mm	Nos.	2	2	2	2	
8	GI Wire 2mm thick	Meter	200	350	800	1400	
9	Submain Line for Flusing 40 mm X 6 kg	Meter	36	42	60	110	
C	Filteration Unit	Nos.	1	1	1	0	
1	Disc filter 25 m ³ /hr	Nos.	0	0	0	1	
2	Disc filter 40 m ³ /hr	Nos.	1	1	0	0	
3	Sand filter 10 m ³ /hr	Nos.	1	1	0	0	
4	Sand filter 25m ³ /hr	Nos.	0	0	1	0	
5	Sand filter 40 m ³ /hr	Nos.	0	0	0	1	
6	Manifold GI + GMV	Nos.	1	1	1	1	
7	Ventury Assembly Complete	Nos.	1	1	1	1	
8	Air Release Valve Assembly 1"	Nos.	1	1	1	1	

Check list for Shade net House/Insect Net House (Top Flat)

Structural parts (GI Pipes)-

Sl. No.	Name of the part	Length in m	Dia in mm	Thicknes s in mm	Present or Not
1	Foundation pipe	1m to 1.2 m	48 mm OD	3 mm	
2	Net house column	4 m	60 mm OD	2 mm	
3	Top purlins	4 m and 6 m	42/43 mm OD	2 mm	
4	3/4/5 way	200 mm each side	43 mm OD	2 mm	
5	Clamps and nut bolts	As per requirement			
6	Corridors	2.0 m	48 mm OD	2 mm	
7	Horizontal members	1 to 1.5 m	42 mm OD	2 mm	
8	Cross Bracings at top corners	As per requirement	42 mm OD	2 mm	
9	Knee bracing to connect horizontal and vertical member at the corner	0.5 m	33/42mm OD	2 mm	

Other parts of the structure:-

Sl. No.	Particulars	Description	Present or Not
1	Shade net OR Insect Net	50% at the top of the structure fitted in Aluminum/GI profile and springs. (Red, Green or white) UV stabilized, UV stabilized 40/50 mesh white colored insect net. 1m high woven fabric should be all over periphery (150GSM/200GSM)	
2	Shade Net (On top underneath top net)	Non- motorized for all sizes. Gear wire manual operation system with rotary handle having ball bearings or Pulleys with nylon rope. Shade Nets 40/50/75 % based on crop requirement of any color.	
3	Aluminum Profiles	Al profiles of 200 to 220 gr per running m	
4	Spring Insert	Zigzag spring (UV stabilized plastic coating) insert to fix shade net/insect net to Profile. 2.3 mm diameter of spring wire and cold galvanization is applied on the wire. Wire material is high carbon steel with spring action. The net is to be fixed at every 4 m on top purlin.	
5	Foundation work	Telescopic type. The column size to be 45 cm x 45 cm x 90 cm depth of CC 1:2:4 ratio properly compacted over 10 cm layer of 1:8:16. Two hold fast to be used in perpendicular direction at 20 cm apart in concrete starting from 20 cm from base.	
6	Top purlins	To be fixed on each column on top (6 m x 4 m)	

Entry Room (2 door of 2m x 2m Aluminium and poly carbonate mix)			
Sl. No.	Description	Specification	Present or Not
1	Entry room size	4 m x 4 m, 4 m x 3 m, 3 m x 3 m	
2	No of doors	02 (inner door may be of frame stitched with 40 mesh insect net of minimum 50 cm overlapping)	
3	Door size	1m x 2 m : Door of GI square pipe	
4	Frame of door (ISA four sides to cover the gap below the door)	Galvanized	
5	Half part of door (Downside)	Aluminium sheet	
6	Upper half part of door	Poly carbonate sheet 5 mm thick	
7	Flooring	Bricks flooring with plaster 15 mm thick	

Check list for MI Component of Shade Net Houses

Sl.No	Description of Items	Unit	Size of Shade Net House (sqm)				Present or Not
			500	1008	2080	4000	
A	Drip System						
1	Main and Submain Line PVC 63 mm x 4 kg/cm ²	Meter	36	48	70	110	
2	Main Line PVC 75 mm x 4 kg/cm ²	Meter	0	0	0	60	
3	16mm LLDPE Lateral line CL-2	Meter	60	70	130	200	
4	Inline 16mm, 1.3 to 2.4LPH @ 20-40 cm CL2	Meter	260	500	2000	4000	
5	Ball Valve 63 mm (Moulded Seal, Plain)	Nos.	2	2	2	2	
6	Ball Valve 75 mm (Moulded Seal, Plain)	Nos.	0	0	0	1	
7	Sub main Flush Valve 40mm	Nos.	2	2	2	2	
8	Submain Line for Flusing 40 mm X 6 kg	Meter	30	40	60	110	
B	Fogging Machine						
1	Main and Sub-main Line PVC 50 mm x 6 kg/cm ²	Meter	36	42	70	110	
2	Main and Sub-main Line PVC 63 mm x 6 kg/cm ²	Meter	0	0	210	60	
3	16mm LLDPE Lateral line	Meter	250	450	900	1900	
4	4 way Fogger Assembly with HP LPD	Nos.	82	125	280	585	
5	Ball Valve 50mm (Teflon Seal, Plain)	Nos.	2	1	1	0	

6	Ball Valve 63mm (Teflon Seal, Plain)	Nos.	0	0	0	1	
7	Submain Flush Valve 40mm	Nos.	2	2	2	2	
8	GI Wire 2mm thick	Meter	200	350	800	1400	
9	Submain Line for Flusing 40 mm X 6 kg	Meter	36	42	60	110	
C	Filteration Unit	Nos.	1	1	1	0	
1	Disc filter 25 m3/hr	Nos.	0	0	0	1	
2	Disc filter 40 m3/hr	Nos.	1	1	0	0	
3	Sand filter 10 m3/hr	Nos.	1	1	0	0	
4	Sand filter 25m3/hr	Nos.	0	0	1	0	
5	Sand filter 40 m3/hr	Nos.	0	0	0	1	
6	Manifold GI + GMV	Nos.	1	1	1	1	
7	Ventury Assembly Complete	Nos.	1	1	1	1	
8	Air Release Valve Assembly 1"	Nos.	1	1	1	1	

Check List For Naturally Ventilated For Poly-Houses

FRAME COMPONENTS (GI PIPES)			
Sl.no.	Part Name	Specification	Present or Not
1	Main Column	76 mm OD & 2 mm thick (@ 3.75 kg per meter)	
2	Small column along gable	76 mm OD & 2 mm thick (@ 3.75 kg per meter)	
3	Small Column along gutter	76 mm OD & 2 mm thick (@ 3.75 kg per meter)	
4	Foundation Stub	60 mm OD & 3.0 mm thick (@ 4.20 kg per meter)	
5	Corridor pipe along gable	60 mm OD & 2.0 mm thick (@ 2.85 kg per meter)	
6	Corridor pipe along gutter	60 mm OD & 2.0 mm thick (@ 2.85 kg per meter)	
7	Small bottom chord along gable	60 mm OD & 2.0 mm thick (@ 2.85 kg per meter)	
8	Big Bottom chord	60 mm OD & 2.0 mm thick (@ 2.85 kg per meter)	
9	End Purlin	48 mm OD & 2.0 mm thick (@ 2.3 kg per meter)	
10	First top purlin	48 mm OD & 2.0 mm thick (@ 2.3 kg per meter)	
11	Second top purlin	48 mm OD & 2.0 mm thick (@ 2.3 kg per meter)	
12	4 m gutter purlin	43 mm OD & 2 mm thick (@ 2.10 kg per meter)	
13	6 m gutter purlin	43 mm OD & 2 mm thick (@ 2.10 kg per meter)	

14	Curtain runner	43 mm OD & 2 mm thick (@ 2.10 kg per meter)	
15	Horizontal member	43 mm OD & 2 mm thick (@ 2.10 kg per meter)	
16	Long arc at end	43 mm OD & 2 mm thick (@ 2.10 kg per meter)	
17	Long arc	43 mm OD & 2 mm thick (@ 2.10 kg per meter)	
18	Short arc	43 mm OD & 2 mm thick (@ 2.10 kg per meter)	
19	Knee Bracing and Small Inclined strut	33 mm OD & 2.0 mm thick (@ 1.60 kg per meter)	
20	Big Inclined strut	33 mm OD & 2.0 mm thick (@ 1.60 kg per meter)	
21	Top chord runner in last bay	33 mm OD & 2.0 mm thick (@ 1.60 kg per meter)	
22	Cross Bracing	33 mm OD & 2.0 mm thick (@ 1.60 kg per meter)	
23	Curtain pipe	20/22 mm OD & 2.0 mm thick (@ 1.30 kg per meter)	
24	Curtain pipe handle	20/22 mm OD & 2.0 mm thick (@ 1.30 kg per meter)	
25	Flap control system	GI curtain pipe Guard 20/22 mm OD at all corridor pipes	

FIXTURES AND ACCESSORIES

Sl. No.	Part Name	Specification	Present or Not
1	Angle Bracket	ISA 40 X 40 X 3	
2	Full angle Cleat	ISA 40 X 40 X 3	
3	Half angle Cleat	ISA 40 X 40 X 3	
4	Flat Patti	25 MM X 5 MM	
5	76 ID Full Clamp	40 mm Width & 2 mm thick	
6	76 ID Half Clamp	40 mm Width & 2 mm thick	
7	60 ID Full Clamp	40 mm Width & 2 mm thick	
8	60 ID Half Clamp	40 mm Width & 2 mm thick	
9	43 ID Full Clamp	40 mm Width & 2 mm thick	
10	43 ID Half Clamp	40 mm Width & 2 mm thick	
11	T-Fixtures	33 mm OD & 2.0 mm thick	
12	L-Fixtures	33 mm OD & 2.0 mm thick	
13	Curtain Clamp	40 mm Width	
14	Universal Joint	20 mm sq. bar	
15	Stud Cover	21 mm OD & 2.0 mm thick	
16	Curtain Pipe Insert	21 mm OD & 2.0 mm thick	
17	Self Trapping Screw	20 mm length	
18	Bitumen Washer	3 mm thick	
19	Spring Insert	2.3 mm dia.	
20	Spring Insert (Plating)	2.3 mm dia.	
21	M 10 X 125	10 mm dia.	
22	M 10 X 100	10 mm dia.	
23	M 10 X 90	10 mm dia.	
24	M 10 X 40	10 mm dia.	
25	M 10 Nuts	10 mm dia.	
26	M 10 washers	10 mm dia.	
27	M 8 X 200	8 mm dia.	

28	M 8 X 90	8 mm dia.	
29	M 8 X 65	8 mm dia.	
30	M 8 Nuts	8 mm dia.	
31	M 8 Washers	8 mm dia.	
32	M 6 X 75	6 mm dia.	
33	M 6 X 20	6 mm dia.	
34	M 6 Nuts	6 mm dia.	
35	M 6 washers	6 mm dia.	
36	GI Wire 3 mm trellis wire	3 mm dia.	
37	GI Wire 4 mm trellis supporting wire	4 mm dia.	
38	Pulley with clamp HDPE/MS	40 mm dia.	
39	Rings stainless steel	20 mm dia.	

Entry Room (2 door of 2m x 2m Aluminium and poly carbonate mix)

Sl. No.	Description	Specification	Present or Not
1	Entry room size	4 m x 4 m, 4 m x 3 m, 3 m x 3 m	
2	No of doors	02 (inner door may be of frame stitched with 40 mesh insect net of minimum 50 cm overlapping)	
3	Door size	2 m x 2 m; Door of GI square pipe	
4	Frame of door (ISA four sides to cover the gap below the door)	Galvanized	
5	Half part of door (Downside)	Aluminium sheet	
6	Upper half part of door	Poly carbonate sheet 5 mm thick	
7	Flooring	Brick flooring with Plaster 15 mm thick	

PROFILE AND GUTTER

Sl.o.	Part Name	Specification	Present or Not
1	Profile	Aluminium profile	
2	Gutter, 1-1.5% slope, max. gutter length 100 m.	Plastic drainage sheet (Single piece) supported by gutter purlins	
		GI drainage sheet 1.2 mm supported by gutter purlins (Single piece, if supported on arch)	
		GI drainage sheet 2 mm (if supported on column)	
3	Drainage water pipe	PVC 90/110 mm OD, 4 kg/sq centimetre pressure	
4	Zigzag spring insert	High carbon steel wire for repeated action, 2.3 mm dia	

POLYTHENE

Sr. No.	Description	Specification	Present or Not
1	Multi-layered Polythene from Agripolyane, Essen Multipack Ltd., Ginegar, Politive, PlasticaKritis, Soloplast	<p>Fixed properties - 200 micron thick, UV stabilized, Thermic, diffused, Anti dust, Anti drip.</p> <p>Optional property - IR Reflective Cooling, Anti sulphur for the crops where sulphur consumption is high. For dutch-rose cultivation (As per farmer choice)</p>	

NETS

Sr. No.	Part Name	Specification	Present or Not
1	40/50 mesh insect net to all four sides of below curtains for prevention of insect pests	UV Stabilized, 3.0 m width (height) (for vegetables & flowers) minimum 25 % of floor area. The company stitching below 2.0 to 3.2 m width are not allowed.	
2	40/50/75 per cent shade nets to all four sides below curtains for prevention of insect pests.	UV Stabilized, 3.0 m width (height) (for flowers only) minimum 25 % of floor area	
3	Shade Net (On top underneath polythene)	Non-motorized for all sizes. Gear wire manual operation system with rotary handle having ball bearings or pulleys& nylon ropes. Shade Nets 40/50/75 per cent based on crop requirement of any color.	
4	35% shade net/30 mesh insect net	UV stabilized to be fixed at top vent	

CHECK LIST FOR MI COMPONENT

Sl. No	Description of Items	Unit	Size of Poly House(sqm)				Present or Not
			500	1008	2080	4000	
A	Drip System						
1	Main and Submain Line PVC 63 mm x 4 kg/cm ²	Meter	36	48	70	110	
2	Main Line PVC 75 mm x 4 kg/cm ²	Meter	0	0	0	60	
3	16mm LLDPE Lateral line CL-2	Meter	60	70	130	200	
4	Inline 16mm, 1.3 to 2.4LPH @ 20-40 cm CL2	Meter	260	500	2000	4000	
5	Ball Valve 63 mm (Moulded Seal, Plain)	Nos.	2	2	2	2	
6	Ball Valve 75 mm (Moulded Seal, Plain)	Nos.	0	0	0	1	
7	Submain Flush Valve 40mm	Nos.	2	2	2	2	
8	Submain Line for Flusing 40 mm X 6 kg	Meter	30	40	60	110	
B	Fogging Machine						
1	Main and Sub-main Line PVC 50 mm x 6 kg/cm ²	Meter	36	42	70	110	
2	Main and Sub-main Line PVC 63 mm x 6 kg/cm ²	Meter	0	0	210	60	
3	16mm LLDPE Lateral line	Meter	250	450	900	1900	
4	4 way Fogger Assembly with HP LPD	Nos.	82	125	280	585	
5	Ball Valve 50mm (Teflon Seal, Plain)	Nos.	2	1	1	0	
6	Ball Valve 63mm (Teflon Seal, Plain)	Nos.	0	0	0	1	
7	Submain Flush Valve 40mm	Nos.	2	2	2	2	
8	GI Wire 2mm thick	Meter	200	350	800	1400	
9	Submain Line for Flusing 40 mm X 6 kg	Meter	36	42	60	110	
C	Filteration Unit	Nos.	1	1	1	0	
1	Disc filter 25 m ³ /hr	Nos.	0	0	0	1	
2	Disc filter 40 m ³ /hr	Nos.	1	1	0	0	
3	Sand filter 10 m ³ /hr	Nos.	1	1	0	0	
4	Sand filter 25m ³ /hr	Nos.	0	0	1	0	
5	Sand filter 40 m ³ /hr	Nos.	0	0	0	1	
6	Manifold GI + GMV	Nos.	1	1	1	1	
7	Ventury Assembly Complete	Nos.	1	1	1	1	
8	Air Release Valve Assembly 1"	Nos.	1	1	1	1	

ii	Ration Card (Furnished)	:	Yes/No
25	Aadhar card No. (Furnished), if so Details of Aadhar Card	:	Yes/No No:
26	Bank pass book details	:	
I	Name of the Bank	:	
ii	Branch name – IFSC code	:	
iii	Account Number	:	
iv	First page of bank pass book (enclosed)	:	Yes/No
27	Whether subsidy availed under this component Yes / No	:	Yes/No
(a)	If Yes (furnish following details)		
i	Type of structure Poly house / Shadenet house done	:	
li	Area (Sq.Mt)	:	
iii	Year of installation	:	
iv	Subsidy amount availed & Present Status	:	
v	Subsidy sanctioned by Department	:	(indicate name of the Department)
vi	Name of the standard & specified firm for construction of Poly house / Shadenet house	:	Name: Address: Contact No:
vii	Estimates given by firm for new constructions	:	Rs.
Viii	Subsidy is allowed as per Govt. norms	:	Rs.
ix	Non subsidy amount to be born by farmer	:	Rs.
X	Design of poly house given (enclosed)	:	Yes/No
28	Whether the farmers has Participated in training if any earlier on Protected cultivation	:	Yes / NO
	IF Yes further details		
i	No. of days trained	:	
ii	Name of the place where he got trained	:	
29	In case of loany cases	:	Bank consent is to be furnished along with list of documents (enclosed)
i	Name of the Bank	:	
ii	Details of bank/ Branch Name	:	
30	Preliminary inspection report submitted by Horticulture officer and satisfied all requirements, required for taking up Poly /Shade net Houses	:	Yes/No

Declaration

I, _____

declare that the particulars furnished above are true to the best of my knowledge and I promise that the benefit obtained from State Horticulture Mission will be used for the purpose for which it is given and in case of misuse I am liable for any action deemed to be fit by Govt. of Andhra Pradesh., including recovery of the subsidy amount with 12% interest to the Government.

Enclosures:

1. Pattadar Pass Book
2. Detailed Project Estimate
3. Soil & Water Analysis
4. Affidavit

Signature of the Farmer / Entrepreneur.

Recommendations of the MI Engineer : _____

Signature of the MI Engineer

Signature of the Horticulture Officer

Signature of the Assistant Director of Horticulture

Signature of the District Collector

FORMAT – II
AFFIDAVIT (Rs. 100/- Stamp Paper)

I / We _____ (Name of the Promoter / Director) son of _____ Father's Name) resident of _____ (residence address) do hereby solemnly affirm and declare here under.

1) That I am the director of _____,(name of the beneficiary) having its registered office at _____, (office address of beneficiary) and am fully aware of the facts relating to the setting up the Polyhouse at _____ (location of the Polyhouse) for _____ (activities to be undertaken by Polyhouse) and the application made to MIDH for availing assistance under Developmental Schemes _____

2) That the terms and conditions of the scheme of MIDH under which an application has been made by the applicant have been properly read and understood by me and I affirm that the Polyhouse / proposal / scheme comply with the terms and condition of MIDH and the application has been made in the correct applicable scheme.

3) That the proposed activities to be undertaken by the Polyhouse / proposal / scheme are covered under the above scheme of MIDH and no part of the scheme / infrastructure of the Polyhouse is designed or assigned to be used for any activity other than the activities specified in the application at present or in the near future.

4) That the information provided in the application for availing assistance under developmental schemes – _____ is true and correct to the best of my knowledge and belief. The estimates of the cost of Polyhouse / proposal / scheme, financial viability and operating results have been worked out / computed as per the rule and generally accepted principles and norms in this regard.

5) No Subsidy / grant – in – aid has been availed by the promoters / directors / partners / proprietors for this new project and component thereof from central Govt. or any its agencies.

6) I / We also solemnly affirm that the proposed activity in the application for availing assistance under development Schemes _____ is a completely new activity and not a pre – existing activity or any Component thereof and further I assure that the unit will be utilized for the same activity for which the assistance is sought from the MIDH through State Horticulture Mission of Andhra Pradesh for the economic period of 15 years. In case, if the unit is misused I am liable for any action deemed to be fit by the Govt. of Andhra Pradesh including recovery of the assistance amount extended. The information furnished in the application dated _____ is

true to the best of my knowledge and belief and nothing material has been concealed.

7) In case of concealment of any facts in this regard, the MIDH would have right to cancel my application out right at any stage.

8) I will display a sign board depicting "Department of Horticulture" (MIDH, Assisted Polyhouse) with logo of NHM.

9) The release of subsidy is subject to actual expenditure, receipts, inspection, MIDH norms etc., In case of any discrepancy / dispute the decision of the Mission Director & Director of Horticulture is final.

10) I agree and resolve that the department reserves the right to modify, add or delete any term/ condition without assigning any reason thereof and shall also have right to pre and post inspect / monitor the Polyhouse and verify the related records at any time during the economic life of the Polyhouse by the concerned officers.

DEPONENT VERIFICATION

Verified on solemn affirmation at _____ that the content of the above affidavit are true to the best of my knowledge and belief and nothing material has been concealed.

DEPONENT / COMPETENT AUTHORITY

(To be signed by Notary with seal)

MULCHING

Terms & Conditions:

1. Farmers once availed subsidy is not eligible.
2. 50% cost limited with maximum limit is 2 ha / beneficiary.
3. The selected beneficiaries should be given training programme on concept of Mulching, benefits of mulching, selection of mulch sheet, quantity required and gauge of mulch sheet.
4. **Farmers will be given choice to procure the mulching sheet of their own choice by incurring full cost of mulching material. After verification of the vouchers and physical verification in the field, the assistance will be online transferred to the farmers account as per the eligibility and cost norms.**
5. A display board depicting "Department of Horticulture" (MIDH, Assisted Polyhouse with logo of MIDH).
6. Only Horticulture Crops are eligible for assistance.
7. DMC approval to be obtained for identified beneficiaries and for final release of assistance.
8. The scheme shall be implemented for promoting intensive cultivation of vegetables in a cluster mode by giving due priority to SF / MF and SC & ST.
9. Documentation with photo graphs after laying out of mulch.
10. Application registration in Hort net should be done by the concerned HO.
11. Uploading the bills and field photos in hortnet should be done by the HO/ADH for release of subsidy to the beneficiary through online transfer.

**WORK FLOW & CHECK LIST FOR DOCUMENTS TO BE SUBMITTED FOR
MULCHING**

Sl.No.	Description	Documents to be submitted by / Action to be taken
1	Application Form –Format-I	Farmer
2	Pattadar Pass Book Copy	
3	Application registration in Hortnet	HO /Farmer
4	District Mission Committee Approval	ADH
5	Organization of Training Programme to identified beneficiaries	HO / ADH
6	Issue of Administrative Sanction	ADH
7	Laying out of Mulching	Farmer
8	Submission of bills and raising of invoice	Farmer / HO
9	Constitution of Joint Inspection Committee	ADH
10	Joint Inspection Report – Format –VI	Committee Members
11	Obtaining DMC approval for sanction and release of assistance	ADH
12	Uploading the bills and field photos in hortnet for release of subsidy	HO/ADH
13	Online transfer of assistance to beneficiary	ADH

Format – VI

FORMAT TO CONDUCT FINAL AND JOINT INSPECTION OF MULCHING BY THE COMMITTEE UNDER PROTECTED CULTIVATION.										
Sl.No.	Name of the Farmer & Address	Category	Village	Mandal	Survey No.	Area in Ha.	Crop	Expenditure incurred by the farmer (Rs.)	Subsidy recommended by the committee (Rs.)	Remarks
1	2	3	4	5	6	7	8	9	10	11

Certificates:

- 1) This is to certify that the above farmers have laid Mulch Sheet as per the norms of MIDH.
- 2) This is to certify that all the original purchase bills of the items for expenditure incurred as mentioned in column no. 9 have been verified and found correct.
- 3) This is to certify that the above farmers are eligible to avail subsidy of Rs. _____/- as mentioned in column no. 10.
- 4) The subsidy amount of Rs. _____/- may be released

HO

ADH