

MISSION FOR INTEGRATED DEVELOPMENT OF HORTICULTURE

IMPLEMENTATION GUIDELINES - 2016-17

GUIDELINES FOR PROVIDING ASSISTANCE UNDER MIDH – 2016-17

The following Guidelines for providing subsidy on components under various schemes must be followed in letter and spirit:

A. Norms & Pattern of Assistance and Popularization of Scheme

1. Norms would be as per the GOI norms fixed for the year 2014-15 and shall be applicable in subsequent years unless modified. The guidelines are described in subsequent pages of this booklet.
2. The Commissioner of Horticulture and Mission Director shall make necessary tie-ups arrangements every year and empanel reputed firms/suppliers for supply/sale of planting material and inputs / materials under above schemes strictly as per the guidelines issued by Govt. of India from time to time.
3. Component is to be implemented as per the rates circulated, firms empanelled and instructions issued by Commissioner of Horticulture and Mission Director, NHM from time to time.
4. The District-level targets communicated by the O/o Commissioner of Horticulture shall further be divided HO wise & Mandal wise by the DDH in consultation with ADHs and HOs and taking into view the potential.
5. Schemes shall be popularized mainly through existing extension network of the department and other resources available to them. Extensive publicity shall be given for awareness of the programmes

B. Eligibility Criteria for availing assistance

1. Only those Farmer &/or entrepreneur having land ownership in Telangana State shall be eligible for availing assistance under the schemes. In case of non - ownership of land the eligibility be guided as below:
 - i. For non-project based activities and seasonal/annual crops: registered lease agreement between the parties for twenty years for orchards.
 - ii. For project based activities: registered lease agreement between the parties for twelve years for poly houses.

2. Assistance shall be available only for Horticultural crops as per the GOI norms and guidelines
3. Farmers can procure material from any Govt. Farms / Research Stations / accredited nurseries choice as per lists communicated from time to time from head office.
4. Subsidy will be admissible both in loan and non-loanee cases.
5. Subsidy in loan cases would be released to the beneficiary account or loan account as the case may be.
6. Subsidy on plantation/cultivation would be admissible only to the beneficiary having an assured source of irrigation (tube-well/water tank supported with engine).

C. Procedure for availing assistance

1. The farmer-applicant will submit application to the DDH in the prescribed format.
 - i. **Form-1 in case of non-project based activities**
Beneficiary can register online in Hortnet or deposit the application to DDH office or through HO's to ADHs or DDHs office along with required documents.
 - ii. **Form-2 in case of project based activities**
Applications/ Project proposals are to be sent to Head office with the approval of DMC, after approval of competent authority i.e. SLEC, Telangana State, they are forwarded to GoI for further approval as per delegation of powers communicated by GoI.
2. **Checklist & Documents** to be enclosed for Project Based Proposals annexed at the respective component guidelines.

D. Record of Applications and dispersals.

1. The details of beneficiary shall be entered in HORTNET and where no online system is in operation, the application so received from the farmer-applicant shall be immediately entered by the concerned officer. Further, he shall also issue a receipt to the applicant indicating the Serial Number / Hortnet ID and date of receipt of the application.
2. The HOs will verify the application form submitted by the farmer-applicant and forward it to the DDH of the concerned district through ADH along with his recommendation within 3 days of the receipt thereof. HO will ensure that proper checklists and documents are enclosed as prescribed under the guidelines.
3. In case of more applicants "first come first serve" policy will be adopted. HO, ADH and DDH will keep proper record of applications.
4. The DDH will get the applications registered from ADH so forwarded to him in a computer, as well maintain hard copies of the same, only after

proper scrutiny that-


- i. The farmer-applicant belongs to the concerned district.
 - ii. The farmer-applicant is not being given the benefit for the second time for the same component. The certificate to this effect will also be given by the HO.
 - iii. Any farmer-applicant who has been benefitted under any scheme since 2005-06 shall not be eligible for the same component again subject to the maximum limit prescribed under the guidelines.
5. ADH shall make a seniority list for his/ her jurisdiction. After authentication by the DDH, the seniority list shall be maintained in the record and shall be duly published on the Notice Board. The register or computerized seniority would contain the details as Sr No., Name of farmer, father's name, village, block, date of submission of application, total area to be covered under scheme and signature of farmers etc.
6. DDH will accord the approval of case within 7 days of receipt of case from ADH office.
7. Roster register will be maintained by concerned District Horticulture Officer. He will issue the slip to the farmer mentioning his seniority number after obtaining signature of the concerned farmer in roster/ seniority register.

E. Implementation including Physical Verification

1. In case of component viz.: area expansion, vermi-beds, poly houses, farm mechanization, post-harvest units and other physical structures, proper verification shall be done by the HO, ADH and DDH concerned in the prescribed format. The physical verification shall be done as per the guidelines prescribed and specifications issued by the SHM Cell, Head office. The physical verification report will be done within 5 days of the work completion if done alone by HO; within 15 days if done by team members.
2. In case of purchase of inputs the following guidelines should be followed:
 - i. Farmers are free to purchase planting material and inputs from any of the empanelled / registered firms or accredited nurseries by paying the full amount directly to the firm and take a bill for that purchase.
 - ii. Farmers are free to choose the farm equipments from empanelled firms under MIDH as per conditions prescribed under the specifications.
 - iii. The farmer-applicant will resubmit the original bill back to the DDH as a proof of the purchase of the component/input. The ADH will thereafter issue a receipt for the original bill to the farmer-applicant.
 - iv. The physical verification of the material/input purchased will be carried by the team of HEO/HO/ADH in the prescribed format.

- v. The physical verification report should reach the office of DDH within 5 days of purchase.
- vi. Display board depicting details of the Scheme (as per applicability) in Telugu should be fixed at the Site with size 25 ft X 10 ft for PHM & PC components and 4 ft X 2 ft for other components.

Sample Display Board:

 బాగివానీ మిషన్ Horticulture Mission	సమీకృత ఉద్యాన అభివృద్ధి మిషన్ తెలంగాణ రాష్ట్ర ప్రభుత్వం ఉద్యాన శాఖ
పథకం వివరాలు	
యజమాని పేరు :	గ్రామము :
మండలము :	జిల్లా :
సెల్ నెం :	విస్తీర్ణం / నెం. :
అనుమతి పొందిన సంవత్సరం :	
మొత్తము ప్రాజెక్టు విలువ: లక్షలలో	} (in case of PHM & PC)
ఋణ సౌకర్యం పొందిన బ్యాంకు మరియు శాఖ వివరములు :	
ఉద్యాన శాఖ ద్వారా రాయితీ పొందిన వివరములు (లక్షలలో): * Mandatory	

F. Release of Assistance

1. **Criteria for release:** Physical inspection as described below must be done within 15 days of work completion:
 - i. In case of non-project based activities: 100% verification by the HO in all the cases in his jurisdiction, 50% verification by ADH concerned in his jurisdiction and at least 20% verification of total cases by DDH.
 - ii. In case of farm ponds: the work executed shall be duly verified by the committee so constituted.
 - iii. In case of project based activities: Work done shall be duly verified and inspection report submitted by the team comprising of Officer concerned from Head Quarter, DDH of concerned district, ADH, HO concerned, any technical expert in the field of component and representative from concerned bank (if credit linked) as suggested in the check lists/or as communicated by Head office from time to time.
 - iv. Stage wise digital photos to be taken before work, at the time of work and after completion of work.

2. **Release:**

- i. Subsidy is to be released as per norms fixed and guidelines prescribed
- ii. Subsidy proposal to be submitted within 7 days of physical inspection report duly obtaining DMC approval.
- iii. Subsidy is to be released per ha or per unit basis as the case may be. In cases where assistance is being sought on lesser or more area than that of one ha or one unit then subsidy be released on pro-rata basis subject to maximum limit prescribed in guidelines under MIDH as per the net area sown / planted.
- iv. Determination of per ha or unit can be ascertained as prescribed against individual component in the guidelines.
- v. Subsidy be released directly to the beneficiary as direct assistance or as inputs as per the instructions issued from Mission Director time to time for individual component.
 - a. For direct release of assistance to the beneficiary, payment will be released through online to the beneficiary only.
 - b. No payment will be released as cash/ cheque /D.D by taking signature or thumb impression in register.
 - c. All the assistance released must be entered in proper register and in cash book.
 - d. All the releases to be completed within a weeks time after receipt of funds from Head office.

G. Reporting:

- i. DDH will maintain the subsidy account and send the list to SHM Cell at Head office monthly on or before 3rd of every month in prescribed format.
 - ii. DDH shall maintain the list of beneficiaries through HORTNET and the same shall be sent to SHM Cell at Head office on or before 3rd of every month.
 - iii. DDH shall send the physical and financial progress of his/her district monthly in prescribed format on or before 3rd of every month.
3. The **DDH will be the controlling officer** for successful implementation of the Scheme (s) and co-ordination of all the schemes under which various components are being implemented as per the scheme guidelines. He / She will also ensure that the scheme is duly publicized in the district immediately after the targets are allotted.
- i. Wide publicity should be given for the target allotted to the districts on all components.
 - ii. Tours to be conducted for creating more awareness in the districts.
 - iii. The selected farmers under all components will be given prior training at HTI, Hyderabad/ at the District level.
 - iv. Only the farmers willing to take-up training on particular schemes should be selected for subsidy programmes.

NON-NEGOTIABLES FOR IMPLEMENTATION OF MIDH SCHEMES
2016– 17

1. Identification of beneficiaries should be done in Grama Sabha through selection committee as per guidelines given under each scheme.
2. Identification of beneficiaries as per targets allotted to be completed as per season only.
3. It should be ensured that **15.44 % and 9.34 % funds are to be targeted for SC and ST farmers respectively** and **33% of budget allocation** should be earmarked exclusively **for women** beneficiaries/farmers.
4. Only Cluster approach will be adopted with a minimum area of 10 Ha in each cluster for one crop for easy monitoring.
5. After identification of beneficiaries under each scheme training to be organized at field level.
6. Approval of District Mission Committee (DMC) is mandatory for implementing the schemes, issue of Administrative sanctions and release for all the SHM schemes under MIDH.DDH is the district head who is responsible for obtaining DMC approval.
7. **Filing of applications in Hortnet is mandatory for all components for release of funds. Aadhar card No and Mobile No. should compulsorily be entered.**
8. The plantation should be taken up in cluster mode only, assured irrigation source & integration with Micro Irrigation is non-negotiable.
9. Plant material for Area expansion programme has to be procured on priority from the accredited Govt. nurseries/ SAUs / ICAR institutes.
10. Awareness programmes should be organized under all components, specifically, Post harvest management.
11. The Projects proposed under Post Harvest Management should be linked up with farmers, corporate retail outlets, processing units and exporters so that the losses / wastage of the horticulture produce are minimized and all the details shall be incorporated in the project proposals.
12. Proposal for project based components should be sent after approval of DMC and such proposals should be sent to Head office as per timeline indicated.
13. To ensure transparency separate account should be maintained at District Level for collection of non subsidy.
14. All the identified beneficiaries should have a valid bank account. Otherwise they have to open a bank account. The bank account number, IFSC code etc have to be verified by the ADH/HO concerned personally before updating in Hortnet.

15. ADHs should ensure the bills produced by the beneficiaries are from the registered firms/companies, before forwarding release proposal to head office through DDH.
16. The assistance will be given taking family as a unit.
17. It is the responsibility of DDH to update the progress reports on 3rd of every month. It is compulsory.
18. Bounded hard copies of all the schemes implemented in the districts along with the photographs have to be kept in office. Photographs have to be uploaded in website.
19. It is mandatory to submit the success stories / case studies of each year along with photographs.
20. Bi monthly district monitoring committee meeting to be convened under the chairman ship of District Collector with all the members.

GUIDELINES FOR SELECTION OF BENEFICIARIES FOR DIFFERENT SCHEMES BEING IMPLEMENTED UNDER MIDH 2016-17

GENERAL: (Common to all components and activities)

1. Potential Villages are to be identified (species & crop wise) in cluster mode with convergence of allied Departments.
2. Wide publicity to be given in the above identified locations / areas on benefits / facilities being provided by the department through local news papers, electronic media, pamphlets, display on the notice board of Z.P.Ps / M.P.Ps / Village Panchayats.
3. Approved schemes, assistance provided and locations identified are to be clearly explained in the meeting of DRC / Z.P.Ps / M.P.Ps and other coordination meetings with allied departments.
4. Success stories to be sent to DPRO for publicity.
5. The selected farmers shall be explained the package of practices to be adopted for the species selected under all schemes with literature.
6. Due preference shall be given to SF / MF, SCs, STs and Women as per the norms in selection process.
7. During selection care should be taken to ensure that amounts indicated in the AAP under SCSP & TSP are to be allotted to SC/ST farmers only and 33% of the budget allocation should be earmarked exclusively for women beneficiaries. No deviation is permitted.
8. The HOs / ADHs shall hold village wise meetings involving progressive farmers, Gram Sarpanch and Village Secretary and finalize the list based on the norms prescribed for different schemes implemented in the districts.
9. After selection and verification of the required documents the list of beneficiaries shall be placed before DMC for approval. After approval

- by the DMC, administrative sanction to the beneficiary shall be issued through the District Collector only.
10. DMC approval has to be obtained by the District Committee for Additions /Deletions to the approved beneficiary list.
 11. DMC meeting should be organized as frequently as possible (GO Ms No.1, dt: 07.06.2014 of the Agri & Co-op Dept, Govt. of Telangana) and minutes to be sent to SHM for record purpose, release of funds etc.,
 12. **Filing of Applications through Hortnet is mandatory for all Components.**(Stage wise procedure is give below)
 - a) The Horticulture Officers (Extension)/ Horticulture Extension Officers are responsible for filing of applications pertaining to their respective jurisdiction and completion of the process till acceptance stage in Hortnet.
 - b) It is the responsibility of the ADH concerned to verify all the details filled in by the HOs and approve the eligible applications without any wrong entries and forward to DDH.
 - c) After approval by the DDH, the webpage pertaining to the list of applicants for obtaining Administrative sanction should be sent to the District Mission Committee for approval. And ink signed copy of the webpage should be sent to Head office along with minutes of DMC approval. After DMC approval Administrative sanction proceedings should be issued to the concerned, a copy of the proceeding in Telugu should be sent to the farmer with the unit cost subsidy details etc.,
 - d) Soon after execution / grounding of the scheme , the real time photographs of the scheme implemented in three stages i.e., before execution, during execution & after execution should be uploaded in the Hortnet.
 - e) After receipt of real time photographs on the Hortnet, the webpage pertaining to the list of beneficiaries for release of eligible subsidy should be submitted to DMC for approval. And ink signed copy of the webpage should be sent to Head office for release of funds.

1. Plantation Infrastructure Development

A. Tissue Culture Unit

Objective:

- To encourage production and supply of good quality planting material in private sector by setting up TC lab and to generate employment.
- Sanction of TC unit as per the norms of MIDH under Private Sector, will be considered by State SLEC meeting.

i) Setting up of new TC Units.

Total Unit Cost: Rs. 250.00 lakhs/unit

S.No	Item	Max permissible Cost	Pattern of Assistance
i	Setting up of new TC Units	Rs.250.00 lakhs/Unit	100% Unit cost to public sector and in case of private sector, credit linked back ended subsidy @ 40% of cost. Each TC unit will produce a minimum of 25 lakh plants/ year of mandated crops, duly hardened for which protocols are available for commercial use.

- 100% of total cost to public sector and in case of private sector, credit linked back ended subsidy @ **40%** of cost i.e. Rs. 100.00 lakhs/unit.

List of Documents to be submitted by the applicants for Establishment of TC Unit

1	Application form of the applicant/promoters
2	Basic data sheet with complete technical specifications.
3	Detailed project report as per MIDH guidelines.
4	Partnership deed
5	Firm Registration certificate/certificate of Incorporation
6	Bank sanction letter along with appraisal report.
7	Approval from Gram Panchayat/Municipality /corporation.
8	Approval from Pollution Control Board Acknowledgement
9	SSI Registration certificate
10	Fire Department approval with drawings
11	Pan card taken on company name (Xerox copy).

12	Electricity approval
13	KYC documents of all the partners
14	VAT/CST Registrations.
15	Land conversion. (for one acre only)
16	DHM approval (District Collector)
17	Affidavit
18	Land documents (sale deed / Lease deed Agreement) for 10 years along with certificate issued by Tahsildar / Panchayat Secretary for proof of land
19	Land records (Pattadar pass book / pahani given by MRO).
20	The proposed infrastructure for obtaining the subsidy along with the estimates as per the guidelines (Project).
21	Estimates of civil structures – Prepared by any State Government Engineering Depts.
22	Soil Testing report
23	Water Testing report

- The beneficiary has to establish the proposed infrastructure with total cost of Rs.250.00 lakhs as per the Government of India operational guidelines of MIDH.
- The beneficiary has to produce the standard quality plant material.
- The beneficiaries shall apply to ADHs in the prescribed format along with the Pattadar Passbook or Lease Agreement document executed for 10 years along with the certificate issued by Tahsildar / Panchayat Secretary for proof of land.
- The beneficiary shall also enclose the water & soil analysis report from the approved lab.
- The beneficiary shall also enclose the bank consent for release of loan amount for establishment of nursery under credit linked back-ended subsidy.
- After the inspection of the site by the concerned H.O. and ADH, the proposal with the recommendations will be placed before the District Mission Committee (DMC) for sanction of the proposals for Establishment of TC Lab.
- After consideration by the DMC approval the same will be forwarded to O/o State Horticulture Mission along with bank consent letter.
- The same proposal will be placed before the State Level Executive Committee for sanction of the proposals.

- The District officer has to forward 4 copies of DPR (Detailed project report) (1 copy with concerned District officer, 3 copies to be forwarded to Head office) consisting of the information regarding land particulars, electricity connection, civil structure estimations, bank consent & sanction letter etc., and enclosing the documents as per the checklist.
- After consideration by the State Level Executive Committee of State Horticulture Mission, the same will be sent to NHM, for approval in Empowered Committee Meeting, New Delhi.
- After approval by the EC meeting administrative sanction orders will be communicated to the beneficiary / District Officer concerned and to the Bank which is providing the loan amount i.e. 50% of project cost.
- The subsidy amount will be released in two equal installments i.e., 1st installment will be released after completion of 50% of the works and 2nd installment will be released after establishment of TC Lab and after physical verification of the TC lab by the District Officer / Technical Teams.
- Stage wise photos should be enclosed along with the proposals for release of subsidy.



Tissue Culture Unit

B. Establishment of Seed infrastructure:

Objective:

To handle, process, packing, storage etc., of seeds meant for use as seed material for cultivation of horticulture crops.

S.No	Item	Max permissible Cost	Pattern of Assistance
1	Seed infrastructure in private sector	Rs.200.00 lakhs/project	100% Unit cost amount to public sector and in case of private sector, credit linked back subsidy @ 50% of cost project.

- 100% of cost to public sector and in case of private sector, credit linked back subsidy @ 50% of cost of project i.e., Rs. 100.00 lakhs.

List of Documents to be submitted by the applicants for Establishment of Seed Processing Unit.

1	Application form of the applicant/promoters
2	Basic data sheet with complete technical specifications.
3	Detailed project report as per MIDH guidelines.
4	Partnership deed
5	Firm Registration certificate/certificate of Incorporation
6	Bank sanction letter along with appraisal report.
7	Approval from Gram Panchayat/Municipality /corporation.
8	Approval from Pollution Control Board Acknowledgement
9	SSI Registration certificate
10	Fire Department approval with drawings
11	Pan card taken on company name (Xerox copy).
12	Electricity approval
13	KYC documents of all the partners
14	VAT/CST Registrations.
15	Land conversion. (for one acre only)
16	DHM approval (District Collector)
17	Affidavit
18	Land documents (sale deed / Lease deed Agreement) for 10 years along with certificate issued by Tahsildar / Panchayat Secretary for proof of land

19	Land records (Pattadar pass book / pahani given by MRO).
20	The proposed infrastructure for obtaining the subsidy along with the estimates as per the guidelines (Project).
21	Estimates of civil structures – Prepared by any State Government Engineering Depts.
22	Soil Testing report
23	Water Testing report
24	Crops and varieties proposed to be taken up under Seeds Infrastructure Unit
25	Whether the seeds are Open Pollinated/Hybrid/ Breeder/F1/F2
26	Sources of Seed/line & Name of Certification Agency

- The beneficiary has to establish the proposed infrastructure with total cost of Rs.200.00 lakhs as per the Government of India operational guidelines of MIDH.
- The beneficiary has to produce the standard quality plant material.
- The beneficiaries shall apply to ADHs in the prescribed format along with the Pattadar Passbook or Lease Agreement document executed for 10 years along with the certificate issued by Tahsildar / Panchayat Secretary for proof of land.
- The beneficiary shall also enclose the water & soil analysis report from the approved lab.
- The beneficiary shall also enclose the bank consent for release of loan amount for establishment of nursery under credit linked back-ended subsidy.
- After the inspection of the site by the concerned H.O. and ADH, the proposal with the recommendations will be placed before the District Mission Committee (DMC) for sanction of the proposals for Establishment of TC Lab.
- After consideration by the DMC approval the same will be forwarded to O/o State Horticulture Mission along with bank consent letter.
- The same proposal will be placed before the State Level Executive Committee for sanction of the proposals.
- The District officer has to forward 4 copies of DPR (Detailed project report) (1 copy with concerned District officer, 3 copies to be forwarded to Head office) consisting of the information regarding land particulars, electricity connection, civil structure estimations, bank consent & sanction letter etc., and enclosing the documents as per the checklist.

- After consideration by the State Level Executive Committee of State Horticulture Mission, the same will be sent to NHM, for approval in Empowered Committee Meeting, New Delhi.
- After approval by the EC meeting administrative sanction orders will be communicated to the beneficiary / District Officer concerned and to the Bank which is providing the loan amount i.e. 50% of project cost.
- The subsidy amount will be released in two equal installments i.e., 1st installment will be released after completion of 50% of the works and 2nd installment will be released after establishment of TC Lab and after physical verification of the TC lab by the District Officer / Technical Teams.
- Stage wise photos should be enclosed along with the proposals for release of subsidy.



Seed infrastructure Unit

2. Establishment of New Gardens

Objective:

- ✓ To bring additional areas under identified Fruit crops (Perennial) with improved varieties / hybrids.

Non-negotiable under SHM 2016-17 for the Component Area Expansion

1. District Horticulture Mission should ensure that Area Expansion (Perennial fruits / Non-perennial fruits) programme to be implemented on cluster approach in a contiguous area, instead of doing it in scattered & unplanned manner.
2. Minimum area per each block should be above 10 Ha for better monitoring.
3. New clusters & new beneficiaries shall be selected under these programmes as per area specific and climate specific crops.
4. The assistance under these components shall not be extended to the beneficiaries already covered during previous years. The ADHs & HOs should be cautious while selecting the beneficiaries.
5. H.E.O./Horticulture Officers of the concerned area should obtain applications from identified beneficiaries along with photograph of self and without plantation in the existing format prescribed.
6. The farmers who are having assured source of irrigation and power supply are only selected & Micro irrigation should be integrated for better survival of plantations.
7. The farmers can apply in person or register online directly through Hortnet .
8. Land holding of the farmers should be certified by Horticulture Officers on the basis of the original Pattadar pass book or Adangal signed by MRO or computer pahani obtained from MeeSeva.
9. The HO concerned should maintain Register for recording the details of identified beneficiaries i.e. land details/crop/variety/source of plant material/ date of planting /inputs supplied/non subsidy particulars/Bank account No. and IFSC code etc.
10. ADH shall organize training programmes to the beneficiaries identified under Establishment of New Gardens, on all aspects of Package of practices followed for specific crops.
11. HO should inspect 100% fields identified under his jurisdiction before sanction of the scheme and he himself should satisfy on soil suitability and availability of water and authorized power connection before recommending. Whereas, ADH should inspect a minimum of 25% of the identified or sanctioned fields under his/her jurisdiction before forwarding application to DDH for sanction.

12. Selection, documentation and Hortnet registration process should be completed in a time bound manner and seasonality must be adhered to, for plantation & utilization of inputs at any cost.
13. Before permitting the beneficiaries to start land preparation, pitting etc, the DDH should ensure to take approval of DMC for the selected beneficiaries.
14. DDH should ensure proper documentation and registration in Hortnet of various stages of implementation (viz., land preparation / pitting, planting & installation of micro irrigation system etc. along with necessary photographs) by the HOs concerned.
15. Intercropping shall be encouraged in all perennial orchards with region specific intercrop as they contribute to soil fertility and income during gestation period.
16. After the completion of plantation, H.E.O/HO concerned should inspect the fields and collect all the required bills / invoices / vouchers from the concerned farmers, and upload in the Hortnet after proper scrutiny.
17. All such uploaded bills should be forwarded to the DDH login. In turn the DDH will compile all the bills in his login and obtain financial approval of DMC. After approval of DMC the same may be forwarded to ED login for release of payment.
18. The District officers shall send the beneficiary list along with DMC approval to the Head office for release of Subsidy.
19. The assistance will be provided to the beneficiaries / agency / firm after filing of all mandatory details in HORTNET.

A. Supply of Plant Material:

1. Priority should be given for supply of plant material from tied-up Horticultural farms / Research stations of PJTS Agril. University / SKLTS horti. University.
2. However, farmers shall be permitted to purchase plant material from private nurseries under following circumstances.
 - ✓ Where ever farmer's choice variety is not available in tied-up Horticultural farms / Research stations.
 - ✓ In cases where short fall of plant material is identified in tied-up nurseries
 - ✓ In case of crops for which tied-up arrangement is not made.
3. In cases when plant material is supplied from Department Horticultural farms, the assistance amount towards plant material shall be directly released to the Horticultural farms by the DDHs duly obtaining necessary bills/invoices from the farm in-charge.
4. In cases when plant material is purchased by the farmers from Research stations or from Pvt. Nurseries, the DDH/ADH shall release the plant material assistance to the farmers as per the

recommendation and certification of HO concerned on bills/invoices submitted by the farmers.

5. Amount shall not be paid to the private nurseries directly.

B. Inputs like Vermicompost, FYM, Irrigation, Inter crop, Labour Charges,etc.,

Assistance pertaining to Vermicompost, FYM, irrigation, inter crop, labour charges, fertilizers (organic and inorganic) and other inputs like bio fertilizer, bio-pesticides, PP chemicals, Micro nutrients etc., shall be given to the farmers in the form of cash through online transfer into farmers Account.



AE-Pomegranate with Drip & Mulching



AE -Mango UHD with Mulching & Drip

**Pattern of Assistance & Input Package for crops covered
under Area Expansion**

i. MANGO (5M x 5M)

No. of Plants per Ha. 400

Variety: Himayath, Dasher, Kesar

A.PATTERN OF ASSISTANCE FOR MANGO (5 m x 5m) FOR 1 HA						
Sl. No.	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2016-17)	2nd Year (2017-18)	3rd year (2018-19)	
1	Plant Material (@Rs25/- per plant)	13500	4000	1000	400	5400
2	Inputs					
i	FYM	7500	1500	750	750	3000
ii	Neem Cake / Vermicompost	4200	790	420	390	1600
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	9000	1440	900	1260	3600
iv	PP Chemicals/ Bio pesticides	6000	1710	210	480	2400
v	Implements (Secateurs, Spade, Pick axe)	800	400	0	0	400
Total of Inputs		27500	5840	2280	2880	11000
Total (Plant Material + Inputs)		41000	9840	3280	3280	16400

B.INPUT PACKAGE FOR MANGO (5M x 5M) PER ACRE.						
Spacing: 5m X 5m			No. of plants per Acre: 160			
Sl.No.	Inputs	Unit	Pkg. size	1st year	2nd year	3rd year
I	Organic Manures					
	Farm Yard Manure	Tones		4	2	2
	Vermicompost / Neem Cake	Kgs	40 Kg	800	480	640
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	400	160	240
	Urea	Kgs	50 Kg	32	64	96
	M.O.P.	Kgs	50 Kg	25	48	73
III	Bio Fertilizers					
	P.S.B.	Kgs	500 gr	8	8	8
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	8	13	17
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	3	3	3
	Quinolpos 25% EC	Ltrs	500 ml	2	2	2
	C.O.C. 50% WP/ Folidol Dust	Kgs	500 gr	1	1	1
	Sticking Agent	Ltrs	500 ml	2	2	2
VI	Bio Pesticides					
	<i>T. viride</i> / <i>T.harzianaum</i> / <i>Pseudomonas florescence</i> 1x10 ¹⁰ cfu/gm	Kgs	500 gr	8	8	8

ii. GUAVA 3M X 3M:
No. of Plants per Ha. 1111

A. PATTERN OF ASSISTANCE FOR GUAVA 3M X 3M FOR 1 HA						
Sl. No	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2016-17)	2nd Year (2017-18)	3rd year (2018-19)	
1	Plant Material (@ Rs.20/- per plant)	29980	8888	2216	888	11992
2	Inputs					
i	FYM	15627	2852	1080	2240	6172
ii	Neem Cake/ Vermicompost	8770	2200	690	618	3508
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	10600	2400	800	1040	4240
iv	PP Chemicals/ Bio pesticides	7550	860	1080	1080	3020
v	Implements (Secateurs, Spade, Pick axe)	800	400	0	0	400
Sub-Total		43347	8712	3650	4978	17340
Total (Plant Material + Inputs)		73327	17600	5866	5866	29332

A. INPUT PACKAGE FOR GUAVA 3M X 3M PER ACRE						
Spacing 3 m X 3 m		No. of Plants per Acre: 444				
Sl. No.	Inputs	Unit	Pkg. size	1st year	2nd year	3rd year
I	Organic Manures					
	Farm Yard Manure	Tones		3	2	3
	Vermi-compost	Kgs	40 Kg	640	320	640
II	Inorganic Fertilizers					
	S.S.P	Kgs	50 Kg	320	118	236
	Urea	Kgs	50 Kg	0	84	167
	M.O.P	Kgs	50 Kg	0	36	72
	19-19-19	Kgs	2 Kg	3	4	6
III	Bio-Fertilizers					
	P.S.B	Kgs	500 gr	3	3	3
	Azospirillum	Kgs	500 gr	3	3	3
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	3	4	6
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	1	2	2
	Dichlorvas 76% EC	Ltrs	500 ml	1	1	1
	C.O.C. 50% WP/ Folidol Dust	Kgs	500 gr	1	1	1
VI	Bio-pesticides					
	Trichoderma viridae / T. harzianaum	Kg	500 gr	1	1	1
	Pseudomonas florescence 1x10 cfu/gm	Kg	500 gr	1	1	1

iii. SWEET ORANGE / KINNOW / MANDARIN / ACID LIME (6M X 6M):

A. Pattern of Assistance

No. of Plants per Ha. 278

A. PATTERN OF ASSISTANCE FOR SWEET ORANGE / KINNOW / MANDARIN (6M X 6M) FOR 1 HA						
S. No	Name of sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2016-17)	2nd Year (2017-18)	3rd year (2018-19)	
1	Plant Material (@ Rs.30/- per plant)	9990	3336	660	0	3996
2	Inputs					
i	FYM	6400	1536	0	0	1536
ii	Neem Cake/ Vermicompost	3000	720	240	240	1200
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	16124	2849	1980	2460	7289
iv	PP Chemicals/ Bio pesticides	4094	960	320	500	1780
v	Implements (Secateurs, Spade, Pick axe)	400	200	0	0	200
Sub-Total		30018	6265	2540	3200	12005
Total		40008	9601	3200	3200	16001

B.INPUT PACKAGE RECOMMENDED FOR SWEET ORANGE / KINNOW / MANDARIN (6M X 6M) Per Acre						
Spacing: 6 M X 6 M			No. of plants per Acre : 111			
Sl. No	Inputs	Unit	Packing size	1st year	2nd year	3rd year
I.	Organic Manures					
	Farm Yard Manure	Tones		2.5	1.5	2
	Vermicompost / Neem Cake	Kgs	40 Kg	100	150	200
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	160	120	180
	Urea	Kgs	50 Kg	40	80	120
	M.O.P.	Kgs	50 Kg	25	50	75
III	Bio Fertilizers					
	P.S.B.	Kgs	Kg	6	6	6
	VAM	Kgs	Kg	56	0	0
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	12	17	24
V	Plant Protection Chemicals					
	Chlorophyriphos	Ltrs	500 ml	1	1	1
	Prophenophos / Trizophos	Ltrs	500 ml	0.5	0.5	0.5
	C.O.C. 50% WP/ Folidol Dust	Kgs	500 grms	0.5	0.5	0.5
	Mancozeb	Kgs	500 grms	0.5	0.5	0.5
	Sticking Agent – Indetron	Ltrs	500 ml	1	1	1
VI	Bio Pesticides					
	Trichoderma	Kgs	Kg	2	2	2
	Pseudomonas	Kgs	Kg	2	2	2

iv. ACID LIME (6 M X 6 M):**No. of Plants per Ha. 278**

B. INPUT PACKAGE RECOMMENDED FOR ACID LIME (6 M X 6 M) PER ACRE						
Spacing: 6 M X 6 M				No. of plants per Acre : 111		
Sl. No	Inputs	Unit	Packing size	1st year	2nd year	3rd year
I.	Organic Manures					
	Farm Yard Manure	Tones		2.5	1.5	2
	Vermicompost / Neem Cake	Kgs	40 Kg	200	150	200
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	160	120	180
	Urea	Kgs	50 Kg	40	80	120
	M.O.P.	Kgs	50 Kg	25	50	75
III	Bio Fertilizers					
	P.S.B.	Kgs	Kg	6	6	6
	VAM	Kgs	Kg	56	0	0
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	12	17	24
V	Plant Protection Chemicals					
	Chlorophyriphos	Ltrs	500 ml	1	1	1
	Prophenophos	Ltrs	500 ml	0.5	0.5	0.5
	C.O.C. 50% WP/ Folidol Dust	Kgs	500 grms	0.5	0.5	0.5
	Mancozeb	Kgs	500 grms	0.5	0.5	0.5
	Streptocyclin	Grms	6 grms	36	54	72
	Sticking Agent – Indetron	Ltrs	500 ml	1	1	1
VI	Bio Pesticides					
	Trichoderma	Kgs	Kg	2	2	2
	Pseudomonas	Kgs	Kg	2	2	2

V. POMEGRANATE (5 M X 3 M):**No. of Plants per Ha. 667**

A. PATTERN OF ASSISTANCE FOR POMEGRANATE (5 M X 3 M) FOR 1 HA						
Sl. No	Name of sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2016-17)	2nd Year (2017-18)	3rd year (2018-19)	
1	Plant Material (@ Rs.25/- per plant)	22525	6670	1670	670	9010
2	Inputs					
i	FYM	9110	3644	0	0	3644
ii	Neem Cake/ Vermicompost	4000	960	320	320	1600
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	20645	3333	2338	2548	8219
iv	PP Chemicals/ Bio pesticides	10000	1197	1006	1796	3999
v	Implements (Secateurs, Spade, Pick axe)	400	200	0	0	200
Sub-Total		44155	9334	3664	4664	17662
Total		66680	16004	5334	5334	26672

B.INPUT PACKAGE FOR POMEGRANATE (5 M X 3 M) PER ACRE						
Spacing: 5 M X 3 M		No. of plants per Acre: 160				
Sl. No.	Inputs	Unit	Pkg. size	1st year	2nd year	3rd year
I	Organic Manures					
	Farm Yard Manure	Tones		3	5	5
	Vermi-compost / Neem Cake	Kgs	40 Kg	400	600	600
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	350	200	200
	Urea	Kgs	50 Kg	125	255	255
	M.O.P.	Kgs	50 Kg	40	78	78
III	Bio Fertilizers					
	P.S.B.	Kgs	Kg	5	5	5
IV	Micronutrients					
	Zinc Sulphate (Soil Application)	Kgs	10 Kg	10	10	10
	Boron (Borax 20%)	Kgs	500 gr	1	1	1
	Other Micronutrients based on soil testing report	Kgs	Kg	10	10	10
V	Plant Protection Chemicals					
	Copper Sulphate 50% WP	Kg	Kg	4	4	4
	Lime (Lime sulphate)	Kg	5 kg	4	4	4
	Carbendazim 50% WP	Kg	250 gr	1	0.25	0.25
	Fipronil 5% EC	Lit	250 ml	1	0.25	0.25
	Streptocyclin 10%	Grms	6 gr	36	36	36
	Sticking Agent	Lit	500 ml	1	1	1
VI	Bio Pesticides					
	<i>Trichoderma viride</i> / <i>T. harzianaum</i>	Kgs	Kg	6	6	6
	<i>Pseudomonas floescence</i> 1x10 cfu/gm	Kgs	Kg	6	0	0

VI. CUSTARD APPLE PLANTATION (2.5 M X 2.5 M)

No. of Plants per Ha. 1600

A. PATTERN OF ASSISTANCE FOR CUSTARD APPLE PLANTATION (2.5 M X 2.5 M FOR 1 HA)						
Sl. No.	Name of sub-component	Total cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2016-17)	2nd Year (2017-18)	3rd year (2018-19)	
1	Plant Material (@ Rs.20/- per plant)	43200	12800	3200	1280	17280
2	Inputs					
i	FYM	20300	4520	1280	2320	8120
ii	Neem Cake/ Vermicompost	13300	3320	800	1200	5320
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	15850	2480	1700	2160	6340
iv	PP Chemicals/ Bio pesticides	12550	2000	1500	1520	5020
v	Implements (Secateurs, Spade, Pick axe)	800	320	0	0	320
Sub-Total		62800	12640	5280	7200	25120
Total		106000	25440	8480	8480	42400

B.INPUT PACKAGE FOR CUSTARD APPLE PLANTATION (2.5 M X 2.5 M) PER ACRE						
Spacing: 2.5 X 2.5M		No. of plants per Acre : 640				
Sl.No.	Inputs	Unit	Pkg. size	1 st year	2 nd year	3 rd year
I	Organic Manures					
	Farm Yard Manure	Tones		10	5	5
	Vermi-compost / Neem Cake	Kgs	40 Kg	750	500	500
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	640	288	576
	Urea	Kgs	50 Kg	-	96	192
	M.O.P.	Kgs	50 Kg	-	96	192
III	Micronutrients					
	Zn, Mg, Boron & others based on soil testing report	Kgs	Kg	1	2	2
IV	Plant Protection Chemicals					
	Chlorophyriphos	Ltrs	500 ml	1	1	1
	Dimethoate	Ltrs	500 ml	1	1	1
	C.O.C. 50% WP/ Folidol Dust	Kgs	500 gr	1	1	1
	Mancozeb 6.5% + Carbendazim 12% WP	Kgs	500 gr	1	1	1
	Sticking Agent	Ltrs	500 ml	1	1	1

VII. APPLE BER PLANTATION (5 M X 5 M)

PATTERN OF ASSISTANCE FOR APPLE BER 5 X 5 M PER HA.							
No. of plants: 400 / Ha				Amount in Rs.			
Sl. No.	Name of sub-component	Indicative cost given by GoI (in Rs.)	Worked out at State Level (SHM) (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.)
				1st year (2016-17)	2nd Year (2017-18)	3rd year (2018-19)	
1	Plant Material (@ Rs.40/- per plant)	12000	21600	6400	1600	640	8640
2	Inputs						
i	FYM	23000	3750	800	300	400	1500
ii	Neem Cake/ Vermicompost		3000	400	200	600	1200
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients		2600	400	200	440	1040
iv	PP Chemicals/ Bio pesticides		4050	400	500	720	1620
Sub-Total		23000	13400	2000	1200	2160	5360
Total		35000	35000	8400	2800	2800	14000

INPUT PACKAGE FOR APPLE BER PLANTATION 5 X 5 m PER ACRE						
Spacing: 5 X 5			No. of plants per Acre : 160			
Sl.No.	Inputs	Unit	Pkg. size	1st year	2nd year	3rd year
I	Organic Manures					
	Farm Yard Manure	Tones		4	2	2
	Neem Cake/ Vermicompost	Kgs	40 Kg	320	320	320
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	400	120	240
	Urea	Kgs	50 Kg	40	40	80
	M.O.P.	Kgs	50 Kg	40	40	80
III	Micronutrients					
	Zn, Mg, Boron & others based on soil testing report	Kgs	Kg	8	12	12
IV	Plant Protection Chemicals					
	Chloriphyriphos	Ltrs	500 ml	3	3	3
	Dimethoate	Ltrs	500 ml	2	2	2
	C.O.C.	Kgs	500 gr	1	1	1
	Mancozeb 6.5% + Carbendazim 12% WP	Kgs	500 gr	2	2	2
	Sticking Agent	Ltrs	500 ml	1	2	2

✓ But input package for Apple ber is indicated based on research findings for Ber crop.

VIII. FIG PLANTATION (2.5 X 2.5 M):**No. of Plants per Ha. 1600****A.PATTERN OF ASSISTANCE FOR FIG 2.5 X 2.5 M FOR 1 HA.**

No. of plants: 1600 / Ha			Amount in Rs.			
Sl. No	Name of sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2016-17)	2nd Year (2017-18)	3rd year (2018-19)	
1	Plant Material (@ Rs.22/- per plant)	47520	14080	3520	1408	19008
2	Inputs					
i	FYM	18000	3200	1600	2400	7200
ii	Neem Cake/ Vermicompost	7200	1400	480	1000	2880
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	2680	240	240	592	1072
iv	PP Chemicals/ Bio pesticides	7600	1000	800	1240	3040
Sub-Total		35480	5840	3120	5232	14192
Total		83000	19920	6640	6640	33200

B.INPUT PACKAGE FOR FIG PLANTATION (2.5 X 2.5 M) PER ACRE

Spacing: 2.5 X 2.5		No. of plants per Acre : 640				
Sl.No	Inputs	Unit	Pkg. size	1st year	2nd year	3rd year
I	Organic Manures					
	Farm Yard Manure	Tone s		10	5	5
	Vermi-compost / Neem Cake	Kgs	40 Kg	1000	750	500
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg			
	Urea	Kgs	50 Kg			
	M.O.P.	Kgs	50 Kg			
III	Micronutrients					
	Zn, Mg, Boron & others based on soil testing report	Kgs	Kg	2	2	2
IV	Plant Protection Chemicals					
	Chloriphyriphos	Ltrs	500 ml	3	3	3
	Dimethoate	Ltrs	500 ml	2	2	2
	C.O.C. 50% WP/ Folidol Dust	Kgs	500 gr	2	2	2
	Mancozeb 6.5% + Carbendazim 12% WP	Kgs	500 gr	2	2	2
	Sticking Agent	Ltrs	500 ml	1	1	1

The District officers are requested to send the following information in the annexure prescribed below which is mandatory for release of subsidy along with proposal from concerned District officer & DMC approval.

RELEASE – ANNEXURE																	
S. No	COMPO NENTS / CROPS	U ni t	Assis tance (in Lakh)	Target Allotted		No. of beneficiaries entered in ED login of HORTNET for which release is now requested				Area achieved and entered in ED login of HORTNET for which release is now requested (Ha.)				Amount To be Released as per entry in ED login of HORTNET and DMC approval (Rs.)			
				P H Y (H a)	FIN (Rs. in Lak hs)												
						G e n	S C P	T S P	To tal	G e n	S C P	T S P	To tal	G e n	S C P	T S P	To tal
1																	
2																	



AE-Banana with Drip & Mulching



AE-Kinnow With Drip



AE – Vegetables with mulching

VEGETABLES

Objective:

- ✓ To ensure timely supply of vegetables all round the year.
- ✓ To supply quality vegetables.
- ✓ To replace traditional varieties of vegetables with hybrid varieties.
- ✓ To take up Hybrid Vegetables only in identified crop colonies.

Sl. No	Item	Max. permissible cost	Pattern of Assistance
1	Vegetables (For maximum area of 2 ha per beneficiary)		
	i) Hybrid	Rs.50,000/ ha	40% of the cost in general areas and in TSP areas (ITDAs) the assistance will be @ 50% of the cost.

S. No.	Component	Total permissible cost (in Rs.)	40% Subsidy in general areas (in Rs.)	Farmers share (in Rs.)	50% subsidy in TSP areas (ITDA areas) (in Rs.)	Farmers share (in Rs.)
1	Seeds	7500	3000	4500	3750	3750
2	Inputs	20000	8000	12000	10000	10000
3	Labour charges (Ploughing, Sowing, Weeding, Harvesting, etc.)	12500	4000	8500	6250	6250
4	Plastic crates @ 40 nos per ha @ 50% subsidy	10000	5000	5000	5000	5000
Total		50000	20000	30000	25000	25000

- The ADHs should identify the farmers nearby surrounding the District Head Quarters.
- This activity should be taken up in cluster approach. Each cluster should be not less than 10 ha. keeping in view of market potentiality.
- Each farmer is eligible up to max. extent of 2 ha.
- The farmers have to take up Hybrid Vegetable seeds / seedlings under cultivation.
- The farmers are to be trained in advance on the latest technologies in cultivation aspects INM / IPM / growing of vegetables under shadenets etc. for getting higher yields / higher productivity.

- Genuine seed material may be obtained from the approved firms of the Department / NSC and Govt. agencies. The farmers who proposed to take up hybrid veg seed from approved veg seed suppliers by TSSDC Ltd. The hybrid seedlings may also be obtained from nurseries on subsidy basis.
- The clusters are to be provided with infrastructure facility like Pre cooling unit, refer vans, collection grading centers, vending vans etc. under MIDH / RKVY and tied up with market group of farmers registered and their produces are to be supplied to Rythu Bazars / housing colonies.
- The inputs (INM / IPM) required for the cultivation are to be supplied as per the recommended doses given by the local scientists of Horticulture University.
- The ADHs are not permitted to inter change the budget allocation between subcomponent and should claim the subsidy as per the indicators given for each component.
- The cost involved in components like preparation of land, planting, staking, labour cost and intercultural operations should be borne by the beneficiary.
- The identified beneficiaries should be uploaded in the HORTNET.
- The Horticulture Officer is responsible for proper inspection, certification of invoice, and obtaining digital photograph of farmers along with material supplied on subsidy in their Jurisdiction.
- They should strictly follow the SC/ST allocations. Priority should be given to woman farmers and SHG groups for production of farming in clusters.
- The HO should record the data on production / productivity after adoption of latest technology in cluster by farmers.
- The selected farmers are to be trained on latest technology in vegetable cultivation to increase production & productivity, organic cultivation of vegetable management practices, micro irrigation, mulching etc.

- Micro irrigation is to be tied up with TSMIP wherever feasible for getting better yields.
- The District officers shall send the beneficiary list along with DMC approval to the Head office for release of Subsidy after uploading the beneficiary information in Hortnet.
- The Head office will release the Subsidy directly to the District officers who inturn will release the subsidy through online to the beneficiary.
- The assistance towards plastic crates shall be released to the concerned empanelled firms through TS Agros by District officers directly.
- The cost of inputs (INM / IPM) towards eligible subsidy shall be released to farmers bank account directly on physical inspection by concerned HO and also on self certification by farmer and also by random inspection (50%) by ADHs.

The District officers are requested to send the following information in the annexure prescribed below which is mandatory for release of subsidy along with proposal from concerned District officer & DMC approval.

RELEASE – ANNEXURE																	
S. No	COMPONENTS / CROPS	Unit	Assistance (in Lakhs)	Target Allotted		No. of beneficiaries entered in ED login of HORTNET for which release is now requested				Area achieved and entered in ED login of HORTNET for which release is now requested (Ha.)				Amount To be Released as per entry in ED login of HORTNET and DMC approval (Rs.)			
				PHY (Ha)	FIN (Rs.in Lakhs)												
						Gen	SCP	TSP	Total	Gen	SCP	TSP	Total	Gen	SCP	TSP	Total
1																	
2																	

FLOWERS

Objective:

- To bring additional area under Loose Flowers like Asters, Chrysanthemum, Crossandra, Marigold and Bulbous Flowers (Lillies and Gladiolus).

S.N	Item	Max permissible Cost	Pattern of Assistance
	Flowers (For a maximum of 2 ha per beneficiary)		
A	Loose Flowers	Rs. 40,000/ha	40 % of the cost for S & M farmers and 25% of cost to other category farmers in general areas and 50% of cost in TSP
B	Bulbous flowers	Rs. 1.50 lakh/ha	40 % of the cost for S & M farmers and 25% of cost to other category farmers in general areas and 50% of cost in TSP

i) Loose Flowers (Asters, Crossandra, Chrysanthemum and Marigold):

S. No.	Component	Total permissible cost (in Rs.)	40% subsidy For small & marginal farmers (in Rs.)	25% Subsidy other category Farmers (in Rs.)	50% subsidy in TSP areas (in Rs.)
1	Plant Material	18000	7200	4500	9000
2	Inputs	12000	4800	3000	6000
3	Labour component	10000	4000	2500	5000
Total		40000	16000	10000	20000

ii) Bulbous Flowers (Lillies and Gladiolus):

S. No.	Component	Total permissible cost (in Rs.)	40% subsidy For small & marginal farmers (in Rs.)	25% Subsidy other category Farmers (in Rs.)	50% subsidy in TSP areas (in Rs.)
1	Plant Material	90,000	36000	22500	45000
2	Inputs	30,000	12000	7500	15000
3	Labour component	30,000	12000	7500	15000
Total		1,50,000	60000	37500	75000

- ✓ The crops like Sented Roses, Asters, Crossandra & Chrysanthemum may be taken up under Loose Flowers and crops like Lillies and Gladiolus under Bulbous Flowers cultivation in clusters.
- ✓ Maximum assistance limit under Flowers programme is 2 ha. per beneficiary.
- ✓ The cost of the plant material should be calculated on (40% / 25% / 50%) of the total cost or the actual cost of the plant material whichever is less should be taken.
- ✓ Genuine plant material i.e. seeds / seedlings may be obtained from approved Govt. agencies / registered nurseries etc.
- ✓ Loose flowers & Bulbous cultivation should be taken up in a cluster approach keeping in view of the marketing facilities.
- ✓ Suitable INM/IPM practices may be advocated to farmers duly contacting the scientist of Horticulture University locally.
- ✓ The inputs required for the cultivation are to be supplied as per the recommended doses given by the local scientists.
- ✓ The ADHs are not permitted to inter change the budget allocation between subcomponent and should claim the subsidy as per the indications given for each component.
- ✓ The cost involved in components like preparation of land, planting, staking, labour cost and intercultural operations should be borne by the beneficiary.
- ✓ The identified beneficiaries should be uploaded in the HORTNET.
- ✓ The Horticulture Officer is responsible for proper inspection certification of invoice, and obtaining digital photograph of farmers along with material supplied on subsidy in their Jurisdiction.
- ✓ They should strictly follow the SC/ST allocations. Priority should be given to woman farmers.
- ✓ Identified farmers are to be trained on latest technology on flowers cultivation, Micro irrigation, PHM etc.
- ✓ Micro irrigation is to be tied up with TSMIP.
- ✓ Pre cooling / Collection centres / Refer vans etc. if any tied up to clusters for group of farmers.

- ✓ Micro irrigation is to be tied up with TSMIP wherever feasible for getting better yields.
- ✓ The District officers shall send the beneficiary list along with DMC approval to the Head office for release of Subsidy after uploading the beneficiary information in Hortnet.
- ✓ The Head office will release the Subsidy directly to the District officers who intturn will release the subsidy through online to the beneficiary.
- ✓ The assistance towards plastic crates shall be released to the concerned empanelled firms through TSAIDC by District officers directly.
- ✓ The cost of inputs (INM / IPM) towards eligible subsidy shall be released to farmers bank account directly on physical inspection by concerned HO and also on self certification by farmer and also by random inspection (50%) by ADHs.

The District officers are requested to send the following information in the annexure prescribed below which is mandatory for release of subsidy along with proposal from concerned District officer & DMC approval.

RELEASE – ANNEXURE																	
S. N o	COMP ONEN TS / CROP S	U ni t	Assi stan ce (in Lak h)	Target Allotted		No. of beneficiaries entered in ED login of HORTNET for which release is now requested				Area achieved and entered in ED login of HORTNET for which release is now requested (Ha.)				Amount To be Released as per entry in ED login of HORTNET and DMC approval (Rs.)			
				P H Y (H a)	FIN (Rs .in La kh s)												
						G e n	S C P	T S P	T ot al	G e n	S C P	T S P	T ot al	G e n	S C P	T S P	T ot al
1																	
2																	

Checklist for Inspection for release of funds under Area Expansion:

S.No.	Criteria	Remarks
	<u>Area Expansion:</u>	
1	Application of the farmer along with photos	
2	No. of plants per Ac or Ha	
3	Source of plant material	
4	Spacing followed	
5	Photographs of orchards along with farmers before and after plantation with date & time	
6	Drip irrigation system installed in the field	Yes / No
7	Recommended input package was followed	Yes / No
8	Bills and vouchers submitted for inputs	
9	Register maintained by the HO recording the details of identified beneficiaries i.e., land details/crop/variety/source of plant material/ date of planting/ inputs applied/ non subsidy particulars/ bank account no. and IFSC code	
10	Date of approval of District Mission Committee	
11	The details of beneficiary were uploaded in the HORTNET with field photos of 3 stages. The 3 stages photos should be clubbed and uploaded to HORTNET as field photo (Pit digging, during Plantation and after Plantation along with beneficiaries)	
12	Current Status of implementation of Scheme.	

HEO

HO

ADH

DDH

3. 2nd Year maintenance of plantations established during 2015-16

- The beneficiaries have to take up gap filling on their own to maintain 75% of the survival garden under 2nd year maintenance.

PATTERN OF ASSISTANCE Per Ha. TO BE FOLLOWED FOR 2nd YEAR MAINTENANCE PROGRAMME (GARDENS ESTABLISHED DURING 2015-16)

S.No	Crop	Assistance (in Rs. Per Ha)		
		II Year (2015-16)		
		Plant Material	Inputs	Total Assistance
1	Mango (5m x 5m)	1000	2280	3280
2	Mango (2.5 mx 2.5m) (3m x 3m)	4000	4960	8960
3	Citrus (Sweet orange/Kinnow/Mandarin/Acid lime) (6m x 6m)	660	2540	3200
4	Guava (3m x 3m)	2216	3650	5866
5	Guava (1 m x 2 m)	10000	6000	16000
6	Apple ber (5m x 5m)	1600	1200	2800
7	Fig (2.5m x 2.5m)	3520	3120	6640
8	Custard apple (2.5m x 2.5m)	3200	5280	8480
9	Pomegranate (5m x 3m)	1670	3664	5334
10	Cocoa (3.5m x 3.5m)	218	2383	2600
11	Banana TC (1.8m x 1.8m)	0	10246	10246
12	Papaya (1.8 m x 1.8 m)	0	7707	7707

4. 3rd Year maintenance of plantations established during 2014-15

- The beneficiaries have to take up gap filling on their own to maintain 90% of the survival garden under 3rd year maintenance.

PATTERN OF ASSISTANCE Per Ha. TO BE FOLLOWED FOR 3rd YEAR MAINTENANCE PROGRAMME (GARDENS ESTABLISHED DURING 2014-15)

S.No	Name of the crop	Assistance (in Rs. Per Ha)		
		Plant Material	Inputs	Total Assistance
		3	4	5
1	Mango (5 m x 5 m)	400	2880	3280
2	Guava (3m x 3m)	888	4978	5866
3	Sweet Orange (6 m x 6 m)	0	3200	3200
4	Acid Lime (6 m x 6 m)	0	3200	3200
5	Pomegranate (5 m x 5m)	670	4664	5334
6	Cocoa (3.5 m x 3.5 m)	88	2512	2600

- ✓ While calculating the total cost as per the package, the subsidy amount indicated for each sub-component under IPM / INM should be strictly followed and no diversification of funds from one input to another is allowed i.e., from Bio pesticide to chemical pesticide/organic manures to inorganic fertilizers etc.
- ✓ Before extending input assistance to the beneficiaries under 2nd and 3rd year maintenance, DMC should take necessary proactive steps so that beneficiary shall be motivated to take up gap filling on his/her own to maintain 75% and 90% survival under 2nd & 3rd year respectively.
- ✓ The identified beneficiaries should be uploaded in the HORTNET.
- ✓ The District officers shall send the beneficiary list along with DMC approval to the Head office for release of Subsidy after uploading the beneficiary information in Hortnet.
- ✓ The Head office will release the Subsidy directly to the District officers who inturn will release the subsidy through online to the beneficiary.
- ✓ The assistance towards plastic crates shall be released to the concerned empanelled firms through TS Agros by District officers directly.
- ✓ The cost of inputs (INM / IPM) towards eligible subsidy shall be released to farmers bank account directly on physical inspection by concerned HO and also on self certification by farmer and also by random inspection (50%) by ADHs.

The District officers are requested to send the following information in the annexure prescribed below which is mandatory for release of subsidy along with proposal from concerned District officer & DMC approval.

RELEASE – ANNEXURE																	
S. No	COMPONENTS / CROPS	Unit	Assistance (in Lakhs)	Target Allotted		No. of beneficiaries entered in ED login of HORTNET for which release is now requested				Area achieved and entered in ED login of HORTNET for which release is now requested (Ha.)				Amount To be Released as per entry in ED login of HORTNET and DMC approval (Rs.)			
				PHY (Ha)	FIN (Rs.in Lakhs)												
						Gen	SCP	TSP	Total	Gen	SCP	TSP	Total	Gen	SCP	TSP	Total
1																	
2																	

5. CREATION OF WATER RESOURCES

A. FARM PONDS

Farm ponds are the man made tanks constructed for storage of water in the farmers' field during rainy season from canals, bore wells etc., and to provide life saving irrigation to the crops or orchards during peak / critical stages of summer to save the plants from drying up.

These are constructed by excavating the soil and depositing the earth on the banks to form bund. The HDPE geo-membrane sheet is laid in the excavated pond to arrest seepage and infiltration losses.

Procedure to be followed for executing of Farm Ponds

Farmers are to be sensitized and motivated by HOs/ADHs to understand the concept of farm ponds to provide life saving irrigation to the orchards/ crops during peak periods of summer to save the gardens.

1. Beneficiaries are to be identified in Grama sabhas and list has to be approved in Grama sabha.
2. Identified list has to be displayed in HRCs/ Gramapanchyaths and Mandal parishads as well.
3. Preference shall be given to small and marginal farmers
4. SC and ST ratios shall be followed scrupulously.
5. **A slit trap should be provided at the entrance of the pond.**
6. **The sheet should not be folded while laying.**
7. **The Geo Membrane sheet with 500 microns is more effective rather than 300 microns.**
8. The District Officer should collect the non subsidy portion in the form of Demand draft in favour of District Officer from the concerned farmer.
9. District Officer should obtain DMC approval for the list of feasible beneficiaries identified for farm ponds.
10. After obtaining DMC approval, the DDH shall issue work order to the empanelled Agency / farmer.
11. **Farmers will be given choice to execute the farm ponds on their own choice or from list of empanelled firms.**
12. MI Engineer will take the MB record and Check measurement will be done by Horticulture Officer.

13. Super check by Deputy Director of Horticulture (10% of Target randomly).
14. After completion of execution of farm pond MI Engineer and concerned Horticulture Officer will issue the completion certificate along with photograph for record purpose at district level to the DDH.
15. DDH will inspect the farm pond along with concerned ADH & HO and inspection report will be sent to the SHM office by recommending for release of subsidy to the beneficiary.
16. A Display board (Iron) of size 2'x2' ft containing the following information in Telugu should be placed near the farm pond.
17. The District Officer shall transfer the Subsidy amount through online to the accounts of the concerned beneficiaries / firms within 15 days of receipt of funds from head office.
18. The fencing should be done by the farmer with his own cost.
19. All such uploaded bills should be forwarded to the DDH login. In turn the DDH will compile all the bills in his login and obtain financial approval of DMC. After approval of DMC the same may be forwarded to ED login for release of payment.
20. The District officers shall send the beneficiary list along with DMC approval to the Head office for release of Subsidy.
21. The assistance will be provided to the beneficiaries / agency / firm after filing of all mandatory details in HORTNET.

Department of Horticulture

Mission for Integrated development of Horticulture (MIDH)



Name of farmer:

Extent of land & crop:

Size of pond (m x m):

Capacity of pond (litres):

Total expenditure: Rs.

Total Subsidy: Rs.

Subsidy amount: Rs.

Non subsidy amount: Rs.

Year of sanction:

TIME LINE FOR IMPLEMENTATION OF FARM PONDS

Description	To be completed by	Responsible officer
Identification of beneficiary	Before August, 2016	District Officer, Concerned Horticulture Officer
Technical feasibility	Before July 2016	HO& MI Engineer
Issue of administrative sanction & Organizing Training programme duly obtaining DHM approval	Before August, 2016	DDH & District Officer, Concerned Horticulture Officer
Excavation of Farm pond	Within 25 days after receipt of administrative sanction from the DDH	Farmer / Empanelled firm/ Company
Lining with geo membrane sheet	Within 20 days after excavation and consolidation of farm pond	Farmer / Empanelled firm/ Company
Fencing, display board, erection of sand filter and connection to drip system.	Within 10 days after sheet laying	Farmer

BENEFITS :

- Utilization of harvested drain-water for short duration crops even during off season.
- Lining of ponds and reservoirs with plastics film improve water availability over a longer period of time. Reduction in seepage losses to the maximum extent (95%)
- It is highly useful in porous soils where water retention in ponds and water harvesting tanks is minimal.
- Economical and effective method of storing water.
- Eliminates water logging and prevents upward intrusion of salts into stored water.
- Technique is also suitable for lining of effluent ponds and channels To reduce soil and ground water contamination.
- The water from bore wells, canals during the rainy (peak) season can be stored in these ponds and which can be used during lean season.

A) Preparation of pit:

- Mark out the outer corner of the selected field using pegs
- Measure the bottom dimension of the pond by calculating depth and slope ratio. It appears in center of the outer corner of the selected site and marked it excavation process.
- Excavate marked area first up to desired depth.
- After that, excavate rest area in inclined manner from one edge of bottom to top of the outer edge of same side and repeat the same for

next three sides.

- Spread the excavated soil in the depressions for leveling and also on edges to make bunds of desired height from ground level.
- Level the excavated pond in order to suppress the angular projection
- Cut soil must be sealed or compacted unless the site is dug into a tight, clay formation so that film could be saved from puncture caused by these projections.
- After compaction, the whole area of pond should be treated with 4% atrazine (Weedicide solution) so that the plastic film could be saved from puncture caused by root infestation.
- After that all surface of pond should be smoothened properly.
- Excavate a trench of one cubic feet size on top of the bund at distance of 0.75-1.0 m from the inner edge of the pond for anchoring the HDPE film.

B) HDPE (high density poly-ethylene, with carbon Black)

This lining material shall be UV light resistant and one of the best available to last many years (generally 100 plus). It is used in lining under gasoline storage tanks, public dumps, toxic settling ponds, aquaculture ponds, etc. It can be heat-welded together. A minimum of 0.5 mm (500 micron) film is best suited for regular ponds.

C) Laying of Geo Membrane sheet:

For laying of HDPE films minimum of 0.5mm (500 micron) film are best suited for lasting of film and the following procedure are taken into consideration:

- Choose the film as per BIS /ISI mark (IS: 15351 / IS: 10889 / IS:2508)
- Use minimum of 500 micron black HDPE film
- Calculate the film requirement for dugout pond and cut it accordingly
- Measure and cut the film as per calculation.
- HDPE films manufactured into panels of standard widths. Therefore convert the film into a single sheet as desired either mechanically by heat- sealing machine like Hot Air fusion welding machine or manually (by overlapping 15 cm of the edge of two sheet and scrubbed lightly using emery paper or sand paper (120 grade) using bitumen/Synthetic Rubber adhesive No -998 made by fevicol so that it fit exactly to fit into the pond.
- Monitor the film in sunlight for searching/puncture hole if any, sealed the hole with bitumen/adhesive or by heat-sealing procedure.
- The ends of the film at the surface have to be firmly buried in a trench at the bank of the pond to avoid sagging in of the film.
- Care should be taken to avoid the wrinkles and film must be pleated at the corner.

D) Pointing over the film

To protect the film from damage pointing over the laid film is required.
Generally locally available material / easily available material to be used

- Over laying works can be done in many ways but most suitable and economic ways are one of them is overlaying brick alone completely on all four sides, bunds and bottom of the lined tank. Secondly construct a brick work frame of size 2' x 2' and place mortar of cement and soil (1:8) inside the frame.
- Install water inlet and outlet pipes duly fixing them in brick masonry post over laid plastic film and to measure the discharge of water from the tanks, a 'V'- notch weir can be constructed.
- Drainage channel all along the border of the field is formed according to the gradient/slope.
- Live grass/ Turf is established on the bunds of the pond to prevent soil erosion.



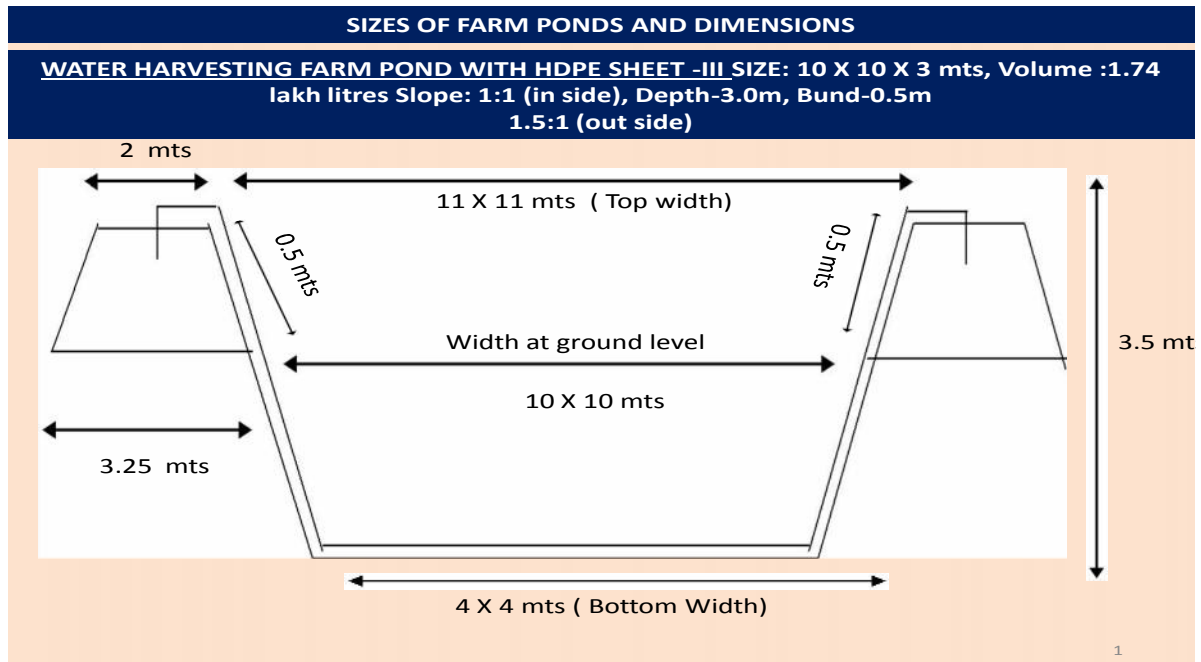
Farm Pond, Nalgonda



Farm Pond, Khammam

E) Technical Specifications:

10X10X3



1. Bottom width 4 X 4m
2. Width at ground level 10 X 10
3. Top width 11 X 11
4. Bund above Ground level 2m
5. Depth below Ground level 2m
6. Bund width at top 2m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 174000 Lakh Liters

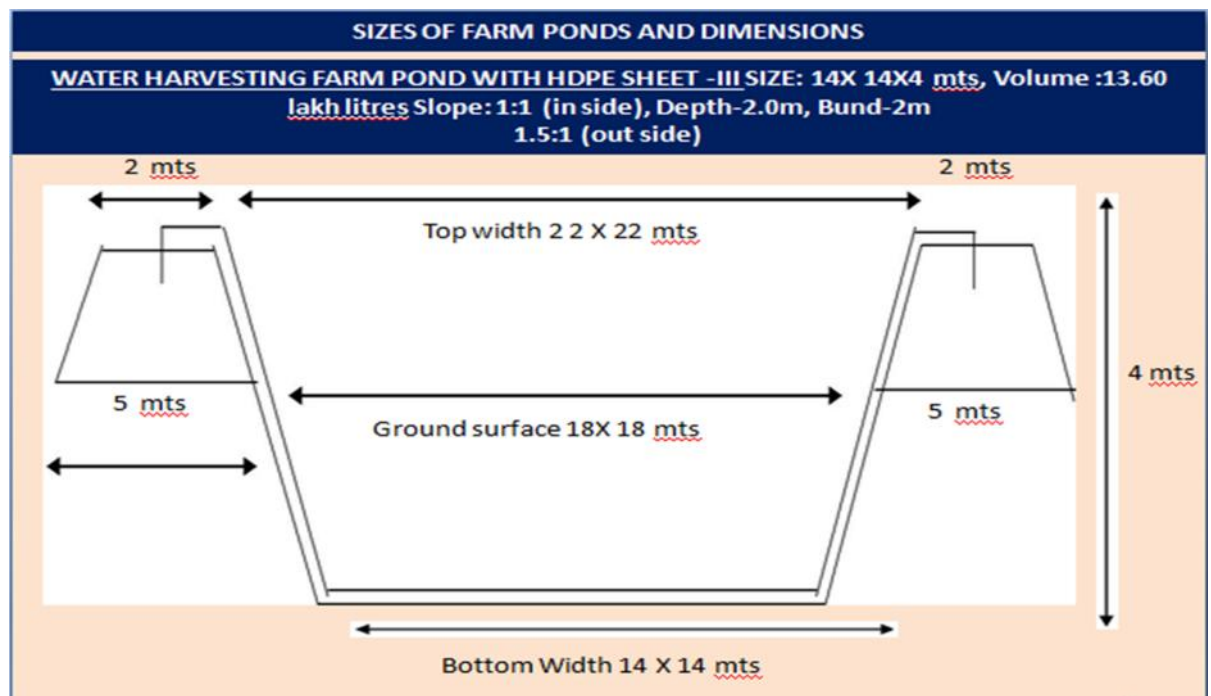
Calculation:

Volume = Ground surface Area + Bottam Area X Total Depth of the pond

$$= \frac{4 \times 4 + 10 \times 10}{2} \times 3$$
$$= 174 \text{ cubic mtrs}$$

- One cubic meter = 1000 liters of water
- Hence, the toal volume of the farm pond i.e., 10X10X3 m = 1,74,000 liters.
- Subsidy per one cubic meter = Rs. 62.50/-
- Hence, the total subsidy of the Farm pond i.e., 10X10X3 m = Rs.10,875/-

14 X 14 X 4 m



1. Bottom width 14 X 14
2. Width at ground level 18 X 18
3. Top width 22 X 22
4. Bund above Ground level 2m
5. Depth below Ground level 2m
6. Bund width at top 2m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 13,60,000 liters

Calculation:

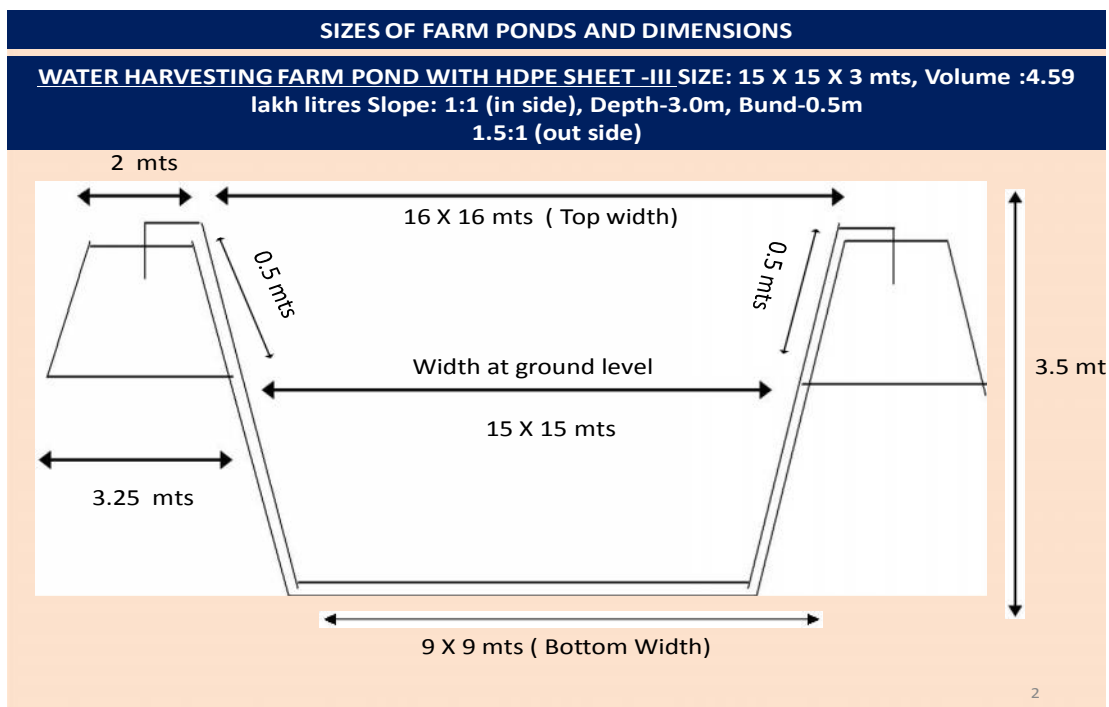
Volume = $\frac{\text{Bottom Area} + \text{Top Area}}{2}$ X Total Depth of the pond

$$= \frac{14 \times 14 + 22 \times 22}{2} \times 4$$

$$= 1360 \text{ cubic mtrs}$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond i.e., 14X14X4 m = 1360000 liters.
- Subsidy per one cubic meter = Rs. 62.50/-
- Hence the total subsidy of the Farm pond i.e., 14X14X4 m = Rs.85,000/-

15x15x3m:



1. Bottom width 9 X 9m
2. Width at ground level 15 X 15m
3. Top width 16 X 16m
4. Bund above Ground level 0.5m
5. Depth below Ground level 3m
6. Bund width at top 3.25m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 4,59,000 lakh liters

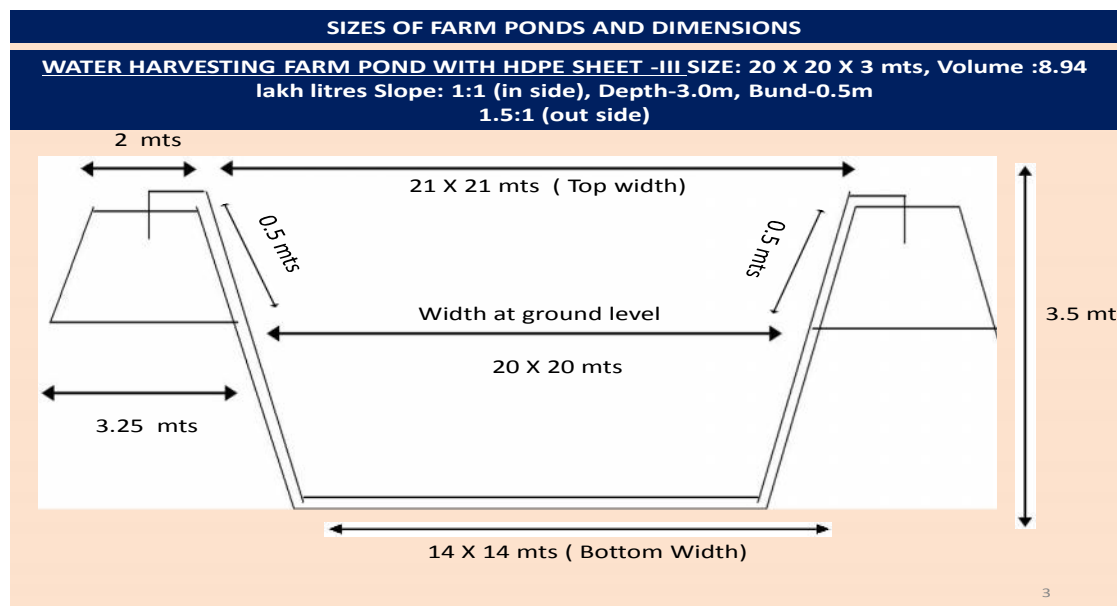
Calculation:

Volume = Ground surface Area + Bottam Area X Total Depth of the pond

$$= \frac{9 \times 9 + 15 \times 15}{2} \times 3$$
$$= 459 \text{ cubic mtrs}$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond i.e., 15X15X3 m = 4,59,000 lakh liters.
- Subsidy per one cubic meter = Rs. 62.50/-
- Hence the total subsidy of the Farm pond i.e., 15X15X3 m = Rs. 28,687.50/-

20X20X3



1. Bottom width 14 X 14m
2. Width at ground level 20 X 20m
3. Top width 21 X 21m
4. Bund above Ground level 0.5m
5. Depth below Ground level 3m
6. Bund width at top 3.25m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 8,94,000 lakh liters

Calculation:

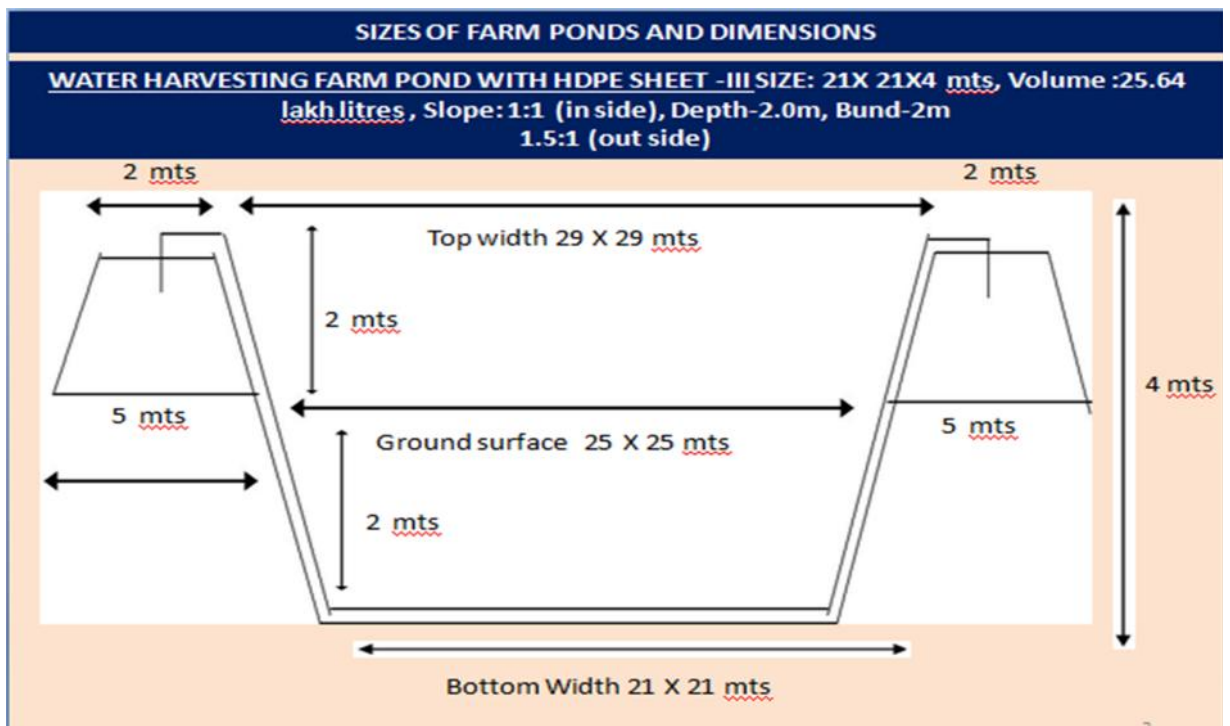
Volume = $\frac{\text{Bottom Width} + \text{Top Width}}{2} \times \text{Total Depth of the pond}$

$$= \frac{14 \times 14 + 21 \times 21}{2} \times 3$$

$$= 894 \text{ cubic mtrs}$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond i.e., 20X20X3 m = 8,94,000 lakh liters.
- Subsidy per one cubic meter = Rs. 62.50/-
- Hence, the total subsidy of the Farm pond i.e., 20X20X3 m = Rs. 75,000/- (as per GOI Norms)

21 X 21X 4m



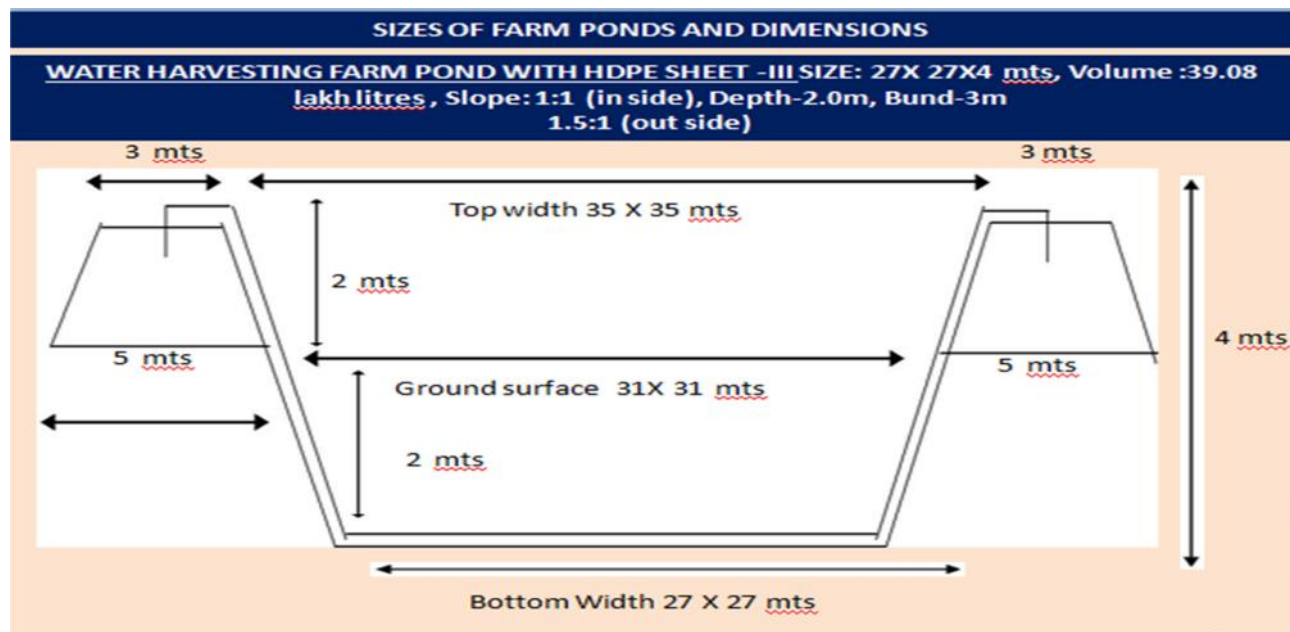
1. Bottom width 21 X 21 m
2. Width at ground level 25 X 25 m
3. Top width 29 X 29 m
4. Bund above Ground level 2m
5. Depth below Ground level 2m
6. Bund width at top 2m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 25,64,000 liters

Calculation:

$$\begin{aligned}\text{Volume} &= \frac{\text{Bottom Area} + \text{Top Area}}{2} \times \text{Total Depth of the pond} \\ &= \frac{21 \times 21 + 29 \times 29}{2} \times 4 \\ &= 2564 \text{ cubic mtrs}\end{aligned}$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond i.e., 21X21X4 m = 2564000 liters.
- Subsidy per one cubic meter = Rs. 62.50/-
- Hence the total subsidy of the Farm pond i.e., 21X21X4 m = Rs.1,60,250/-

27X27X4m



1. Bottom width 27 X 27 m
2. Width at ground level 31 X 31 m
3. Top width 35 X 35 m
4. Bund above Ground level 2m
5. Depth below Ground level 2m
6. Bund width at top 2m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 39,08,000 liters

Calculation:

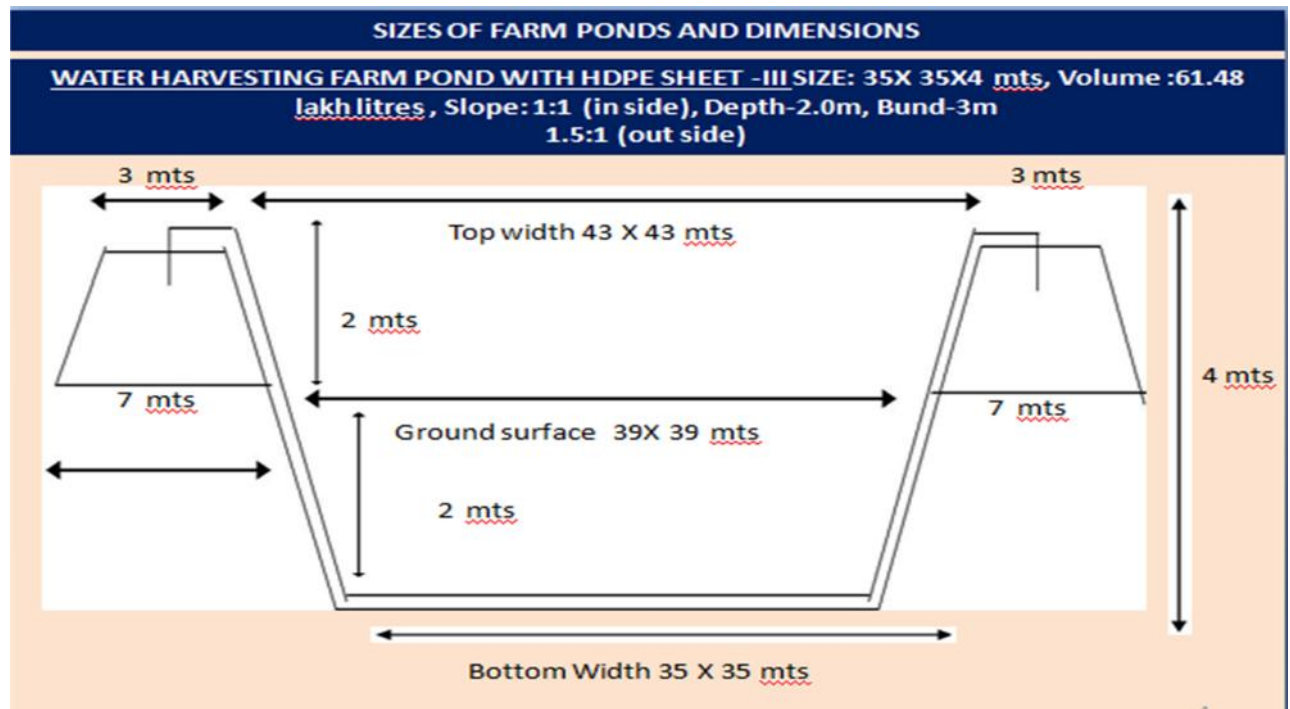
$$\text{Volume} = \frac{\text{Bottom Area} + \text{Top Area}}{2} \times \text{Total Depth of the pond}$$

$$= \frac{27 \times 27 + 35 \times 35}{2} \times 4$$

$$= 3908 \text{ cubic mtrs}$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond i.e., 27X27X4 m = 39,08,000 liters.
- Subsidy per one cubic meter = Rs. 62.50/-
- Hence, the total subsidy of the Farm pond i.e., 27X27X4 m = Rs.2,44,250 /-

35X35X4m



1. Bottom width 27 X 27 m
2. Width at ground level 31 X 31 m
3. Top width 35 X 35 m
4. Bund above Ground level 2m
5. Depth below Ground level 2m
6. Bund width at top 2m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 61,48,000 liters

Calculation:

$$\text{Volume} = \frac{\text{Bottom Area} + \text{Top Area}}{2} \times \text{Total Depth of the pond}$$

$$= \frac{35 \times 35 + 43 \times 43}{2} \times 4$$

$$= 6148 \text{ cubic mtrs}$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond i.e., 35X35X4 m = 61,48,000 liters.
- Subsidy per one cubic meter = Rs. 62.50/- .
- Hence, the total subsidy of the Farm pond i.e., 35X35X4 m = Rs.3,84,250/-.

6. PROTECTED CULTIVATION

A. POLY HOUSES / SHADENET HOUSES

Objectives:

- ❖ Enhancing productivity per unit area.
- ❖ Promotion of high value Horticulture crops under poly houses/Shade Net Houses.
- ❖ Propagation of planting material to improve germination percentage and better hardening.
- ❖ Year round production of floricultural crops and off season production of vegetables & fruit crops.

Points to be considered while constructing Poly house:

East and South for the sun is excellent for the green house, which can remain open on both these sides, but it should be shaded on the north and the west to protect from winds.

- ❖ The site should be free from shadow.
- ❖ The site should be at a higher level than the surrounding land with adequate drainage facility.
- ❖ Availability of good quality irrigation water and electricity.
- ❖ pH of irrigation water should be in the range of 5.5 to 7.0 and EC between 0.1 to 0.3mS/cm.
- ❖ pH of soil should be in the range of 5.5 to 6.5 and EC between 0.5 to 0.7mS/cm.
- ❖ Structure should withstand to minimum wind velocity of 80.6 miles per/hr or 130 Km/hr or 36 Meter per second.

General Guidelines & Procedure to apply for assistance

1. The cases shall be entertained on First Come First Serve Basis.
2. The applicant shall be responsible for the completion of all required documents. Incomplete documents does not entitle applicant to avail assistance. The application shall be considered only after submission of all the documents.
3. Farmer will apply to concerned PD/DDH office through HO of concerned block with complete required documents as per check-list.
4. Head Office will scrutinize the cases and recommend to accord approval for release of assistance under this component.
5. PD/DDH will issue administrative sanction letter after approval from Head Office.

6. In case of finance by Bank, the PD/DDH 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.
7. Bank after sanctioning the loan amount of project will send a copy of sanction letter and appraisal report to PD/DDH for the sanction of project. The date of receiving of appraisal report in PD/DD office shall be treated as first day of application and will be considered based on available targets.
8. All the cases must be entertained through online on HORTNET in case assistance is to be availed under MIDH scheme.

Eligibility Criteria for applicant:

1. Minors are not eligible.
2. Only farmer can be a beneficiary under the schemes. The document viz. Ration card/voter card/Aadhar card/Domicile/Passport etc., contact mobile no. are 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/ Computer pahani (Latest by three months) Land verification report by Patwari and VRO. All the documents submitted shall not be 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 Aadhaar 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 Telangana State 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. 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 Telangana State are not eligible.

III 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.

IV. Construction of Protected Structures: The work of construction of protected structures shall be completed within a period of **90 days**. Further, an extension of maximum 30 calendar days may be considered in advance in writing.

V. Assistance Limit: The assistance shall be applicable as per norms given below:

VI. Pattern of Assistance:

SI.No.	Item	Estimated unit cost	Pattern of Assistance
1	Poly House Structure		
	Naturally ventilated system		
	i) Tubular structure	i. Rs.1060/Sq.m (up to area 500 Sq. m) ii.Rs. 935/Sq.m (>500 Sq. m up to 1008 Sq. m) iii.Rs. 890/Sq. m (>1008 Sqm up to 2080 Sq. m) iv.Rs. 844/Sq. m (>2080 Sq. m up to 4000 Sq. m) Above rate will be 15% higher for hilly areas	50% of cost limited 4000 sq. m per beneficiary.
	ii) Wooden structure	Rs. 540/Sq. m and Rs. 621/Sq. m for hilly areas	50% of the cost limited to 20 units (each unit not to exceed 200 Sqm per beneficiary).
2	Shade Net House		
	(a) Tubular structure	With plastic top as addition: >4.00m height - Rs.710/Sqm	50% of cost limited to 4000 Sq.m.per beneficiary.
		Dome shape; >4.00 m height – Rs. 600/sqm	50% of cost limited to 4000 Sq. m. per beneficiary.
		Flat shape-all GI; 4.0 m height – Rs. 550/sqm	50% of cost limited to 4000 Sq. m. per beneficiary.
		Flat shape-Cable purlin,	50% of cost limited to

		4.0 m ht. – Rs. 525/sqm	4000 Sq. m. per beneficiary.
	(b) Wooden structure	Rs. 492/Sqm and Rs. 566/Sqm for hilly areas	50% of cost limited to 20 units (each unit not to exceed 200 Sq.m) per beneficiary.
3	Cost of planting material of high value vegetables grown in poly house	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	
5	Cost of planting material & cultivation of Carnation & Gerbera under poly house/shade net house.	Gerbera-Rs. 275/Sqm	
		Carnation-Rs. 610/Sqm	
6	Cost of planting material & cultivation of Rose and lilum under poly house/shade net house	Rs. 157.50/Sqm	
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.

Terms & Conditions:-

- 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/Firm is responsible for the erection of the Poly House / Shadenet House / inset net house.

- Erection should be carried out by the companies empanelled by the Department.
- A display board depicting “Department of Horticulture”, Telangana State (Assisted Green House 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.
- Under Poly House flowers, vegetables, medicinal and aromatic plants, spices etc. should be considered for cultivation.
- The proposals for construction of Poly House / Shadenet house may also be implemented in project mode with credit link back ended subsidy.
- Under Shade nets the percentage of shade to be used is 35 to 75 %
- Documentation with photo graphs to be done at various stages of erection of Poly House / 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.

VII. DMC approval has to be obtained and list of beneficiaries should be submitted to the state MIDH cell for approval of State Level Executive Committee.

VIII. Administrative sanction proceedings will be issued by the state MIDH Cell after SLEC approval duly informing the conditions along with the design, specifications, date of completion etc.

IX. Inspection : There shall be Three inspections.

- First Inspection:** First Inspection shall be conducted by Joint Inspection Team (JIT) from DHQ(District Head Quarters), HO & PD/DD 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 PD/DD of the District with assurance that the material supplied as per component list and the foundation work is complete as per the 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 along with Banker shall carry out the inspection.

- b. **Final inspection:** final inspection shall be conducted by JIT or Third party inspection nominated by Head of the Department after intimation to the PD/DD of the District after completion of structure in all respects. PD/DD/HO, Firm representative (if empanelled firm) farmer and Banker (in case bankable) will remain present at the time of physical inspection to be carried out.
- c. **Additional Inspection:** Due to the shortcomings in structure during first/final inspection, the additional inspection if required, the firm shall bear the charges for the same. If additional inspection is due to farmer, the farmer shall bear the charges for the same accordingly. The rate shall be charged applicable at that time and is binding to all.

X. Insurance of Poly house: The insurance of Poly house is the responsibility of farmer.

XI. Assistance of cost of cultivation: The assistance on cost of cultivation shall be released only after successful completion of Poly house and release of assistance. The farmer has to apply to concerned Deputy Director of Horticulture by intimating the possession of structure and submission of training certificate and sowing of crop.

XII. Marketing: The Marketing of produce of Polyhouse is the responsibility of farmer.

FORMAT – I

Application for Availing Assistance / Subsidy Under MIDH
Through State Horticulture Mission

Recent
Passport Size
Photograph

Name of the Scheme: Protected Cultivation

Component: POLY HOUSE / SHADENET HOUSE / MULCHING/ PLANT MATERIAL

1	Name of the Farmer	:	
2	Father / Husband Name	:	
3	Caste (SC/ST/BC/OC)	:	
4	Address	:	
	Phone / Cell No.	:	
5	Land records with Extent in Acres / Ha. (Copy of Pass Book / Computer pahani)	:	
6	Area Proposed in Sq.mtrs./Ha.	:	
7	Account No & Name of the Bank & Address	:	
8	Proposed crop	:	
9	Source of procurement of planting material		
10	Source of Irrigation (Open well / Bore well)	:	
11	Soil & Water Analysis Soil PH & EC, Irrigation water PH & EC Soil & Water Analysis reports to be enclosed. (Not needed for Mulching)	:	
12	Estimated cost of the project Details of the project by the technical consultant to be enclosed.		
13	Whether any Govt. Subsidy availed previously	:	
14	Any other relevant information	:	

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 Telangana State., including recovery of the subsidy amount with 12% interest to the Government.

Signature of the Farmer / Entrepreneur.

Recommendations of the Horticulture Officers _____

Enclosures:

Assistant Director of Horticulture

1. Pattadar Pass Book/Original Computer pahani
2. Detailed Project Estimate
3. Soil & Water Analysis (not needed for Mulching)
4. Affidavit (not needed for Mulching)

WORK FLOW & CHECK LIST FOR DOCUMENTS TO BE SUBMITTED TO
POLY HOUSE / SHADENET HOUSE

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	DISTRICT OFFICER
7	Application filling in Hortnet	Farmer / HO
8	District Mission Committee Approval	DISTRICT OFFICER
9	SLEC Approval	State MIDH cell
10	Issue of Administrative Sanction- Format – III	CoH
11	Erection of Poly House (empanelled list will be communicated)	Farmer/Firm
12	1 st Joint Inspection after foundation	DISTRICT OFFICER
13	Completion & Under Taking – Format – IV	Farmer & Fabricator
14	Submission of bills & invoices	Farmer / HO
15	Constitution of Joint Inspection Committee	DISTRICT OFFICER
16	Final Joint Inspection Report - Format - V	Committee Members
17	Sending of joint inspection report by obtaining DHM approval for sanction and release of assistance along with photo graphs to state MIDH cell for release.	DISTRICT OFFICER
18	Uploading the bills and field photos in Hortnet	DISTRICT OFFICER
19	Release of subsidy to the beneficiary through online transfer (Hortnet)	State MIDH cell

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 Green House at _____ (location of the Green House) for _____ (activities to be undertaken by Green House) 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 Green House / 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 Green House / proposal / scheme are covered under the above scheme of MIDH and no part of the scheme / infrastructure of the Green House 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 Green House / 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 Telangana 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 Telangana 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“, Telangana State (MIDH, Assisted Poly House) 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 Poly House and verify the related records at any time during the economic life of the Poly House 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)

PROCEEDING OF THE DISTRICT COLLECTOR,

DISTRICT

Present :

Proce.No. State Cell-I/ G.H / / 2016,

Dt. 2016.

Sub:- Horticulture Dept- District – State Cell – 2016-17 –
Construction of Poly Houses under Protected Cultivation –
Administrative Sanction Orders - Issued.

Ref: 1. Annual Action Plan 2016-17.

2. **Application of Sri..... S/o.,**
.....(V),(M),.....District received
through H.O.,,

3. Note Approved by the District Collector,Dist. **Dt.**
.....

&&&

ORDERS:

Sri....., S/o.,(V),
.....(M), DISTRICT Sy.No....., he has been
selected as beneficiary for Construction of Poly House under Protected
Cultivation of State Horticulture Mission -2016-17 for**Sqmt** and the
eligible subsidy is 50% of the total Cost subject to a maximum limited to
4000 Sqmts for each beneficiary.

In view of the above, Administrative sanction is hereby accorded to
you for Construction of Poly House under Protected Cultivation under State
Horticulture Mission -2016-17 for the construction of, **Sqmt** and
the eligible subsidy is 50% of the total Cost subjective a maximum limited to
4000 Sqmts for the beneficiary duly following the conditions furnished here
under to release subsidy by the Department of Horticulture.

The subsidy will be released subject to the following terms &
conditions:-

1. The farmer should follow the Technical Specification for construction of Poly House under Protected Cultivation issued by the MIDH as follows.
2. The farmer should display the board and place in front of the Poly house. The Logo of NHM and the matter mentioned below.



**Financial Assistance by MIDH/Department of Horticulture
TELANGANA STATE**

Name	:	S/o	:
Village	:	Mandal	:
District	:	Component	:
Area In Sqmt	:	Assistance	:
		Year of Sanction	:

3. The farmer should obtain a certificate undertaking with the following matter from Poly House fabricated firm “Certified that the material supplied and Construction of Poly house is as per the guidelines and standard fixed by the MIDH and the area constructed in ----- Sqmts in the field of Sri/ Smt_____ S/o, W/o. _____ in _____ Village of _____ Mandal of _____ DISTRICT. ”
4. The farmer should submit affidavit on Rs. 100/- Stamp Paper with notary about the Poly House constructed by him (Copy enclosed).
5. The beneficiary should undergo 7 days training as per the Schedule given by the PD/DD.
6. Farmer is responsible for the installation of the Poly House and for the payment to the fabricator.
7. After completion of work, the subsidy will be released to the farmers based on the recommendation of PD/DD along with the Joint Inspection team certificate.
8. Subsidy will be released through online transfer to the beneficiary through the PD/DD, after joint inspection by the committee members.

(APPROVED BY THE DISTRICT COLLECTOR,DISTRICT)

Project Director/Deputy Director

..... DISTRICT.

To

Sri..... S/o., (V), (M)
..... DISTRICT

Copy to Horticulture Officer,....., DISTRICT



Cultivation of Horticulture crops under Poly House

Format - IV**Dt:2016**

To
Project Director/Deputy Director
..... District

COMPLETION & UNDERTAKING

This is to certify that as per the guidelines and technical standards of MIDH the construction of Poly House was completed. The following materials were supplied for construction of Poly House in an area of sq.mtrs in..... survey no..... . of Sri....., S/o.....,(V),(M), District

S.No	Name of the Item	Quantity	Rate	Total Amount
1				
2				
3				
4				
5				
	Total			

Signature of Farmer:**Signature :****Name:****Seal :****Cell No. :**

Constitution of Joint Inspection Committee for Poly House & Planting Material (Flowers & Vegetables) under Protected Cultivation:-

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

1. PD / DDH
2. Assistant Director of Horticulture (concerned)
3. Horticulture Officer (Concerned)
4. MI Engineer.
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, PD/DD shall give reasons for not attending the joint inspection.

Format – V

FORMAT TO CONDUCT FINAL AND JOINT INSPECTION OF POLY HOUSE / SHADENET HOUSE BY THE COMMITTEE UNDER PROTECTED CULTIVATION COMPONENT OF MIDH THROUGH STATE HORTICULTURE MISSION OF TELANGANA STATE										
Name of the Component : POLY HOUSE / SHADENET HOUSE										
Sl. No.	Name of the Farmer & Address	Category	Village	Mandal	Survey No.	Area in Sq.mtrs.	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

Note : Separate Joint inspection report has to be furnished HO wise for Poly House / Shadenet House.

Certificates:

- 1) This is to certify that the above farmer has installed Poly House / Shadenet House under Protected cultivation as per the Technical standards of MIDH.
- 2) This is to certify that all the original purchase bills of the items for Expenditure incurred have been verified and found correct.
- 3) This is to certify that the above farmer is eligible to avail subsidy of Rs. _____/-.
- 4) The subsidy amount of Rs. _____/- may be released to the said beneficiary

Promoter

Project Engineer

HO

ADH

PD/ DDH

B. Planting Material

Cost of Planting Material of High Value Vegetables & Flowers grown in Poly Houses

Cultivation of High value Vegetables & Flowers is cost intensive hence provision is made for meeting the cost of cultivation under Poly Houses & Shade net houses which includes cost of planting material and inputs.

Terms & Conditions:

- Assistance should be extended for High value flowers and vegetables under Poly houses.
- Preference may be given to the farmers who have availed assistance for erection of Poly House under MIDH.
- DMC approval has to be obtained for the identified beneficiaries.
- Subsidy will be released through online transfer after joint inspection by the committee members and also uploading the bills and field photos in Hortnet.
- **In case if the same farmer utilizes both the subsidies under Poly House and Cost of Planting material, a display board depicting logo of NHM and “Department of Horticulture” & MIDH assisted Poly House with planting material should be displayed. If the farmer has erected Poly House without any assistance from MIDH then the board should depict logo of MIDH assisted planting material.**
- Documentation through photo graphs at the time of planting and at the time of harvesting.
- Photographs should clearly depict the unit, plant material grown, Display board, farmer and all members of joint inspection team.
- The District officer should send DMC approval to Head office for releasing financial assistance.

Indicative cost for Cultivation of Flowers & Vegetables under Poly Houses Recommended by the State Level Technical Committee(SLTC):

Sl. No	Crops		Total Unit Cost (Rs. /Sq.mtr)	Pattern of Assistance (Rs./ Sq.mtr)
1	Vegetables	Capsicum	Rs. 140/-	50% of cost limited to 4000 sq.mtr per beneficiary
		Tomato	Rs. 140/-	
2	Flowers	Rose	Rs. 157.50/-	50% of cost limited to 500 sq.mtr per beneficiary
		Gerbera	Rs. 270/-	50% of cost limited to 4000 sq.mtr per beneficiary
		Carnation	Rs. 610/- (As per MIDH)	

Component wise indicative cost of planting material and input of high value vegetables grown in poly houses: (500 sq.mtrs)

S. No.	Description	Amount	Unit Cost
1	Bed Preparation & Seed / Plant Material	20000	Rs.140/- Sq.Mt.
2	Trellies	8500	
3	Fertilizers	20000	
4	PP Chemicals	8500	
5	Mulching	6000	
6	Labour cost (Weeding, Pruning, Training)	7000	
		70000	

The HO / PD/DD should obtain required documents / bills for all the above components for release of assistance.

Component wise indicative cost of planting material and input of flowers for poly houses

S. No.	Description	Rose for 3500 plants in 500 Sq.mts.	Gerbera for 3500 plants in 500 Sq.mts.	Carnation for 10000 plants in 500 Sq.mts.	Orchid & Anthurium for 4000 plants in 500 Sq.mts.	Unit Cost (Rs. /Sq.Mt) As per recommendation by SLTC
1	Plant material	100000	110000	100000	155000	For Rose Rs.157.50/- Sq.mt.
2	Bed preparation	15000	15000	15000	15000	
3	Manures & Fertilizers	31500	50000	55000	50000	
4	Plant protection chemicals	31500	50000	55000	50000	For Gerbera & Carnation Rs.270/- Sq.Mt
5	Pruning Harvesting	20000	40000	40000	40000	
6	Intercultural operations	15000	40000	40000	40000	
	Total	213000	305000	305000	350000	for Orchid & Anthurium Rs. 700/- sq.mtr (as per MIDH guidelines)

The HO & PD/DD should obtain required documents / bills for all the above components for release of assistance.

**WORK FLOW & CHECK LIST FOR DOCUMENTS TO BE SUBMITTED FOR
AVAILING SUBSIDY FOR PLANTING MATERIAL**

Sl.No.	Description	Documents to be submitted by / Action to be taken
1	Application Form –Format-I	Farmer HO/Farmer
2	Soil & Water Analysis Water Report.	
3	Pattadar Pass Book Copy	
4	Registration in hortnet	
5	District Mission Committee Approval	District Officer
6	Issue of Administrative Sanction	District Officer
7	Planting	Farmer
8	Submission of bills / invoices	Farmer / HO
9	Constitution of Joint Inspection Committee	District Officer
10	Joint Inspection Report – Format -V	Committee Members
11	Sending of joint inspection report to State office for release of Subsidy	District Officer
12	Obtaining DHM approval for sanction and release of assistance	District Officer
13	Uploading the field photos and bills in Hortnet	District Officer
14	Online transfer of assistance to beneficiary	State MIDH Cell

Format – VI

FORMAT TO CONDUCT FINAL AND JOINT INSPECTION OF COST OF PLANT MATERIAL AND INPUT OF FLOWERS & HIGH VALUE VEGETABLES BY THE COMMITTEE UNDER PROTECTED CULTIVATION COMPONENT OF MIDH THROUGH STATE HORTICULTURE MISSION OF TELANGANA.											
Name of the Component :											
Sl. No.	Name of the Farmer & Address	Category	Village	Mandal	Survey No.	Area in Sq.mtrs.	Crop	No. of Plants	Expenditure incurred by the farmer (Rs.)	Subsidy recommended by the committee (Rs.)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

Note : Separate Joint inspection report has to be furnished HO

Certificates:

- 1) This is to certify that the above farmer has planted flowers / high value vegetables.
- 2) This is to certify that all the original purchase bills of the items for expenditure incurred have been verified and found correct.
- 3) This is to certify that the above farmer is eligible to avail subsidy of Rs. _____/-.
- 4) The subsidy amount of Rs. _____/- may be released to the above beneficiary.

FARMER

HO

ADH

PD/DDH

C. MULCHING

Mulching is a practice followed for conservation of moisture, to check weed growth and to improve the quality and quantity of Horticulture produce.

1. **Transparent mulch is recommended compared to black mulch as it creates congenial microclimate for crop root zone.**
2. **Soil temperature profile varies under transparent and black mulches and hence for deep rooted crops black mulch is recommended.**

Thickness of Film:

In plastic mulching, the thickness of mulch film should be in accordance with type & age of crops. Economics suggest that the film thickness should be the minimum possible commensurate with desired life & strength. The recommended thickness of mulch films for different crops is as under:

Thickness (microns)	Crops Recommended
20-25	Annual - Short duration crops
40-50	Biennial - Medium duration crops
50-100	Perineal - long duration crops & crops taken up in Pandals

Extent of Surface to be Covered under Film:

% Coverage	Crops Recommended
20-25	All creeper crops
40-50	Initial stage of orchard crops
40-60	Fruit crops & cucurbitaceous
70-80	Vegetables, Papaya, Pine apple etc.,
90-100	Soil Solarization

Mulching area should preferably be equivalent to the canopy of the plant (larger the canopy, larger the area of mulching and vice versa).

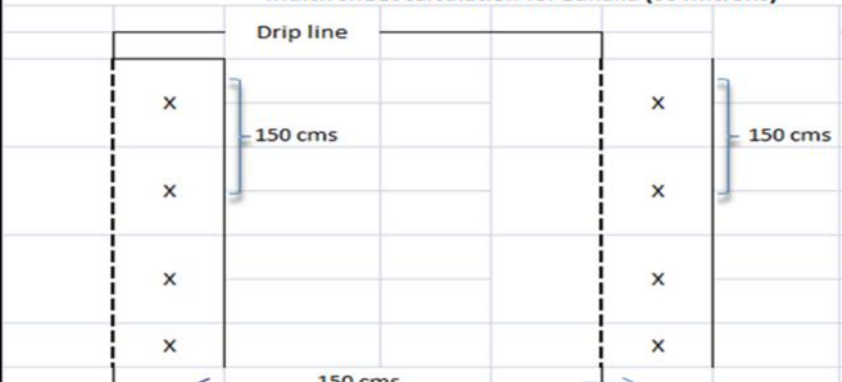
Calculation of Mulch Film Requirement (Approximately):

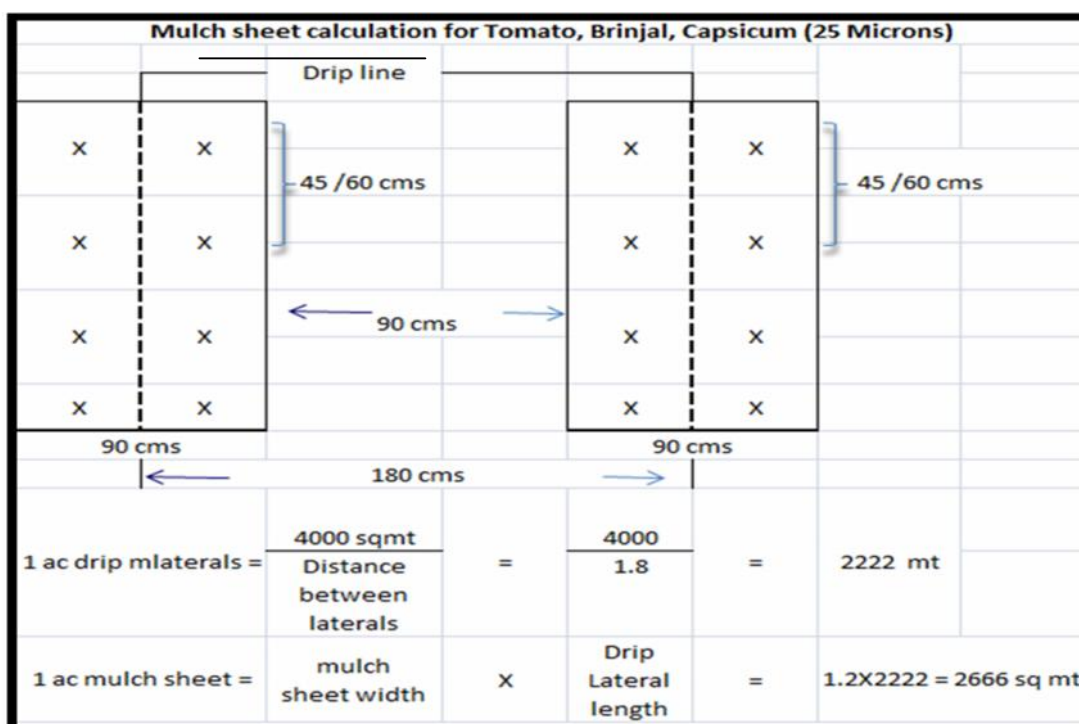
Thickness			Area coverage (m ² /kg)	Weight (Gram/m ²)
Micron	Gauge	mm		
7	28	0.007	144	6.9
20	80	0.02	54	18.4
25	100	0.25	42	23
40	160	0.04	26	38
50	200	0.05	21	46
100	400	0.10	11	93

Indicative Cost of Plastic Mulching:

On the basis of 80% coverage of area under the film, indicative cost of mulching for Horticulture crops would be approximately Rs. 32,000/- per ha.

Examples for calculation of requirement of Mulch Sheet :

Mulch sheet calculation for Banana (30 Microns)					
					
1 ac drip mlaterals =	$\frac{4000 \text{ sqmt}}{\text{Distance between laterals}}$	=	$\frac{4000}{1.5}$	=	2666 mt
1 ac mulch sheet =	mulch sheet width	X	Drip Lateral length	=	1.2X2666 = 3200 sq mt



Terms & Conditions:

- 1. Farmers will be given choice to procure the mulching sheet of their own choice by incurring full cost 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.**
2. Farmers once availed subsidy under this component is not eligible for the 2nd time.
3. 50% cost limited (limited to Rs. 16,000 / ha) with maximum limit is 2 Ha / Beneficiary.
4. 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.
5. A display board depicting “ department of Horticulture”
6. Only Horticulture crops are eligible for assistance.
7. DMC approval to be obtained for indentified 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 farmers.

9. Documentation with photographs after laying out of mulch sheet.
10. Application registration in Hortnet should be done by the concerned HO.
11. Uploading the bills and field photos in Hortnet should be done by the concerned HO/ADH for release of subsidy to the beneficiaries through online transfer.

**CHECK LIST FOR INSPECTION FOR RELEASE OF FUNDS UNDER
COMPONENT MULCHING**

Sl.No.	Description	Remarks (YES/NO)
1	Application of the farmers along with photos and relevant documents	
2	Existing crop and spacing	
3	Drip Irrigation system installed in the field	
4	Bills & Vouchers submitted	
5	Details of Beneficiaries were uploaded in the HORTNET	
6	DMC approval for sanction & release of funds	
7	Feedback of the farmers	
8	Remarks of Concerned Horticulture Officer	



Mulching

7. ORGANIC FARMING

	Organic Farming		
1	HDPE Vermi beds	Rs. 16,000/- per Unit	50% of cost conforming to the size of 96 cft (12'x4'x2') and IS15907:2010 to be administered on pro- rata basis.

1. HDPE VERMIBEDS

Specification: 12'X4'X2' Ft. of Agro Textiles- HDPE Woven beds with BIS standards (IS 15907:2010)

Total Cost: The total cost for HDPE Vermibeds including material is Rs. 9,000/-

Assistance: 50% assistance i.e. Rs.4,500/- @ Two vermibeds per beneficiary.

Sl.No.	Component	Total Cost in (Rs.)	Departmental Share in (Rs.)	Farmers Share in (Rs.)
1	HDPE Vermibed including transportation	3060	3060	0
2	12 Kgs Earth Worms + 2 1/2 Ton FYM	2500	1000	1500
3	Provision of Shade	3440	440	3000
Totals		9000	4500	4500

I. Firm - Rs. 3,060/-

II. Farmer - Rs. 1,440/-

Total Rs. 4,500/-

- The farmer is given choice for procurement of HDPE Vermibed as per the standards from companies empanelled by TSAIDC approved by Commissioner of Horticulture.
- Each beneficiary is eligible for Two vermibeds.
- Only horticulture farmers should be selected for assistance under vermibeds.
- Provision of shade by providing thatched shed is compulsory under tree shade.

- Farmer to install the vermibed and should procure the components required for preparation of Vermi compost in presence of HO/ HEOs only.
- ADH has to personally verified each bed before certification.
- Board showing details of the farmer and assistance provided should be displayed at the unit which is mandatory under MIDH schemes or at least flexi board.
- List of farmers along with photographs showing the vermibeds with full component installation in the farmers field should be furnished to this office.

Disbursement of Assistance:-

- 100% physical verification by the Horticulture Officer concerned and 100% of the units in each Horticulture officers jurisdiction should be inspected by the ADHs. 25% of the total units by DDHs before release of assistance.
- The cost of vermibed payment will be made by the head office to the concerned empanelled firms.
- The ADHs are requested to place the indents to the empanelled firms as per the physical targets given in the Annual Action Plan 2016-17.
- After supply of vermibeds by the concerned firms, the Horticulture Officer should supervise during installation and filling the material with FYM & Worms available with KVKs or any other agencies or farmers and required shade to be provided to the vermibed.
- The ADHs are requested to upload the bills, beneficiaries along with the photographs in Hortnet and the same to be forwarded to Head office along with the beneficiary list with DMC approval for payment to concerned firm. The remaining subsidy amount will be released to the concerned ADHs from head office for online transfer to the beneficiary account.



Vermi Bed

The District officers are requested to send the following information in the annexure prescribed below which is mandatory for release of subsidy along with proposal from concerned District officer & DMC approval.

RELEASE – ANNEXURE																	
S. N o	COMPO NENTS / CROPS	U ni t	Assis tance (in Lakh)	Target Allotted		No. of beneficiaries entered in ED login of HORTNET for which release is now requested				No of Units achieved and entered in ED login of HORTNET for which release is now requested (Ha.)				Amount To be Released as per entry in ED login of HORTNET and DMC approval (Rs.)			
				P H Y (H a)	FIN (Rs. in Lak hs)												
						G e n	S C P	T S P	To tal	G e n	S C P	T S P	To tal	G e n	S C P	T S P	To tal
1																	
2																	

Checklist for Inspection under HDPE Vermibeds for release of funds

S.No.	Criteria	Remarks
	<u>VERMIBEDS</u>	
1	Size of the vermibed is 12 x 4 x 2 ft of Agro Textiles-HDPE Woven beds with BIS standard (ISO 15907:2010)	
2	Vermibed contains FYM and Earthworms	
3	Vermibed is provisioned with thatched shed/ polythene sheet for shade with flexi banner	
4	Photographs have to uploaded to HORTNET during erection and after erection	
5	Date of approval of DMC	
6	Crops to which Vermi compost is being utilized	

8. INTEGRATED POST HARVEST MANAGEMENT

Specific programmes which would be taken up under MIDH would include establishment of pack houses, cold storage units, supply of refrigerated vans, primary/mobile processing units, ripening chambers. All these projects will be entrepreneur driven through commercial ventures for which Governmental assistance will be credit linked back-ended.

Subsidy in accordance with the cost norms given to PSUs and State Government agencies, Cooperatives, growers' association, farmers group, self-help groups, women farmers groups, recognized/registered by the DMCs, having at least 25 members, will also be entitled to avail assistance for such activities to the same extent. However, assistance will not be credit linked for such agencies but would be back ended subject to condition that they are able to meet their share of the project cost.

Assistance for setting up of new cold storage/ CA Storage/ MA storage will be available only to multi-chamber cold storage units with latest/new technologies, which are energy efficient with provision for insulation, humidity control, advanced cooling systems etc., having specifications and standards approved by the Ministry as detailed in the website. www.nhm.nic.in / www.midh.gov.in -> revised guidelines -> technical standards for cold storages.

STEPS TO BE FOLLOWED IN GENERAL:

1) At the time of receiving the proposal from promoter at the DDH office

- 1) Application along with synopsis should be in prescribed format duly signed by the promoter.
- 2) The documents to be submitted for that particular component are to be verified as per the check list.
- 3) All the project proposals should be numbered in print / ink with index showing the contents as mentioned in check list.
- 4) Issue of acknowledgement to the promoter.

2) Verification in DDH office.

- 1) Application should be verified that all the columns are properly filled with the signature of the promoter.
- 2) The documents are to be verified as per the check list and the check list should be duly signed by the DDH for onward submission to State cell.

- 3) If any documents are missing the promoter should be asked to submit the pending documents within one week.
- 4) After receipt of all documents DHM approval has to be obtained.
- 5) The DDH should forward the project proposals in 3 sets (Cold Storages / Ripening Chambers / Primary Processing units / Reefer Vans) along with the check list duly signed by the DDH. If any documents are not submitted proper justification has to be given for not submitting the documents.
- 6) As the bank consent letter, bank appraisal report and affidavit are most essential documents, the DDH should verify these documents with originals and DDH should attest the duplicate copies before submitting the project proposals to this office.

3) After Issue of Administrative Sanction And Execution of The Project

- 1) Preliminary inspection report in the prescribed format has to be submitted by DDH along with bank disbursement statement to state cell for release of subsidy.
- 2) Periodical inspection at different stages of execution.
- 3) DDHs have to give confirmation regarding the suggestions / remarks given by the technical consultant in techno economic viability report.
- 4) DDHs to inform the promoters for taking up of energy audit after the unit is completed. Energy audit should be taken up by the certified energy auditors by Bureau of energy efficiency Ministry of Power (GOI)
- 5) DDH has to forward the energy audit report to State cell and should recommend for constitution of joint inspection team.

4) Joint Inspection

- 1) It is the responsibility of the DDH to coordinate with all the members as constituted in the team for conducting joint inspection.
- 2) The relevant proformas should be properly filled and subsidy has to be recommended for release.

5) MONITORING

- 1) The ADH should periodically visit and inspect the unit to see that whether the unit is being utilized for the purpose for which it is sanctioned.

6) Time Frame For Implementation of PHM Projects

Sl.No.	Component	No. of days
1.	Verification of project proposal with check list	10 days from the date of receipt of proposal
2.	Intimation to the promoter if all documents are not submitted	
3.	Inspection by HO / ADH	
4.	Obtaining required documents from if any promoter as per check list	Within 7 days after verification of the application
5	Application form filing in hortnet	Within 7 days after getting application form with full details
5.	Obtaining DMC approval	
6.	Forwarding to State cell	Within 2 days after obtaining DMC approval
7.	Techno Economic Viability Study by the Technical consultant	Within 15 days
8.	After obtaining Techno Economic Viability Report – Project to be placed in EC of State MIDH cell.	
	After the project is approved in EC of State cell & MIDH and after issue of Administrative sanction	
9.	Preliminary inspection report uploading in Hortnet recommending release of 1 st installment	Within one week after issue of administrative sanction
10.	Periodical inspection by ADH	Monthly intervals
	After completion of the project (After the promoter has taken up all suggestions given by technical consultants in techno economic viability report and after the energy audit is completed)	
11.	ADH to recommend for constitution of joint inspection	Within 3 days after completion of the project in all aspects
12.	After joint inspection team is constituted ADH to coordinate with all the members and arrange for joint inspection	Within 7 days after constitution of joint inspection.
13.	Submission of joint inspection report	Within 3 days after completion of joint inspection
14	Uploading the bills and photos in hortnet for release of subsidy	Within 3 days after completion of joint inspection

PATTERN OF ASSISTANCE

Sl. No.	Component	Unit cost	Pattern of Assistance
1	Integrated pack house with facilities for conveyer belt, sorting, grading units, washing, drying and weighing.	Rs. 50.00 lakh per unit with size of 9Mx18M	Credit linked back-ended subsidy @ 35% of the cost of project in general areas and 50% of cost in case Hilly & Scheduled areas for individual entrepreneurs
2	Cold storage units Type 1 - basic mezzanine structure with large chamber (of >250 MT) type with single temperature zone	Rs. 8,000/MT, (max 5,000 MT capacity)	Credit linked back-ended subsidy @ 35% of the cost of project in general areas and 50% of cost in case Hilly & Scheduled areas for individual entrepreneurs.
3	Ripening chamber	Rs. 1.00 lakh/MT.	Credit linked back-ended subsidy @ 35% of the capital cost of project in general areas and 50% in case of Hilly & Scheduled areas for a maximum of 300 MT per beneficiary.
4	Refrigerated Transport vehicles	Rs. 26.00 lakh for 9 MT (MIDH & HMNEH)	Credit linked back-ended subsidy @ 35% of the cost of project in general areas and 50% of cost in case Hilly & Scheduled areas for individual entrepreneurs.
5	Primary / Mobile/ Minimal processing unit	Rs 25.00 lakh/unit	Credit linked back-ended subsidy @ 40% of the capital cost of project in general areas and 55% in case of Hilly & Scheduled areas.
6	Evaporative / low energy cool chamber (8 MT)	Rs. 5.00 lakh/unit	50% of the total cost.
7	Low cost onion storage structure (25 MT)	Rs. 1.75 lakh/per unit	50% of the total cost.



S.L.N.S. Cold Storage, Nizamabad



Sri Ganesh Cold Storage, Mudigonda, Khammam



Sapthagiri Cold Storage, Warangal



Golden Agri Solutions Cold Storage, Velugumatla, Khammam



M/s. Star Banana Ripening Chamber, Karimnagar



M/s. Amrutha Ripening Chamber, Khammam



STEPS TO BE FOLLOWED (PROJECT WISE):

Cold storages / Ripening chambers

- The project proposals should be in accordance with technical standards of MIDH www.nhm.nic.in/ / www.midh.gov.in -> revised guidelines -> technical standards for cold storages.
- As per the directions of the MIDH the projects shall be recommended as per the following component wise cost.

Sl.No	Item	% of the project cost (range)
1	Civil construction	50-55
2	Thermal insulation	10-15
3	Refrigeration system	20-25
4	Electrical system	10-15

- The DDH shall obtain the coefficient of performance sheet in respect of electricity / refrigeration load from promoter and submit the same to State cell for conducting energy audit by the technical consultant and also ADH shall see that data logger / PLCs are installed by the promoter as mentioned in technical standards
- As the following documents are mandatory the DDH shall obtain the same for seeking techno viability advice before placing the project in SLEC:
 1. Heat load calculation sheet during loading period, pull down period, holding period in accordance to technical standards and guidelines duly certified by the engineer.
 2. Detailed coefficient performance sheet during peak load, holding period and lean period duly certified by the engineer.
 3. Layout of the proposed cold storage unit in accordance to the statutory building by laws and building codes and standards duly approved by a registered architect and structural engineer.
 4. Technical data sheets of each equipment namely compressors, condensers, cooling towers, Air cooling units giving general layout, dimensions, material of construction, rated capacity, operating parameters and COP duly certified by respective equipment manufactures with respect to relevant codes and standards.
- The ADH shall also see that additional compressors and humidifiers are installed in multi chambered Cold Storage to have at least 10% of space for storage of Fruits & Vegetables, as most of the cold storages are

proposed for storing chillies, tamarind and agriculture produce. The non-providing of space in cold storage for storage of fruits & vegetables is being pointed out in almost all Techno Economical Viability Study reports.

- The project proposal received in State cell from the DDH with all the above required documents shall be forwarded to the technical consultants for Techno economic Viability study.
- The project proposals that are economically and technically viable shall be placed before the SLEC for approval.
- The project proposals that are approved by the SLEC shall be forwarded to the MIDH for placing in the EC for approval.
- In principal Sanctions shall be issued to the projects that are sanctioned by the EC.
- The ADHs after receiving the In principal sanctions, shall inspect the site and submit the preliminary report in the Format-IX (B)/CS/RC mentioning the status and progress of the project work duly recommending for the release of 1st installment subsidy to the concerned bank.
- ADH should also upload the preliminary report and photos in Hortnet for release of credit linked back ended subsidy.
- Basing on the preliminary report of the DDH concerned the State cell shall release 1st installment subsidy to the concerned bank of the promoter through HORTNET.
- After completion of the project and energy audit, the DDH shall recommend through a letter for joint inspection of the project along with bank disbursement statement / completion letter from Banker duly enclosing the energy audit report.
- After obtaining permission from state office, the DDH shall conduct Joint Inspection with the following committee members:
 1. Commissioner of Horticulture / Sr. Officer from Head Office.
 2. TSG Member
 3. Dy. Director of Horticulture (Concerned)
 4. Assistant Director of Horticulture concerned.
 5. Horticulture officer concerned.
 6. Banker
 7. Promoter

The committee shall submit Joint inspection report in the prescribed Format for Cold Storage and Ripening Chamber along with the original company bills of purchase of the project machinery.

ADH shall upload the bills and photos in HORTNET for release of 2nd installment of subsidy. Based on the recommendations of the Committee, the final installment of the subsidy shall be released to the concerned bank of the promoter.

A. COLD STORAGE UNITS

Under MIDH norms a beneficiary may apply for construction and expansion of cold storages up- to 10000 MT storage capacity. State Horticulture Missions shall accept projects of capacity 5000MT and below and National Horticulture Board shall accept projects of capacity larger than 5000MT. The cost norms vary depending on scale of storage capacity.

For the purpose of these guidelines, 3.4m³ (cubic meter) or 120 cubic feet of temperature controlled storage space created shall be equivalent to 1 MT (metric ton) of storage capacity, irrespective of the product stored.

Cold storage type 1: Are cold stores with large chambers (>250MT each), each designed for single product storage. These types of stores are designed for bulk long term storage (potato, spices, pulses, etc.). This storage has handling system for unpackaged or soft packaged produce, or produce stored in bags or bins (non-retail packaging). Produce on exiting such stores have to undergo bulk shipping to processing plants or subsequent packaging process for making consumer retail packages. These are seen to be primarily brick & mortar structures with multi- layered fixed or mezzanine floors. They incorporate small handling area or open sheds designed for one time seasonal loading (during harvest season), and for smaller volume off-loading to serve specific buyer demand. They must incorporate air monitoring and ventilation mechanism for controlled air replenishment, enabling them to counter produce induced modified atmospheric parameters inside the storage chambers.

Cold Storage unit Type 2: Are cold stores with more than 6 chambers, each chamber of less than 250 MT in capacity, with each chamber having independent room based controls and refrigeration so as to make them capable of serving at differing temperature zones, suitable for storing multiple temperature type commodities. Each chamber is designed for unitized load handling with basic material handling equipment and construction is normally seen to be of modern PEB type with composite panels. These types of stores are primarily designed for short term storage, used as distribution hubs for packaged and ready to retail produce, as front ends market links as part of the cold-chain. Such stores will have large temperature controlled anterooms (non-storage area) designed to handle under roof traffic for multiple receipt and dispatch operations and will additionally have basic material handling equipment such as pallet lifts, fork lifts, etc. This type of cold store construction is also used for modern farm-gate storage of perishables and where applicable can also apply for certain add-on technologies to make some chambers capable of controlled atmosphere (CA enabled) storage.

The extant guidelines, standards and data sheets, as published by NHB on behalf of Department of Agriculture and Cooperation, for cold storage projects have been incorporated.

The applicable support to both types of cold stores is as follows:

Credit Linked back-ended

Subsidy 35% of project cost (general areas); 50% in Hilly and scheduled areas	Cold Store Type 1: Basic, large chambers (of >250 MT each) for single product storage / temperature zone	Rs.8000/MT for max capacity 5000MT (NHM)
		Rs. 7600/ MT for capacity 5001 to 6500 MT (NHB)
		Rs.7200/MT for capacity 6501 to 8000 MT (NHB)
		Rs. 6800/MT for capacity 8001 to 10000 MT (NHB)

Credit Linked back-ended

Subsidy 35% of Project cost (general areas): 50% in Hilly and scheduled areas	Cold Store Type 2: multi- product use, >6 chambers (of <250 MT each) for various product types with basic material handling equipment	Rs.10000/MT for max capacity (NHM)
		Rs.9500/ MT for capacity 5001 to 6500 MT (NHB)
		Rs.9000/MT for capacity 6501 to 8000 MT (NHB)
		Rs. 8500/MT for capacity 8001 to 10000 MT (NHB)

Annexure-I**CHECK LIST FOR PROJECTS FOR COLD STORAGE & RIPENING
CHAMBER**

Sl. No.	DESCRIPTION	REMARKS
1	Application Form (Format – I)	
2	Basic Data Sheet with Complete Technical Specifications (Format – VI)	
3	Detailed Project Report as Per MIDH Guidelines	
4	Partnership Deed	
5	Firm Registration Certificate	
6	Bank Sanction Letter	
7	Bank Appraisal Letter	
8	Approval from Gram Panchayat	
9	Approval from Pollution Control Board	
10	SSI registration certificate	
11	Fire Department approval with Drawings	
12	Pan Card Xerox Copy	
13	Electricity approval	
14	KYC documents of all the partners	
15	VAT / CST REGISTRATIONS	
16	Land Conversion	
17	DMC Approval (District Mission Committee)	
18	Affidavit (Format – VII)	
19	Land Documents (Sale Deed / Lease Deed)/ Pattadar pass book copy	
20	Declaration by Engineer (Format – VIII)	
21	NOC from NABARD / NHB/ APEDA/ DIC / SFC and MFPI	

APPLICATION FORMAT

Cold Storage / Ripening Chamber

**FORMAT FOR SUBMISSION OF PROJECT BASED PROPOSALS POST
HARVEST MANAGEMENT BY PRIVATE SECTOR UNDER MIDH**

1. Name of Project :
2. Type of Activity :
3. Objectives :
4. Purpose (Details of crops stored in cold Storages / Ripening Chamber are also to be given) :
5. Location of the project with address :
 - a) Address for correspondence :
 - b) General area :
 - c) Hilly/Tribal area :
6. Constitution :

(Date of incorporation and relevant law alongwith a copy of articles and memorandum of association, bylaws, partnership deed and registration certificate whichever is applicable. Documentary proof regarding authorized / paid up capital and promoters contribution.)

- (a) Public Ltd. Company :
 - (b) Private Ltd. Company :
 - (c) Registered Society :
 - (d) Association :
 - (e) Federation :
 - (f) Producer Company :
 - (g) Proprietorship firm :
 - (h) Partnership concern :
7. Management :
8. Brief background of promoters :
 - a) Category / Caste :
 - b) Bank name & branch and date of sanction:
9. Cost of Project (Rs in lakhs) :
 - (a) Land- (if purchased new along with documentary proof)
 - (b) Building :
 - (c) Plant & Machinery :
 - (d) Contingencies :
 - (e) Miscellaneous fixed assets :
 - (f) Working Capital margin :
 - (g) Pre operative exp. -----

Total : -----

10. Means of Finance

- | | |
|--------------------|---|
| (a) Promoter Share | : |
| (b) Bank Term loan | : |
| (c) Subsidy | : |
| (d) Quasi equity | : |
| (e) Unsecured loan | : |

Total	:	-----
-------	---	-------

11. Details of Cost of Plant & Machinery/equipment supported by quotations.

12. Details of the Building construction and the cost duly certified.

13. Area of Operation with special reference to MIDH Districts to be covered.

14. Availability of raw material, name of the cluster and District along with the major crops.

15. Backward linkages with farmers with reference to either providing services or purchase of raw material.

16. Forward linkages -Analysis of domestic and export markets, tie up made for sale of Produce and branding aspect.

17. No. of farmers/ orchardist to be benefited.

18. SWOT Analysis.

19. Financial Analysis – IRR, NPW, Cost benefit Ratio, Breakeven point, DER, DSEI, Projected balance sheet etc.

20. Insurance of the fixed assets

21. Certificate from Pollution Control Department.

22. Name of the sponsoring bank along with the details of Techno-economical appraisal reports, copy of sanction letter and Detailed Project Report (DPR) as submitted to bank.

23. Affidavit of Rs. 100/- regarding Non-availing of subsidy from any other Central/State Govt. Departments.

24. Social benefits with special reference to employment generation.

- (a) Direct employment
- (b) Indirect employment
- (c) Women/S.T./S.C. employment

25. Details of the sustainability of the project with special reference to its Capacity to generate income since only one time grant is admissible.
26. Implementation schedule.
27. Amount of subsidy sought.
28. Production cluster should be identified near the existing infrastructure for pre harvest and post harvest, market and processing, Agri Export Zones (AEZ).
29. Linkages with infrastructure created by the private/ corporate sector in And around the clusters. A write up on the initiatives of the linkages between MIDH clusters and private sector initiative to be brought out.
30. Marketing arrangements for surplus produce inside and outside State/Country to be indicated.
31. List of machinery and equipment.

Signature of the promoter

Recommendations of the Asst. Director of Horticulture

_____.

Asst. Director of Horticulture

Note: Synopsis to be enclosed

Format – II (CS/RC)

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 project at _____ (location of the project) for _____ (activities to be undertaken by project) 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 project / 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 project / proposal / scheme are covered under the above scheme of MIDH and no part of the scheme / infrastructure of the project 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 project / 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 MIDH Cell of Telangana Govt. 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 Telangana 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 Project).

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 project and verify the related records at any time during the economic life of the project 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)

DECLARATION

I _____, R/o. _____ - certify that:

1. That I am a graduate engineer and have adequate experience / expertise in designing, Constructing and commissioning cold stores, insulation & cooling system and cold chain infrastructure equipment.
2. That a copy of my graduation / post graduation certificate of B.E. / B. Tech / M. Tech is enclosed and shall form part of my certification and declaration.
3. That I am the project / Technical Consultant and have been hired by the project promoter of M/s. _____ to design, conceptualize and prepare the project DPR bearing Ref. No.____.
4. That I am fully conversant with relevant codes and standards applicable to the cold chain infrastructure and affirm invariable compliance of the project to the above mentioned prescribed Technical Standards.
5. That I have thoroughly examined notification F. No. 45-64/2010-Hort dated 25.02.2010 for prescribed technical standards w.e.f. 01.04.2010.
6. That I certify that the components of insulation and refrigeration systems in the prescribed format of the technical data sheet conform the ratings and performance of selected equipments and proposed design as per the prescribed Technical Standards w.e.f. 01/04/2010 vide notifications F. No. 45-64/2010-Hort dated 25.02.2010.
7. That I undertake to adhere to the requirements of confidentiality and non-compete with respect to proprietary information entrusted to me by the promoter/manufacturer of equipment / the Board.

8. That I will assist the Government inspection and regulatory agency during stage inspection of the project and provide any/or all technical clarifications as and when required.
9. That I will furnish a certificate of satisfactory commissioning of the cooling system in conformance to the performance indicators as per the prescribed standards.
10. That in case of any concealment of facts by me in the DPR with respect to invariable compliance to Technical Standards or on any instance of false declaration / certification by me or any part of my declaration is found to be incorrect, the Board may, in its discretion, take any actions (including legal action) against me as deemed fit and proper.

IN WITNESS WHEREOF, the consultant has signed this declaration and certification on this ____ Day of _____ 2014 in the presence of the following witnesses;

WITNESSES:

1.

(Sign of the Consultant)

PROPOSALS FOR ESTABLISHMENT OF COLD STORAGE

AT _____ DISTRICT _____

SYNOPSIS

1) Name of the Component & :

a) Sub-Component Applied for :

2) Title with Firm Details :

3) Purpose :

**4) Name of the Proprietor/ Promoter/ :
Partnership/ Pvt. Ltd. Company/
Society**

5) Details of Project Cost:

a) Bank Term Loan : Rs. Lakhs

b) Other Loan : Rs. Lakhs

c) Capital : Rs. Lakhs

Total Project Cost :Rs. Lakhs

6) Status of the Project:

a) Completed/ Under Construction :

b) If Under Construction Stage

Date of Commencement :

Probable date/ month of completion:

7) Breakup of the Project Cost:

a) Civil Works	:	Rs.	Lakhs
b) Plant & Machinery & Other	:	Rs.	Lakhs

Total	:	Rs.	Lakhs

8) List of Documents:

- a) Approval of the DHM (Dist. Collector) :
- b) Detailed project report (5copies) :
- c) Bank Approval Memorandum :
- d) Affidavit :
- e) Quotations for Supply of Plant & Machinery :
- f) Details of Civil & Technical Works :
Certified by Chartered Engineer
- g) Photos of unit :

9) Details of Estimated Cost & Subsidy as Per MIDH Norms:

- a) Estimated cost : Rs. Lakhs /Unit
- b) Subsidy : Credit linked back ended subsidy @
25% of the capital cost i.e., Rs. Lakhs/Unit.

Signature of the Promoter

Format – IV (A) (CS)

**Preliminary (Inspection Report) while submitting project to State
MIDH Cell.**

Date of Inspection:

- A Component :
- B **Details of Project** :
- (i) Name of the project :
- (ii) Address for communication with telephone No. :
- C **Project Location with Address** :
- (i). Survey No :
- (ii). Village :
- (iii). Mandal :
- D Constitution (Individual/ Joint Individual/Partnership Firm/ Company. :
- E (i). Proposed Activity : Cold Storage
- (ii). Type :
- (iii). Proposed type of cooling system :
- F Name of the Promoter :
- G **Present physical status of the project :**
- I. Construction started or not :
- (i) Land development status/boundary/road :
- (ii) Connecting road to the plot :
- (iii) Stage of cold store building civil/pre engineered as on inspection date :
- (iv) Type of produce to be stored :

Promoter HO ADH (Concerned) Dy. Director of Horticulture

Format – IV (B) (CS)

PRELIMINARY REPORT (Release of First Installment)

- A Component :
- B **Details of Project** :
- (i) Name of the project :
- (ii) Address for communication :
- with telephone No.
- C **Project Location with Address** :
- (i). Survey No :
- (ii). Village :
- (iii). Mandal :
- D Constitution (Individual/ Joint Individual/Partnership Firm/ Company. :
- E (i). Proposed Activity : Cold Storage
- (ii). Type :
- (iii). Proposed type of cooling system :
- F Name of the Promoter :
- G **Present physical status of the project :**
- I. **Construction started or not** :
- (i) . Land development status/boundary/road :
- (ii). Connecting road to the plot :

- (iii). Stage of cold store :
building civil/pre engineered
as on inspection date.
- (iv). Type of produce to be
stored

H **Bank Details :**

1. Bank Name :
2. Branch :
3. Bank Sanction Date :
4. Loan Account No :
5. Bank disbursement :
statement with A/c. :
No. :
6. Letter from Banker
(Subsidy Account no. given
by bank)

It is recommended to release 1st installment Rs. _____
(Rupees. _____ only) as credit linked back ended subsidy as
the construction of the unit was started.

HO

ADH(Concerned)

DDH

Format – V (A) (CS)**COMPONENT WISE RELEASES MADE BY THE BANKER FOR COLD STORAGE**

Name of the Firm :

District :

Place :

Account No & IFSC Code:

(Rs. In Lakhs)

Sl. No.	Particulars	Project Cost		Actual investment		Remarks
		As per project report	As appraised by Banker	Loan amount released by Banker	Promoters Margin money	
1	2	3	4	5	6	7
1.	Cost on Land					
2.	Civil Works					
3.	Cost on Building					
4.	Cost on Plant & Machinery					
5.	Ethylene Gas Generation System					
6.	Plastic Crates					
	Total:					

Bank Manager /
Representative
(Field Officer)
With Seal

Format – V (B) (CS)

**FORMAT TO CONDUCT FINAL AND JOINT INSPECTION BY THE
COMMITTEE FOR COLD STORAGE UNDER POST HARVEST
MANAGEMENT COMPONENT OF MIDH, TELANGANA.**

Name of the Firm:

District:

Place:

Sl. No.	Particulars	Project Cost		Actual investment		Re marks
		As per project report	As appraised by Banker	Loan amount released by Banker	Promoters Margin money	
1	2	3	4	5	6	7
I.	Means of Finance					
1.	Capital					
2.	Term Loan from Bank					
3.	Subsidy / Margin Money / Un-Secured Loans					
	Total:					
II.	Assessment					
1.	Cost on Land					
2.	Cost on Building					
3.	Cost on Plant & Machinery					
	Total:					

Recommended for release of subsidy of Rs. _____ Lakhs (Rupees in words)

- The promoter has fulfilled all the observations made in the technical report.

Promoter

TSG Member

Banker

HO

ADH (Concerned)

DDH

Sr. Officer

If the capacity is less than 5000 MT actual cost and capacity is considered for calculation.

Certificates:

1. This is to certify that the promoter has established cold storage as per the norms of the MIDH.
2. This is to certify that the promoter has fulfilled all the observations made in the tech. viability report.
3. This is to certify that the project is eligible to avail subsidy of Rs.

4. An amount of Rs._____ may be released as II spell.

Promoter

HO

Banker

TSG member

ADH(Concerned)

DDH

Sr. Officer

Format – V (C) (CS)

SUBSIDY CALCULATION SHEET

Name of the **Cold Storage**:

Total No. of Chambers:

Number of Floors:

Chamber – I						Chamber – II					
Particulars	Length	Width	Height	Volume in Cubic Meters		Particulars	Length	Width	Height	Volume in Cubic Meters	
A. Cellar						A. Cellar					
Less - Machine Room						Less - Machine Room					
Net Volume						Net Volume					
B. Ground Floor						B. Ground Floor					
Less Machine Room						Less Machine Room					
Less Office Space						Less Office Space					
New Volume						New Volume					
C. Floors						C. Floors					
Less Machine Room						Less Machine Room					
Net Volume						Net Volume					
D. Total Net Volume (A+B+C)						D. Total Net Volume (A+B+C)					
E. Total Area											
Chamber – I											
Chamber – II											
F. Capacity in terms											
Total volume / 3.4				MT		Maximum allowed (MT)	5000				
Total Cost of the Project				Lakh							
Cost per MT						Maximum allowed (Rs.)	6000				
Total Eligible Subsidy (40% of cost)						40% of (Capacity X per MT)					

If the capacity is less than 5000 MT actual cost and capacity is considered for calculation.

Certificates:

1. This is to certify that the promoter has established cold storage as per the norms of the MIDH.
2. This is to certify that the promoter has fulfilled all the observations made in the tech. viability report.
3. This is to certify that the project is eligible to avail subsidy of Rs.

4. An amount of Rs._____ may be released as II spell.

Promoter

HO

Banker

TSG member

ADH(Concerned)

DDH

Sr. Officer

FORMAT V - (D) (CS)

Detailed Report on Cold Storage at the time of final and Joint Inspection

Date of Inspection:

S.No		Information at the time of Inspection	Remarks
1.	(i)Name of the project (ii)Address for communication with telephone No. (iii) Project location with address (iv) Constitution (Individual/ Joint Individual/Partnership Firm/ Company.		
2.	Proposed Activity Type Proposed type of cooling system	Cold Store	
3.	Name of the Promoter		
4.	<u>Present physical status of the project</u> 4A. Date of start (i) Land development status/boundary/road (ii) Connecting road to the plot (iii) Stage of cold store building civil/pre engineered as on inspection date (iv) Installation of power transformer/electricity supply equipment (v) Installation of Refrigeration cooling system (vi) Type of produce (vii) Whether cold storage is functioning. (viii) Size of the Cold Storage (ix) No. of Chambers (x) Size of each Chamber (xi) Chamber-1 in ft (xii) Chamber-2 (xiii) Chamberr-3 (xiv) Chamber-4 (xv) Size of Machinery Room	Remarks (in detail) ➤ ➤ ➤ ➤ ➤ ➤	

5	Technical Details		
	Type of Compressor		
	Make /Model No./ Make Serial No.		
	Motor Type Capacity of the Motor in H.P Make		
	Refrigeration Capacity in Kw/TR		
	Total No. of Compressors Installed		
	Total No. of Motors Installed		
	Total Capacity of Motors in HP		
	Type of Evaporative Coils		
	Total No. of AHU's Installed		
	No. of Fans per Unit		
	Capacity of AHU in Kw/TR		
	Total Capacity of AHU's In TR		
	Type of Condenser		
	Capacity of Condenser in TR		
6	1.Humidifiers : Present / Not present 2. Make / Model No. 3. Type of Humidifiers	: : :	
7	Type of Doors		
A	Thickness of Insulation		
B	Insulation Material Used for the Door With Density		
8	Generator Make Model No. Capacity in KV		
9	Material Handling Lift Capacity		
10	Thickness of the Walls		
11	Type of Insulation used for walls Wall insulation Thickness/ Density Vapor Barrier used –Details		
12	Floor Insulation Type Thickness		
13	Ceiling Insulation Material used Thickness Recommendation of Pre Inspecting Officer		
14	Capacity of Transformer		
15	Fire Safety Devices installed or not		
16	Type of Commodities Stored		

17	Brief info on the Market Potential		
18	Any other Information		

Promoter

HO

ADH

DDH

Technical Consultant

Senior Officer (Concerned)

B. RIPENING CHAMBERS/ UNITS

Background Facts

It is also noticed that ripening chambers which are being set up under various schemes of horticulture development, do not adhere to appropriate technical standards. Main shortcomings noticed are as follows-

- Inadequate building design;
- Use of inadequate / unreliable insulation material with insufficient K value
- Use of obsolete and energy inefficient refrigeration units
- Lack of uniform air flow circulation system
- Lack of controlled conditions and technology for ethylene, temperature and relative humidity
- Lack of proper ventilation systems and exhaust fans for CO₂ emission
- Lack of monitoring and control system and display devices;
- Use of unsafe electrical devices

It is therefore, necessary to prescribe appropriate technical standard in respect of modern, pressurised fruit ripening units which are given in following chapter.

I. Technical Parameters for Pressurized Ripening Chamber

Unless specifically otherwise mentioned, all the applicable latest codes and standards published by the Bureau of Indian Standards and all other standards, shall govern in all respects of design, workmanship, quality, properties of materials, method of testing and method of measurements. Generally relevant 'IS specification' and 'Code of Practices' shall be used for all electrical, mechanical and civil works/installation, however, wherever IS code is not available, relevant standard codes of ASME /ASHRAE / IIAR or other International Codes are to be followed. Latest revisions will be followed in all cases. Even for Ripening of Fruits and Vegetables' the process as recommended by IS Standards (e.g. IS11977 of 1987 for ripening of green banana) or as per International Standards should be followed. For further guidance, following technical parameters may be followed:

Storage capacity of ripening chamber may depend on fruits to be ripened & stacking and air-flow system. In this context, banana may be taken as reference crop for calculation of storage capacity for a given volume of storage space.

PROPOSALS FOR ESTABLISHMENT OF _____

AT _____ DISTRICT _____

SYNOPSIS

1) Name of the Component & :

a) Sub-Component Applied for :

2) Title with Firm Details :

3) Purpose :

**4) Name of the Proprietor/ Promoter/ :
Partnership/ Pvt. Ltd. Company/
Society**

5) Details of Project Cost:

a) Bank Term Loan : Rs. Lakhs

b) Other Loan : Rs. Lakhs

c) Capital : Rs. Lakhs

Total Project Cost : Rs. Lakhs

6) Status of the Project:

a) Completed/ Under Construction :

b) If Under Construction Stage

Date of Commencement :

Probable date/ month of completion :

7) Breakup of the Project Cost:

a) Civil Works : Rs. Lakhs

b) Plant & Machinery & Other : Rs. Lakhs

Total	:	Rs.	Lakhs
--------------	----------	------------	--------------

8) List of Documents:

- a) Approval of the DHM (Dist.Collector) :
- b) Detailed project report (5copies) :
- c) Bank Approval Memorandum :
- d) Affidavit :
- e) Quotations for Supply of Plant & Machinery :
- f) Details of Civil & Technical Works :
Certified by Chartered Engineer
- g) Photos of unit :

9) Details of Estimated Cost & Subsidy as Per MIDH Norms:

- a) Estimated cost :Rs. Lakhs /Unit
- b) Subsidy :Credit linked back ended subsidy @
25% of capital cost i.e., Rs. Lakhs/Unit.

Signature of the Promoter

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 project at _____ (location of the project) for _____ (activities to be undertaken by project) 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 project / 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 project / proposal / scheme are covered under the above scheme of MIDH and no part of the scheme / infrastructure of the project 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 project / 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 MIDH Cell of Telangana Govt 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 Telangana 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 Project).

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 project and verify the related records at any time during the economic life of the project 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)

Format - III

DECLARATION

I _____, R/o. _____ - certify that:

1. That I am a graduate engineer and have adequate experience / expertise in designing, Constructing and commissioning cold stores, insulation & cooling system and cold chain infrastructure equipment.
2. That a copy of my graduation / post graduation certificate of B.E. / B. Tech / M. Tech is enclosed and shall form part of my certification and declaration.
3. That I am the project / Technical Consultant and have been hired by the project promoter of M/s. _____ to design, conceptualize and prepare the project DPR bearing Ref. No.____.
4. That I am fully conversant with relevant codes and standards applicable to the cold chain infrastructure and affirm invariable compliance of the project to the above mentioned prescribed Technical Standards.
5. That I have thoroughly examined notification F. No. 45-64/2010-Hort dated 25.02.2010 for prescribed technical standards w.e.f. 01.04.2010.

6. That I certify that the components of insulation and refrigeration systems in the prescribed format of the technical data sheet conform the ratings and performance of selected equipments and proposed design as per the prescribed Technical Standards w.e.f. 01/04/2010 vide notifications F. No. 45-64/2010-Hort dated 25.02.2010.
7. That I undertake to adhere to the requirements of confidentiality and non-compete with respect to proprietary information entrusted to me by the promoter/manufacturer of equipment / the Board.
8. That I will assist the Government inspection and regulatory agency during stage inspection of the project and provide any/or all technical clarifications as and when required.
9. That I will furnish a certificate of satisfactory commissioning of the cooling system in conformance to the performance indicators as per the prescribed standards.
10. That in case of any concealment of facts by me in the DPR with respect to invariable compliance to Technical Standards or on any instance of false declaration / certification by me or any part of my declaration is found to be incorrect, the Board may, in its discretion, take any actions (including legal action) against me as deemed fit and proper.

IN WITNESS WHEREOF, the consultant has signed this declaration and certification on this ____ Day of _____ 2014 in the presence of the following witnesses;

WITNESSES:

1.

(Sign of the Consultant)

Annexure**CHECK LIST FOR PROJECTS FOR COLD STORAGE & RIPENING
CHAMBER**

Sl. No.	DESCRIPTION	REMARKS
1	Application Form (Format – I)	
2	Basic Data Sheet with Complete Technical Specifications (Format – VI)	
3	Detailed Project Report as Per MIDH Guidelines	
4	Partnership Deed	
5	Firm Registration Certificate	
6	Bank Sanction Letter	
7	Bank Appraisal Letter	
8	Approval from Gram Panchayat	
9	Approval from Pollution Control Board	
10	SSI registration certificate	
11	Fire Department approval with Drawings	
12	Pan Card Xerox Copy	
13	Electricity approval	
14	KYC documents of all the partners	
15	VAT / CST REGISTRATIONS	
16	Land Conversion	
17	DMC Approval (District Mission Committee)	
18	Affidavit (Format – VII)	
19	Land Documents (Sale Deed / Lease Deed)/ Pattadar pass book copy	
20	Declaration by Engineer (Format – VIII)	
21	NOC from NABARD / NHB/ APEDA/ DIC / SFC and MFPI	

RIPENING CHAMBERS

**Preliminary (Inspection Report) while submitting project to State
MIDH Cell.**

Date of Inspection:

- A Component :
- B **Details of Project** :
- (i) Name of the project :
- (ii) Address for
communication :
with telephone No. :
- C **Project Location with
Address** :
- (i). Survey No :
- (ii). Village :
- (iii). Mandal :
- D Constitution (Individual/
Joint :
Individual/Partnership :
Firm/ :
Company.
- E (i). Proposed Activity : Ripening Chamber
(ii). No of Chambers :
- F Name of the Promoter :
- G **Present physical status of
the project :**
- I. Construction started or not :
- (i) Land development
status/boundary/road

- (ii) Connecting road to the plot :
- (iii) Stage of Ripening Chamber building :
civil/pre engineered as on inspection date :
- (iv) Type of produce to be Ripened :
:

Promoter

HO

ADH (Concerned)

DDH

Format – IV (B) (RC)

PRELIMINARY REPORT (Release of First Installment)

- A Component :
- B **Details of Project** :
- (i) . Name of the project :
- (ii).Address for communication with telephone No. :
- C **Project Location with Address** :
- (i). Survey No :
- (ii). Village :
- (iii). Mandal :
- D Constitution (Individual/ Joint Individual/Partnership Firm/ Company. :
- E (i). Proposed Activity : Ripening Chamber
- (ii). Type :
- (iii). Proposed type of cooling system :
- F Name of the Promoter :
- G **Present physical status of the project :**
- I. **Construction started or not** :
- (i) . Land development status/boundary/road

(ii). Connecting road to the plot :

(iii). Stage of cold store building :
civil/pre engineered as on
inspection date.

(iv). Type of produce to be :
stored

H **Bank Details :**

1. Bank Name :
2. Branch :
3. Bank Sanction Date :
4. Loan Account No :
5. Bank disbursement
statement with A/c. :
No. :
6. Letter from Banker :
(Subsidy Account no. given :
by bank) :

It is recommended to release 1st installment Rs. _____
(Rupees. _____ only) as credit linked back ended subsidy
as the construction of the unit was started.

HO

ADH (Concerned)

DDH

**FORMAT TO CONDUCT FINAL AND JOINT INSPECTION BY THE
COMMITTEE UNDER POST HARVEST MANAGEMENT COMPONENT
OF MIDH, TELANGANA**

RIPENING CHAMBER

Format – V (A) RC

Name of the Firm:

District:

Place:

Sl. No.	Particulars	Project Cost		Actual investment		Remarks
		As per project report	As appraised by Banker	Loan amount released by Banker	Promoters Margin money	
1	2	3	4	5	6	7
I.	Means of Finance					
1.	Capital					
2.	Term Loan from Bank					
3.	Subsidy / Margin Money / Un-Secured Loans					
	Total:					
II.	Assessment					
1.	Cost on Land					
2.	Cost on Building					
3.	Cost on Plant & Machinery					
	Total:					

Recommended for release of subsidy of Rs. _____ Lakhs (Rupees
in words)

The promoter has fulfilled all the observations made in the technical report.

Certificates:

- 1) This is to certify that the promoter has established Ripening Chamber as per the norms of the MIDH.
- 2) This is to certify that the Ripening Chamber is eligible to availed subsidy of Rs.
- 3) An amount of Rs. _____ May be released as II spell

Promoter

Banker

HO

ADH(Concerned)

DDH

TSG (Member)

Sr. Officer

RIPENING CHAMBERS**Format – V (B) - RC****Name of the Firm:**

Sl. No.	Component of cost	Quantum	Unit
1.	Land		Sft
2.	Building		Sft
3. A	No of Chambers		
3. B	Chamber Size		
	a. Length		Ft
	b. Width		Ft
	c. Height		Ft
	d. Crates that can be accommodated of size 1.77'x1.28x1.08' (540x390x340 mm) at 10 crates longitudinally, 3 rows on either side of isle and 8 columns i.e. (10x3x8)*2 No's		No
4.	Fruit storage		
	a. Per Crate		Kgs
	b. Total for chamber		Kgs
5.	Insulation		
	a. PUF panels side and top and polysterene for floor		Sft
	b. Polysterene panels		Sft
	c. Thermocole/ Glass wool etc.		Sft
6.	Door		
	a. Hinged Doors		
	b. Sliding Doors		
	c. Electric operated top sliding door		
7.	Refrigeration		
	a. Direct cooling – Freon systems – 5 HP		Nos
	b. Direct cooling – Ammonia systems		Nos

Sl. No.	Component of cost	Quantum	Unit
	c. Water spray – Air Cooled systems		Nos
8.	Humidification		
	a. Humidifier		Nos
	b. Air cooled systems		
9.	Controls		
	a. Temperature and humidity		Nos
	b. Control panel for refrigeration system		Nos
10.	Ethylene Gassing System		
	a. Ethylene liquid dipping		Nos
	b. Ethylene gas generator		Nos
	c. Ethylene gas injection system		Nos
11.	Crates		Nos
12.	Pallets		Nos
13.	Trolley		Nos
14.	Deposits for Electricity etc.		Set
15.	Pre-Operative Expenses		Set
16.	Working Capital		Set

Promoter

Banker

HO

ADH(Concerned)

DDH

TSG (Member)

Sr. Officer

CALCULATION SHEET FOR RIPENING CHAMBER

Format – V (C) - RC

Name of the
Ripening
Chamber : **M/s.**
Total No. of
Chambers:

Chamber – I						Chamber - II					
Particulars	Length	Width	Height	Volume in Cubic feet		Particulars	Length	Width	Height	Volume in Cubic feet	
A) Ground Floor						B) Ground Floor					
Chamber – III						Chamber - IV					
C) Ground Floor						D) Ground Floor					
E) Less :											
a) Machine Space :											
b) Office Space :											
Total Net Volume (A+B+C+D)-E											
F. Total Volume											
Chamber - I											
Chamber - II											
Chamber - III											
Chamber - IV											
Total Cost of the Project : Rs. In Lakhs.											

Banker

HO

TSG Member

ADH(Concerned)

Promoter

RIPENING CHAMBER

Format –V (D) -RC

- 1) Name of the firm :
Proprietor / Partnership :
Name & Address :

Phone Nos. :
- 2) Land (own/lease) purchased / inherited: }
If purchased for this purpose, sale deed: } If only the land cost
included in the

Title deed : project cost

Area (sq.mt) :

Cost of land :
- 3) Shed (own/lease) :
Dimensions of the structure : } If any the shed cost is
included

If shed constructed: Plan, Valuation by Engineer : in the project cost.

Leased period, Lease deed (registered or not) :
- 4) Refrigeration unit :
Company :

Code :

Capacity :
- 5) Commodity used :
No of chambers :

Internal dimension of the chambers (l,b,h,in ft.) :

Thickness of Puf panel :

No. of Puf panels :

Size of each panel :

Density of Puf :

6) Floor insulation details (dimensions):

7) Compressor : _____ HP

8) Condenser motor : _____ HP, _____ RPM,
_____ Nos

9) Evaporator fan motor : _____ W, _____ RPM,
_____ Nos

Power supply : _____ V, _____ PH, _____
HZ

Total power consumption : _____ Kw.

Power consumption / batch

(4 or 5 days) : _____ Kwh

Power costs / kwh. :

No of batches / year :

Wt of bananas per batch :

Cost of procurement of banana per ton :

Sale price of banana per ton :

10) Humidifier cost & Make (Indian or Foreign) & nos.:

11) Ethylene generator : cost , Nos:

12) Bills (certified)

Refrigeration unit :

Puf Panels :

Control devices (temp, RH etc.) :

Humidifier :

Ethylene generator :

13) No. of crates / chamber :

Dimensions of the crates (ft) :

Weight of bananas per crate :

14) Any other (pl. specify) :

a) Copies of bills / vouchers / invoices / receipts – counter signed by banker.

b) Bank sanction letter with appraisal report.

c) Loan disbursement details./ Statement of account ,(Acct.No)

Promoter

Banker

HO

ADH

DDH

TSG (Member)

Sr. Officer (Concerned)

C. Reefer Vans

In order to establish cold chain there is need to promote reefer vans to prevent post harvest losses. The application (Format – I) with detailed project report along with all required documents as per the check list (Annexure-II) has to be forwarded to State cell. DDH should fill the application form in hortnet. In case of refer vans and containers following documents needs to be attached to the application form to be send along with the joint inspection report as detailed below.

- (a) Copy of proforma invoice of chassis, body and refrigeration units of the vehicles duly confirmed by the lending bank (to be attached to the project proposal).
- (b) Copy of the payment receipts of chassis, body and refrigeration unit etc. of the vehicles duly confirmed by the lending bank (to be send along with joint inspection report).
- (c) Copy of the delivery challans of the body and chassis of the vehicles (to be send along with joint inspection report).

The DDH has to recommend for the joint inspection of the reefer van after completion of the following:

- i) Fabrication of the van is to be completed
- ii) The van should be painted with logo of MIDH and assisted by department of horticulture and MIDH.

The DDH shall conduct joint inspection with the members constituted by this office and the joint inspection reports have to be submitted in format (RV-XVIII & XIX). DDH should upload the bills/invoices and photos in hortnet for release of subsidy. Based on the recommendations of the

Committee, the final installment of the subsidy shall be released to the concerned bank of the promoter through HORTNET.

FINAL JOINT INSPECTION REPORT OF REEFER VAN

Format - I - RV

Sri. _____, S/o. _____, R/o. _____
_____ has purchased refrigerated van (reefer van) for transport of horticulture produce as per technical specifications of MIDH with refrigeration unit of Make _____ with model no. _____ with capacity _____ with vehicle registration no _____.

Sri. _____ is eligible for Rs. _____/- towards purchase of reefer van. It is certified that the van was displayed with logo of MIDH and also written as "THE FINANCIAL ASSISTANCE GIVEN BY DEPARTMENT OF HORTICULTURE & MIDH" on the van. The vehicle purchase bills were verified.

It is recommended to release subsidy of Rs. _____/- to Sri. _____.

Promoter HO Banker TSG ADH(Concerned)

DDH Sr. Officer

Format – II (RV)**COMPONENT WISE RELEASES MADE BY THE BANKER (REEFER VAN)**

Name of the Firm :

District :

Place :

Account No :

(Rs. In Lakhs)

Sl. No.	Particulars	Project Cost		Actual investment		Remarks
		As per project report	As appraised by Banker	Loan amount released by Banker	Promoters Margin money	
1	2	3	4	5	6	7
1.	Cost on vehicle					
2.	Cost of the refrigeration unit & container					
3.	Cost of fabrication					
4.	Others					
	Total:					

Bank Manager /**Representative (Field Officer)
With Seal**

Primary Processing Units

Processing of horticultural produce and value addition is an important activity. While primary / minimal processing units are promoted under MIDH, large scale processing units are promoted by Ministry of Food Processing Industries (MFPI), out of their ongoing Schemes.

Application form (format – I) along with all required documents as per the check list (Annexure-III) has to be forwarded to State cell for taking approval from SLEC. DDH should see the registration of the farmer should be done in Hortnet. After receiving of administrative sanction, DDH has to submit preliminary inspection report in Format – IX. After the unit is completed DDH has to recommend for joint inspection of the unit.

The DDH shall conduct joint inspection with the members constituted by this office and the joint inspection reports have to be submitted in format (PP-XX, PP-XXI, PP-XXII & PP-XXIII). DDH should upload the bills/ invoice and photos in Hortnet for release of subsidy. Based on the recommendations of the Committee, the final installment of the subsidy shall be released to the concerned bank of the promoter through Hortnet.

JOINT INSPECTION REPORT FOR PRIMARY PROCESSING UNITS
FORMAT -I (PP)

Details of civil works taken up and expenditure incurred by
M/s. _____.

Sl.No.	Civil Work	Expenditure incurred	Remarks
1			
2			
3			
4			
	Total :		

Certificate:

- 1) Certified the promoter has done the above mentioned civil works and actually incurred an expenditure of
Rs. _____/-.
- 2) Certified that _____ is eligible for the
subsidy of Rs. _____/- towards civil works.

Promoter

Banker

HO

ADH

DDH

Senior Officer

TSG Member

JOINT INSPECTION REPORT FOR PRIMARY PROCESSING UNITS

FORMAT -II (PP)

Details of the plant and machinery purchased by
M/s. _____

Sl.No.	Item	Expenditure incurred	Remarks
1			
2			
3			
4			
5			
6			
7			
	Total :		

Certificate:

- 1) Certified that the promoter has purchased the above mentioned plant & machinery in addition to the existing equipment.
- 2) Certified that the purchase bills have been verified and M/s.
_____ has actually incurred an expenditure of Rs.
_____/-.- 3) Certified that he is eligible to avail subsidy of Rs.
_____/ - towards plant & machinery
_____.

Promoter

Banker

HO

ADH

DDH

Senior Officer

TSG Member

**COMPONENT WISE RELEASES MADE BY THE BANKER FOR PRIMARY
PROCESSING UNITS**

FORMAT- III - PP

Name of the Firm :

District :

Place :

Account No :

(Rs. In Lakhs)

Sl. No.	Particulars	Project Cost		Actual investment		Remarks
		As per project report	As appraised by Banker	Loan amount released by Banker	Promoters Margin money	
1	2	3	4	5	6	7
1.	Plant & Machinery					
a						
b						
c						
d						
e						
	Total:					

Bank Manager /
Representative (Field Officer)
With Seal

**FORMAT TO CONDUCT FINAL AND JOINT INSPECTION FOR PRIMARY
PROCESSING UNITS BY THE COMMITTEE UNDER POST HARVEST
MANAGEMENT COMPONENT OF MIDH, TELANGANA.**

Name of the Firm:

District:

Place:

Sl. No.	Particulars	Project Cost		Actual investment as per the joint inspection team		Remarks
		As per project report	As appraised by Banker			
1	2	3	4	5	6	7
1	Means of Finance					
1.	Capital					
2.	Term Loan from Bank					
3.	Subsidy / Margin Money/ Un-Secured Loans					
	Total:					
II.	Assessment			Component wise Loan amount released by Banker	Component wise Promoters Margin money	
1.	Cost on Land					
2.	Cost on Building					
3.	Cost on Plant & Machinery					
4.	Plastic Crates					
5.	Others please specify					
	Total:					
1	Loan amount released by Banker					
2	Promoters Margin money					
	Total :					

Note: A certificate from CA may be obtained

Certificates:

1) This is to certify that Sri./ Smt. _____ has established the Primary Processing Unit as per project report.

2) This is to certify that Sri./ Smt. _____ is eligible to avail subsidy of Rs. _____/-

3) The subsidy amount of Rs. _____/- for civil works and Rs. _____/- for purchase of plant & machinery may be released to M/s. _____.

Promoter**Banker****TSG****Member****HO****ADH****DDH****Sr. Officer**

9. HORTICULTURE MECHANISATION

Objective:

- Increasing the reach of farm mechanization to small and marginal farmers and to the regions where availability of farm power is low.
- Creating hubs for hi-tech & high value farm equipments.
- Provide financial assistance to farmers for procurement of farm machinery and implements.

S. No	Particulars	Name of the Equipment	Total Cost Rs in Lakh	Pattern of assistance	Subsidy
1	Tractors	up to 20 PTO HP	3.00 lakh per unit	25% of the cost subject to a maximum of Rs.0.75 lakh/unit for general category farmers and in the case if SC, ST Small & Marginal farmers, Women farmers 35% of the cost subject of a maximum of Rs.1.00 lakh/unit.	Gen – Rs.75,000/- per Unit & SC/ST/W/SF/MF- Rs. 1.00 Lakh/ Unit
2	Tractor / Power tiller (below 20 BHP) driven equipments a) Land Development, Tillage and seed bed preparation equipments	Tractor drawn Bund Former, Chisel plough, Bed Raiser, Rotavators, Tractor drawn harrows,	0.30 lakh/unit	40 % of the Cost, Subject to a maximum of Rs. 0.12 lakh/unit for general category farmers and 50% of the Cost in case of SC, ST, Small and marginal farmers, women farmers, subject to max. of Rs.0.15 lakh per unit (whichever is less in both cases)	Gen – Rs.12,000/- per Unit & SC/ST/W/SF/MF- Rs. 15,000/- Lakh/ Unit
B	Sowing, planting, reaping and digging equipments	Seed Cum Fertilizer Drills, Post Hole Diggers, Power saws, Brush cutters & Tractor drawn Augers	0.30 lakh/unit	40 % of the Cost, Subject to a maximum of Rs. 0.12 lakh/unit for general category farmers and 50% of the Cost in case of SC, ST, Small and marginal farmers, women farmers, subject to max. of Rs.0.15 lakh per unit (whichever is less in both cases)	Gen – Rs.12,000/- per Unit & SC/ST/W/SF/MF- Rs. 15,000/- Lakh/ Unit
C	Plastic mulch laying machine / PTO Generators	Mulcher, PTO Operated generators	0.70 lakh/unit	40% of the cost, subject to a maximum of Rs. 0.28 lakh/unit for general category farmers and 50% of the cost in case of SC,	Gen – Rs.28,000/- per Unit &

				ST, Small and marginal farmers, women farmers, subject to a max. of Rs.0.35 lakh/unit (whichever is less in both cases)	SC/ST/W/SF/MF- Rs. 35,000/- Lakh/ Unit
5	PP equipments	Tractor mounted / operated sprayer (below 20 HP)	Rs. 0.20 lakh/unit	40% of the Cost, subject to a maximum of Rs.0.08 lakh/unit for general category farmers, and 50% of the cost in the case if SC, ST, Small & Marginal farmers, women farmers, subject of a maximum of Rs. 0.10 lakh/unit (whichever is less in both cases)	Gen – Rs.8,000/- per Unit & SC/ST/W/SF/MF- Rs. 10,000/- Lakh/ Unit
6	PP equipments	Tractor mounted / Operated Sprayer (above 35 BHP)	Rs. 1.26 lakh/unit	40% of cost, subject to a maximum of Rs. 0.50 lakh/unit for general category farmers, and in the case if SC, ST, Small & Marginal famers, women farmers 50% of cost, subject to a maximum of Rs. 0.63 lakh per unit. (whichever is less in both cases)	Gen – Rs.50,000/- per Unit & SC/ST/W/SF/MF- Rs. 63,000/- Lakh/ Unit

Hence, all the ADHs/ DDHs/ HOs are directed to give wide publicity of Farm Mechanization & PP equipment under MIDH programme and achieve their targets in full before end of October 2016.

1. The farmers who are having orchards are only eligible for the component of Horticulture Mechanization. The identified beneficiaries should be uploaded in the HORTNET.
2. The empanelled firms done by M/s Agros are only eligible to supply farm machinery. The empanelled companies should be registered in HORTNET with their bank account details.
3. The empanelled companies should get their equipments tested either from FMTTI (Farm Machinery Training and Testing Institute) Geraldine A.P. or Designated Institute from DAC are only eligible for subsidy.
4. All the companies / Authorized Dealers should furnish bank account numbers along with the IFSC codes to concerned ADHs for online transfer of amounts of subsidy amount through RTGS only.
5. The empanelled companies list along with the prices should be made available to the farmers. The choice of the farmer in selection of the firms should be given priority.

6. After the selection of the firm and its make, the concerned HO/ ADH should explain the details of subsidy and non subsidy particulars to the identified beneficiaries, who are enrolled in the scheme.
7. The application should be collected by the concerned HO and the ADH /DDH will scrutinize it.
8. The identified farmers should pay the non subsidy amount in shape of DD drawn in favour of the concerned firm / authorized dealer empanelled through Agros and submit to the concerned ADH.
9. The concerned ADH will issue a purchase order along with the DD of non-subsidy amount to the approved firm / authorized dealer empanelled through Agros with a copy marked to concerned farmer.
10. The firm should deliver the desired make of the machinery to the farmer.
11. The original invoices / bills and purchase order of the concerned firms / authorized dealer empanelled through Agros will be retained at concerned ADH office only.
12. The DDHs will send ink signed final proceeding along with annexure approved by District Collector to the Head Office for effecting the payment to the concerned firms / authorized dealer empanelled through Agros.
13. During disbursement of the machinery to the farmer concerned HO, ADH and concerned firm / authorized dealer empanelled through Agros representative should take a digital photo along with the machinery and the same is to be uploaded in HORTNET.
14. The subsidy amounts will be released to the firms / authorized dealer empanelled through Agros through online transfer by the concerned District Officer.
15. The District officers should strictly follow the SC/ST allocations while implementing scheme.
16. The District Officers should see that the entire physical & financial targets are to be achieved before end of October 2016, duly following the norms & guidelines without any deviation.



Mulch Laying Machine



Mini Tractors



Sprayers

The District officers are requested to send the following information in the annexure prescribed below which is mandatory for release of subsidy along with proposal from concerned District officer & DMC approval.

RELEASE - ANNEXURE																				
S. No	Name of equip ment	U ni t	Assist ance (in Lakh)	Target Allotted		No. of beneficiaries entered in ED login of HORTNET for which release is now requested					No of Units achieved and entered in ED login of HORTNET for which release is now requested (Ha/No.)					Amount To be Released as per entry in ED login of HORTNET and DMC approval (Rs.)				
				PHY (Ha)	FIN (Rs. in Lak hs)															
						G e n	SF/ MF	S C P	T S P	To tal	G e n	SF/ MF	S C P	T S P	To tal	G e n	SF/ MF	S C P	T S P	To tal

CERTIFICATE:

This is to certify that:

1. The farmers covered in the above annexure have applied for subsidy under Horticulture Mechanization scheme.
2. All the details mentioned in the above table have been verified and found correct.
3. The above farmers are eligible to avail subsidy of Rs. _____/- .
4. The total subsidy amount of Rs. _____/- may be released.
5. The above farmers have not claimed subsidy for the same equipment under Department of Agriculture.

H.O

ADH

DDH

Checklist for Inspection

S.No.	Criteria	Remarks
	<u>HORTICULTURE MECHANIZATION</u>	
1	Farm implement was of the firm empanelled by TS AGROS	
2	Unique Identification Code embossed on the implement	
3	Original Bills / invoices and purchase order of the concerned firm/ authorized dealer	
4	DMC approval was obtained	
5	The beneficiary details have been uploaded in the HORTNET	

10. TECHNOLOGY DISSEMINATION THROUGH FRONTLINE DEMONSTRATIONS IN FARMERS FIELD

OBJECTIVES:

- Telangana State is a newly formed State. It requires both motivations to the farmers and demonstrations of latest technologies to maximize the net income of the farmers from limited available of resources.
- To demonstrate improved Crop Production Technologies of Turmeric, Mango, Thai Guava & Custard apple in the farmers' fields;
- To popularize the newly notified and improved varieties/technologies for varietal diversification and efficient management of resources.
- In view of policy of industries for establishing of food park i.e., spice park etc.,

Amount in Rs.						
S.No	CROP	Unit	No of Units	Total Cost	1st year Subsidy	Total
1	MANGO (MDK, MBNR, KHMM, KRMR, ADB)	Ha.	40	500000	238556	9542250
2	Custard apple (ADB, MBNR, MDK, NLG)	Ha.	40	425000	286200	11448000
3	Thai Guava (RR, MDK, MBNR)	1 Ac	50	250000	165330	8266500
4	Turmeric (NZB, ADB, KRMR, WRNGL)	1 Ac	215	50750	38063	8183545
	Sub -Total			1225750	728149	37440295
5	Departmental Farms	Ha	2	2500000	5000000	5000000
	GRAND TOTAL					42440295

<u>PATTERN OF ASSISTANCE FOR MANGO (3 m X 2 m) FOR 1 HA. (with 75% Subsidy on input cost)</u>														
Variety : Himayat/ Dasherri														
No. of plants 1675 / ha.						Amount in Rs.								
Sl. No.	Name of Sub-component	Unit	Qty	Rate	FLD cost for 3 years	1st year (2015-16)			2nd Year (2016-17)			3rd year (2017-18)		
						Total Cost	Subsidy	Farmer Share	Total Cost	Subsidy	Farmer Share	Total Cost	Subsidy	Farmer Share
1	Plant Material (@Rs40/- per plant)	Nos	1675	40	73700	67000	50250	16750	6700	5025	1675	0	0	0
	Digging pits	Nos	1675	30	50250	50250	37688	12563	0	0	0	0	0	0
	Sub - Total				123950	117250	87938	29313	6700	5025	1675	0	0	0
2	Inputs													
	Soil Mixture / Fertilizer pesticides/ fungicides/ micro nutrients				290000	145000	108750	36250	72500	54375	18125	72500	54375	18125
	Mulching				32000	32000	24000	8000	0	0	0	0	0	0
	Farm Mechanization													
	Taiwan sprayer- 1st year	Nos	1		15000	15000	11250	3750	0	0	0	0	0	0
	secauteur - 1st year	Nos	2	500	1000	1000	750	250	0	0	0	0	0	0
	pruner saws - 3rd year	Nos	2	700	1400	0	0	0	0	0	0	1400	1050	350
	Long reach pruner - 3rd year	Nos	2	4500	9000	0	0	0	0	0	0	9000	6750	2250
	Plastic crates - 3rd year	Nos	40	240	9600	0	0	0	0	0	0	9600	7200	2400
	Cut & hold harvester - 3rd year	Nos	2	1200	2400	0	0	0	0	0	0	2400	1800	600
	Labour charges etc., training, pruning, stakeing, display board & maintenance of digital photo album	LS			15650	7825	5869	1956	3913	2934	978	3913	2934	978
	Sub - Total				376050	200825	150619	50206	76413	57309	19103	98813	74109	24703
	Total (Plant Material + Inputs)				500000	318075	238556	79519	83113	62334	20778	98813	74109	24703

PATTERN OF ASSISTANCE FOR THAI GUAVA IN MEADOW ORCHARD (2.5 m X 5 m) FOR 1 Acre (with 75% Subsidy on input cost)														
Variety : VNR – Bihi														
No. of plants 320 / ac						Amount in Rs.								
Sl. No	Name of Sub-component	Unit	Qty	Rate	FLD for 3 years	1st year (2015-16)			2nd Year (2016-17)			3rd year (2017-18)		
						Total Cost	Subsidy	Farmer Share	Total Cost	Subsidy	Farmer Share	Total Cost	Subsidy	Farmer Share
1	Plant Material (@Rs.155/- per plant)	Nos	320	155	54560	49600	37200	12400	4960	3720	1240	0	0	0
	Digging pits	Nos	320	30	9600	9600	7200	2400	0	0	0	0	0	0
	Sub - Total				64160	59200	44400	14800	4960	3720	1240	0	0	0
2	Inputs													
	Soil Mixture / Fertilizer pesticides/ fungicides/ micro nutrients	LS			116000	116000	87000	29000	0	0	0	0	0	0
	Mulching				12840	12840	9630	3210	0	0	0	0	0	0
	Farm Mechanization													
	Taiwan sprayer- 1st year	Nos	1	15000	15000	15000	11250	3750	0	0	0	0	0	0
	secauteur - 1st year	Nos	2	500	1000	1000	750	250	0	0	0	0	0	0
	pruner saws - 1st year	Nos	2	700	1400	1400	1050	350	0	0	0	0	0	0
	Plastic crates - 3rd year	Nos	40	240	9600	0	0	0	0	0	0	9600	7200	2400
	Labour charges etc., training, pruning, stakeing, display board & maintenance of digital photo album	LS			30000	15000	11250	3750	7500	5625	1875	7500	5625	1875
	Sub - Total				185840	161240	120930	40310	7500	5625	1875	17100	12825	4275
	Total (Plant Material + Inputs)				250000	220440	165330	55110	12460	9345	3115	17100	12825	4275

PATTERN OF ASSISTANCE FOR CUSTARD APPLE (2.5 m X 5 m) FOR 1 HA. (with 75% Subsidy on input cost)

Variety : NMK-1

No. of plants 800 / ha.

Amount in Rs.

Sl. No	Name of Sub-component	Unit	Qty	Rate	FLD for 3 years	1st year (2015-16)			2nd Year (2016-17)			3rd year (2017-18)		
						Total Cost	Subsidy	Farmer Share	Total Cost	Subsidy	Farmer Share	Total Cost	Subsidy	Farmer Share
1	Plant Material (@Rs. 75/- per plant)	Nos	800	75	66000	60000	45000	15000	6000	4500	1500	0	0	0
	Digging pits	Nos	800	30	24000	24000	18000	6000	0	0	0	0	0	0
	Sub - Total				90000	84000	63000	21000	6000	4500	1500	0	0	0
2	Inputs													
	Soil Mixture / Fertilizer pesticides/ fungicides/ micro nutrients	LS			224600	224600	168450	56150	0	0	0	0	0	0
	Mulching				32000	32000	24000	8000	0	0	0	0	0	0
	Farm Mechanization													
	Taiwan sprayer- 1st year	No	1	15000	15000	15000	11250	3750	0	0	0	0	0	0
	secauteur - 2nd year	No	2	500	1000	1000	750	250	0	0	0	0	0	0
	pruner saws - 2nd year	No	2	700	1400	0	0	0	1400	1050	350	0	0	0
	Long reach pruner - 3rd year	No	2	4500	9000	0	0	0	9000	6750	2250	0	0	0
	Plastic crates - 3rd year	No	40	240	9600	0	0	0	0	0	0	9600	7200	2400
	Cut & hold harvester - 3rd year	No	2	1200	2400	0	0	0	0	0	0	2400	1800	600
	Labour charges etc., training, pruning, stakeing, display board & maintenance of digital photo album	LS			40000	25000	18750	6250	7500	5625	1875	7500	5625	1875
	Sub - Total				335000	297600	223200	74400	17900	13425	4475	19500	14625	4875
	Total (Plant Material + Inputs)				425000	381600	286200	95400	23900	17925	5975	19500	14625	4875

TURMERIC DEMONSTRATION PLOTS IN FARMERS FIELDS

Each Unit : 1 acre

Spacing: 30 cm X 45 cm

Seed Rate: 2 Qts per Acre

Varieties: PTS-10

Amount in Rs.

S.No	Item of work	Description	Unit	Qnty	Rate	Amount	Subsidy	Farmer Share
	Critical inputs for Main field							
1	Seed rate	Chiping Method	Qts	2	Rs. 40/- per Kg	8000	38063	2000
2	Preparation of raised beds					1250		313
3	Manures, Fertilisers & Pesticides	FYM, Vermi compost 1000 Kg, Zinc Sulphate 20 Kgs, SSP 6 bags, Neem cake 8 bags, Fertilisers (14:35:14) 3 bags, Urea 3 bags, Micronutrients 2 kgs, 0:0:50 12 kgs, 215 bags Zinc salfet each 20kg / Acre	LS			40000		10000
		Curzate (1kg) for rhizome rot, Coragen (100 ml), Dhanuvit, adjuvant (200 ml), TDV, PSB, POM etc., (each 2 kgs),						
4	Miscellaneous Expenditure					1500		375
		Total				50750	38063	12688

IMPLEMENTATION

- The crops like turmeric which are having more curicumin and high yielder variety (Salem, PTS-10), Mango (Himayath, Dasherri & Kesar variety), Custard apple (NMK -1, Balnagar variety), Thai Guava (VNR-Bihi) are selected for conducting FLD in farmers field.
- The DMC approved selected beneficiary list has to be approved in the SLEC meeting at state level. Hence the District officers are requested not to change the Beneficiary list.
- The Assistance for field level demonstration is 75% subsidy of the total cost for the crops mentioned above. (as pilot project)

S.No.	Name of the Crop	Total Cost in Rs.	Subsidy 75% (1st year)
1	Turmeric	50,750	38,063
2	Mango	5,00,000	2,38,556
3	Custard Apple	4,25,000	2,86,200
4	Thai Guava	2,50,000	1,65,330

- The requirement of Plant material for the crops like Thai Guava & Custard apple has to be given to SHM section well in advance i.e., before 3 months of planting with 25% non- subsidy portion of farmer contribution.
- The plant material for Mango variety priority should be given to procure plant material from tied-up Horticultural farms / Research stations of PJTS Agril. University / SKLTS Horti. University only.
- However, farmers shall be permitted to purchase plant material from private nurseries if variety is not available in tied-up Horticultural farms / Research stations.
- In cases when plant material is supplied from Department Horticultural farms, the assistance amount towards plant material shall be directly released to the Horticultural farms by the DDHs duly obtaining necessary bills/invoices from the farm in-charge.
- In cases when plant material is purchased by the farmers from Research stations or from Pvt. Nurseries, the DDH/ADH shall release the plant material assistance to the farmers as per the recommendation and certification of HO concerned on bills/invoices submitted by the farmers.
- In case of Turmeric crop raised bed method has to be followed with micro irrigation system along with seedlings.
- Orientation training may be organized for one day and exposure visit may be organized for crop specific cultivation for all the participating persons about all aspects of technologies and methodologies including aims and objectives of the demonstrations so that there is uniform clarity of purpose for better working relating and linkages along with literature.
- In case of turmeric seedlings will be supplied to the selected farmers by the Department after conducting training & exposure visits.

- The site of demonstrations should be at a place easily accessible and at central point to attract large number of audience/farmers for more impact, and easy monitoring and feedback.
- To create better and visible impact of a technology the demonstrations may be conducted in cluster approach.
- The demonstrating farmers should be progressive one with lead and who is easily approachable by other farmers.
- Special attention towards soil problems like acidity, alkalinity, micro-nutrients deficiency, soil borne pests and diseases should be tackled before taking up the Frontline demonstrations.
- Display board of size 3' X 4' iron angular frame to be fixed at FLD plot.
- Plot with assured irrigation system should be selected after soil and water analysis.
- Crop specific scientist may be called to the field whenever necessary and printed literature to be given to the farmers.
- Advance planning may be done for the demonstration so that all the critical inputs are arranged in time.
- All the important farm operations may be carried out by the demonstrating farmers under the close supervision of DDH & ADH.
- All important operations carried in the field should be documented in the registers by concerned HEOs & HO and should be uploaded in Hortnet with Digital photographs.
- Monitoring is required on continuous and regular basis through visits to FLD plots, recording observations, getting the feedback from the farmers.
- Monitoring teams consisting of DDH, ADH, HO & HEO concerned District will make visits to such demonstration plots for getting direct feedback and offering suggestions and guidance.
- Monthly progress report should be submitted to Head office by DDH / ADH.
- Field registers to be maintained.
- Calendar of activities should be maintained and concerned officers who ever visit the field should sign in the register.
- Turmeric crop should not be harvested till it attains maturity. i.e., 9 months to get expected results.
- The farmers should follow recommendations scrupulously.
- The department will not owe any responsibility climatological and weather aberrations.

Funding Pattern:

- The concerned DDH will forward the proposal for establishment of Front Line Demonstration (FLD) along with DMC approval and bills & photos for release of funds from Head office.
- Inspection team consisting of concerned District supervisory officer along with DDH, ADH, HO & HEO will inspect the FLD field and submit the inspection report to Head office for recommendation of release of subsidy to the farmer.
- After verification of the bills and based on the recommendations by inspection team the subsidy will be released to the concerned District officers who in turn will release the subsidy to beneficiary through online.
- Assistance pertaining to inputs like Vermicompost, FYM, fertilizers (organic and inorganic) and other inputs like bio fertilizer, bio-pesticides, PP chemicals, Micro nutrients etc., shall be given to the farmers in the form of cash through online transfer by District officer as per the recommendation and certification of HO concerned on bills/invoices submitted by the farmers.
- Assistance pertains to labour charges shall be given to the farmers in the form of cash through online transfer by District officer as per the recommendation and certification of HO concerned on bills/invoices submitted by the farmers.
- Mulching with 100 Microns has to be followed for all crops and the assistance for mulching sheet shall be given to the farmers in the form of cash through online transfer by District officer as per the recommendation and certification of HO concerned on bills/invoices submitted by the farmers.
- The Implements like Taiwan sprayer, secateurs, cut hold harvester, long reach pruner, pruner saws & plastic crates will be supplied to the farmers through empanelled firms by M/s. TS AGROS and the subsidy pertaining to implements will be released to the concerned firms through online transfer by the District Officers after collecting Non- Subsidy.
- DDH & ADH are wholly responsible till the successful harvest of the crop.

The following procedure has to be followed while distribution of inputs to the identified beneficiaries.

- The identified farmers should be given a coupon indicating the quantity of the inputs to be lifted from the concerned PACs by concerned HO counter signed by ADH.
- The farmer will pay the Non- Subsidy amount to the incharge of PAC of the concerned Districts after certified by the concerned HO.
- The HACA will issue an invoice for the inputs lifted to the District officers concerned for release of subsidy from the Department.
- The District concerned officers will forward the invoice along with the proceeding indicating details of subsidy & non-subsidy amounts and

certified copy of the inputs lifted from the concerned PACS to head office for release of subsidy to HACA.

- Regarding seed material the DDHs/ADHs shall collect, remit non-subsidy an amount of rs. 2000/- per acre in favour of “Secretary, SHM”.
- The DDHs/ADHs shall collect, remit the 25% of the Non-Subsidy amount in regarding supplying of inputs favour of MD, HACA.
- Remaining 75% of the subsidy amount would be released by the Head office.

The District officers are requested to send the following information in the annexure prescribed below which is mandatory for release of subsidy along with proposal from concerned District officer & DMC approval.

RELEASE – ANNEXURE																	
S. No	COMPONENTS / CROPS	Unit size	Assistance (in Lakh) per Unit	Target Allotted		No. of beneficiaries entered in ED login of HORTNET for which release is now requested				Area achieved and entered in ED login of HORTNET for which release is now requested (Ha.)				Amount To be Released as per entry in ED login of HORTNET and DMC approval (Rs.)			
				PHY (Ha)	FIN (Rs.in Lakhs)												
						Gen	SCP	TSP	Total	Gen	SCP	TSP	Total	Gen	SCP	TSP	Total
1																	
2																	

The District officers shall maintain the following information in the registers.

ANNEXURE

S. No	Name of the Farmer along with father's Name Address & Ph.No	Village, Mandal & District	Area in Ha.	Crop & Variety	No of Plants	Source & Value of Plant material	Quantity of inputs Utilized	Value of the inputs	Daily operations done in the field	Signature of the Farmer	Signature of the concerned HEO & HO
1											

12. HUMAN RESOURCE DEVELOPMENT

Objectives:

- Providing appropriate training to the farmers for adoption of high yielding varieties of crops and farming systems and also to sensitize on post harvest management.
- To familiarize the farmers about the production practices being followed by progressive farmers.

Non-Negotiables While Conducting Training Programme To The Farmers

a) Trainings to farmers:

1. The districts have to identify the training needs of the horticulture farmers in the district keeping in view, the horticulture profile, productivity pattern, incidence of pest, post harvest practices and other such relevant issues.
2. Based on the training needs, the ADH in consultation with field functionaries should prepare training calendar keeping the specific needs of the District in mind.
3. The calendar should contain mandal-wise crop-wise training schedule. Training programmes conducted without preparing the training calendar will not be eligible for drawing assistance from SHM funds.
2. The farmers / beneficiaries identified under SHM especially, for Area expansion, Protected Cultivation, Front line Demonstrations should invariably be covered under HRD program. .
3. The ADH shall identify resource persons including retired personnel of Horticulture dept., KVK's, progressive farmers and empanel them and their services can be used by paying honorarium.
4. Providing written literature in Telugu on the training subject to the trainees is a must. **If training is conducted without giving the written literature, it will not be considered as training for getting assistance.**
5. Feedback of the farmers on the usefulness of the training shall be obtained in specially designed feedback forms or in a register along with the signatures of the participants.
6. Documentation like photograph shall be taken for each training program. Press publicity should be given on these training programs.
7. The DDH should visit maximum number of training programmes as far as possible as this will give an opportunity to interact with farmers and get feedback on horticultural issues.
8. Attendance register of the farmers should be maintained by each officer.

b. Exposure visit to the farmers:

1. In order to familiarize the farmer about the production practices being followed in other states exposure visits should be organized.
2. The ADH should identify the places/ states where the suggested areas are being successfully practiced and coordinate with the institutions / agencies and fix tentative dates with the prior approval of DDH.

Training to farmers:**i) Within the State:**

1. Training programme should be of one day duration and should focus on crop management during flowering, fruiting and pest & disease management.
2. It should be ensured that, the trainings conducted in a month should invariably cover **18 % SC farmers, 10 % ST farmers** and **33% women** beneficiaries / farmers
3. The Training programme should be held within the state. If feasible / possible a field visit of the farmers should be organised to the neighbouring districts to educate the farmers on latest technologies adopted. The expenditure per training should not exceed Rs.25000/- per batch of 25 farmers (component wise indicative cost given below)
4. Programme to be documented in coordination with divisional / mandal PRO and photographs of local news paper/ video clippings to be sent to SHM at the end of the month along with progress report including banner.
5. Suitable resource persons should be identified for imparting training based on the Subject. The resource person must be either Scientists from DAATT Centre or from nearby Agriculture /Horticulture research stations of Prof. Jaya shankar Agril. University or SKLTS Horticulture University.

Component Wise Assistance for Training Programmes within the State - 2016-17

S.No	Component	Assistance @ Rs.25,000/- per training a batch of 25 farmers
1	Study material (Reading and writing material , CDs)	2000/-
2	Honorarium to faculty members / resource persons.	3000/-
3	Expenditure on food	5000/-
4	Travelling expenses	6000/-
5	Miscellaneous, contingent exp.	9000/-
	Total	25,000/-

d) Exposure Visit of Farmers:

i) Outside State:

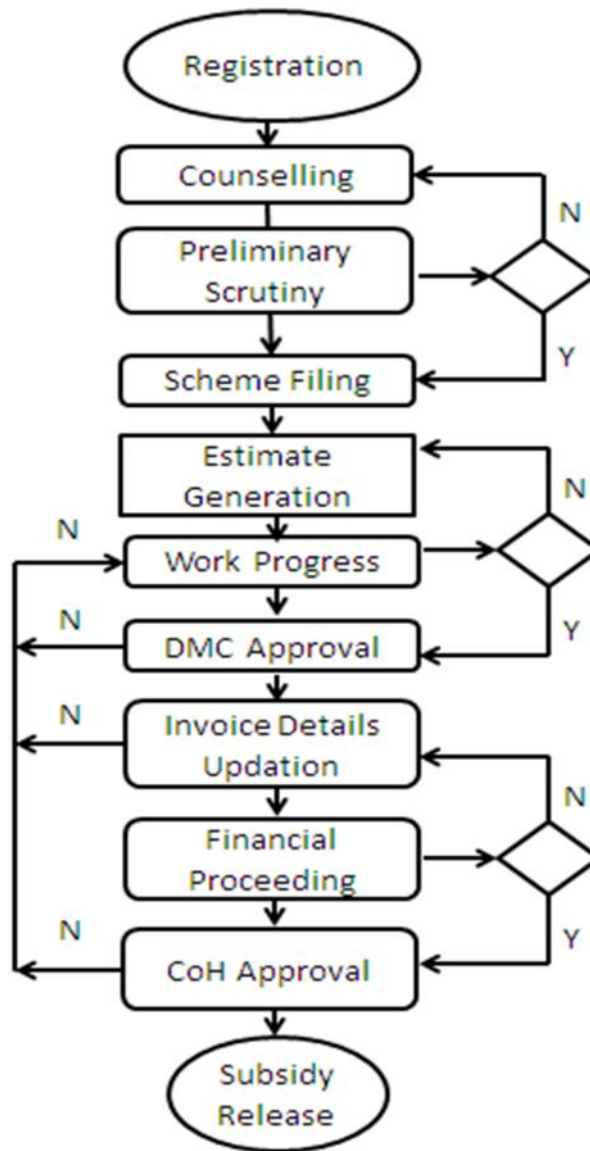
1. Exposure Visits to farmers outside the State can be organized by the district officers to the states where precision farming, Hi-tech floriculture, Organic farming, Processing Industries and Hi-tech farming are highly successful and can be emulated by the farmers of our state. And also to places where latest Post harvest technologies are adopted and market facilities are created.
 - ✓ The Turmeric growing districts may plan visits to Erode, Salem in Tamilnadu where Precision farming has been taken up in Turmeric
2. The visits should be completed within the financial year 2016-17. It should be ensured that, the exposure visits should invariably cover **18 % SC farmers, 10 % ST farmers** and **33% women** beneficiaries / farmers
3. The eligible expenditure per farmer per day is Rs.1000/- (Rupees Thousand only) and limited to 6 days stay outside state (including Travel). The travel expenses will be based on actual bus/train fare.
4. This is a project based component. Before organising the visit, specific proposals should be sent by district officers indicating the tentative tour programme, place of exposure visit, list of identified farmers and purpose of exposure visit and prior permission has to be obtained. The same will be submitted for approval of SLEC.
5. Programme to be documented. The team should record interviews with the successful farmers. A compendium should be submitted to the office along with expenditure statement, photographs and CDs. It is mandatory for the team to interact with the officials of Horticulture / Agriculture Department and obtain their observations.

REPORT ON EXPOSURE VISITS (Minimum 10 Pgs per Visit)

1. Name of the District:
 2. Place of Visit
 3. No. of Farmers
 4. Village & Mandal
 5. Objective of the Visit
 6. Duration (Dates) :
 7. List of Places / Organizations visited:
 8. Lessons learned:
 9. Comments / observations of the Farmers:
- The Report should be sent in A 4 size papers, in Times New Roman Font (14 for Sub headings and 12 for matter).

- Minimum 6 to 8 Photographs should be incorporated at appropriate places in the note along with captions.
- List of farmers should be enclosed. A statement showing component wise expenditure should be enclosed.
- Follow up action after the field visits by the Department to take up the activities.

HORTNET WORK FLOW



Application Entry Form (Non Project Based Components)			
Beneficiary Details			
Applicant Type	Individual/Society/Public Sector/Private Sector		
Applicant Category	Small Farmer/Marginal Farmer/Big Farmer		
Applicant Name		Sir Name	
Father/Husband Name		Applicant Social Category(Caste)	SC/ST/BC/GENERAL
Identity Card Type		Educational Qualifications	
Identity Card No		Gender	Male/Female
Email Id		Age(In Years)	
PAN Card No			
Address Details			
State		Pin code	
District		Std Code	
Mandal		Phone (Resident)	
Village		Mobile	
House No		Fax No	
Street/Location			
Land Details			
Soil Type	Light/Sandy/Hard	Land Type	Owned/Assigned/Leased
Total Land Area (Ha.)		Land Extent Applied (Ha.)	
Land Survey No		Source of Irrigation	Bore well/Well/Cannel
Drip Irrigation Available	Yes / No	Applied to A.P.M.I.P.- of Drip Irrigation	Yes / No
Having Vermi - Compose Unit	Yes / No	Already has Bore Well	Yes / No
State(LL)		Mandal(LL)	
District(LL)		Village(LL)	
(write same if land details address is same as address details)			
*LL-Land Location			

Bank Details			
Bank Name		Branch Name	
Branch ECS Code		Bank Account No	
Component Details			
No. Of Schemes Applying	One/Two/Three	Year Applied for Schemes	
First Scheme			
Component Type		Sub-Component	
Component		Crop/Item	
Second Scheme			
Component Type		Sub-Component	
Component		Crop/Item	
Third Scheme			
Component Type		Sub-Component	
Component		Crop/Item	

Application Entry Form (Project Based Components)				
Beneficiary Details				
Applicant Type	Individual/Society/Public Sector/Private Sector			
Applicant Category	Small Farmer/Marginal Farmer/Big Farmer			
Applicant Name		Sir Name		
Father/Husband Name		Applicant Social Category(Caste)	SC/ST/BC/GENERAL	
Identity Card Type		Educational Qualifications		
Identity Card No		Gender	Male/Female	
Email Id		Age(In Years)		
PAN Card No				
Address Details				
State		Pin code		
District		Std Code		
Mandal		Phone (Resident)		
Village		Mobile		
House No		Fax No		
Street/Location				
Land Details				
Soil Type	Light/Sandy/Hard	Land Type	Owned/Assigned/Leased	
Total Land Area (Ha.)		Land Extent Applied (Ha.)		
Land Survey No		Source of Irrigation	Bore well/Well/Cannel	
Drip Irrigation Available	Yes / No	Applied to A.P.M.I.P.- of Drip Irrigation	Yes / No	
Having Vermi - Compose Unit	Yes / No	Already has Bore Well	Yes / No	
State(LL)		Mandal(LL)		
District(LL)		Village(LL)		
(write same if land details address is same as address details)				
*LL-Land Location				

Bank Details			
Bank Name		Branch Name	
Branch ECS Code		Bank Account No	
Component Details			
Project Type		Year Applied for Schemes	
Process Procedure			
1. To submit the project report as per the prescribed format to the concerned Asst. Director Horticulture of concerned district with all the necessary enclosures.			
2. Verification of Land details by concerned Asst. Director Horticulture			
3. Approval District Horticulture Mission ie., District Collector			
4. Forwarding the project report to SHM office for State Level Executive Committee (SLEC), Hyderabad meeting			
5. If agreed in SLEC meeting, the project proposal will be forwarded to the National Horticulture Mission, New Delhi for approval			
6. In principle Sanction/ Approval, if approved in Executive Committee/ EMC, New Delhi			