



MIDH- 2018-19

Implementation

Guidelines

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**MISSION FOR INTEGRATED DEVELOPMENT OF HORTICULTURE
(MIDH)
IMPLEMENTATION GUIDELINES - 2018-19**

A. Norms & Pattern of Assistance and Popularization of Scheme

1. Norms would be as per the GOI norms fixed for the year 2014-15, shall be applicable in subsequent years unless modified. The guidelines are described in subsequent pages of this booklet.
2. The Director 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 Director of Horticulture and Mission Director, MIDH from time to time.
4. The District-level targets communicated by the O/o Director of Horticulture shall further be divided HO wise & Mandal wise by the DHSOs 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 Farmers or entrepreneurs 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 **fifteen years** for poly houses.
2. Assistance shall be available only for Horticultural crops as per the GOI norms and guidelines
3. Farmers could 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 DHSO in the prescribed format.

- i. **Form-1 in case of non-project based activities**

Beneficiary can register details through online in Hortnet or deposit the application to DHSO office through **HO's/ HEO's** or 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, **the same shall be placed in ensuing SLECs to get approvals as per delegation of powers communicated by GoI.**

2. **Checklist & Documents** to be enclosed for Project Based Proposals annexured 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/she** 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 DHSO of the concerned district along with **his/her** 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, DHSO will keep proper record of applications.
4. The DHSO will get the applications registered from a computer, as well maintain hard copies of the same, only after proper scrutiny that-
 - i. The farmer-applicant belongs to the concerned district/holding land in 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 2008-09 shall not be eligible for the same component again subject to the maximum limit prescribed under the guidelines.

5. DHSO shall make a seniority list for his/ her jurisdiction. After authentication by the HOs, 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. DHSO will accord the approval of case within 7 days of receipt from office.
7. Roster register will be maintained by concerned DHSO officer. He/She will issue the slip to the farmer mentioning his/her 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, Poly houses/ Shade net Houses, post-harvest units and other physical structures, proper verification shall be done by the HO, DHSO 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 DHSO as a proof of the purchase of the component/input. The DHSO 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/DHSO in the prescribed format.
 - v. The physical verification report should reach the office of DHSO 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:



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:

- In case of non-project based activities: 100% verification by the **HO & HEO** in all the cases in his jurisdiction, 20% - 50% verification by DHSO concerned in his/her jurisdictions.
- In case of farm ponds: the work executed shall be duly verified by the committee so constituted.
- 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, DHSO, HO concerned, any technical expert in the field of component **from SKLTSU** and representative from concerned bank (if credit linked) as suggested in the check lists/or as communicated by Head office from time to time.
- Stage wise digital photos to be taken before work, at the time of work and after completion of work.

2. **Release:**

- Subsidy is to be released as per norms fixed and guidelines prescribed
- Subsidy proposal to be submitted within 7 days of physical inspection report duly obtaining DMC approval.
- 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. DHSO 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. DHSO 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. DHSO shall send the physical and financial progress of his/her district monthly in prescribed format on or before 3rd of every month.
3. The **DHSO 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.
 - 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 2018-19

1. Identification of beneficiaries should be done 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 **each** schemes, issue of Administrative sanctions and release for all the SHM schemes under MIDH. DHSO is the district head who is responsible for obtaining DMC approval.
7. **Filing of applications in Hortnet is mandatory for all components towards release of funds. The DHSO should see that Aadhaar 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/ Horticulture / ICAR institutes.
10. Awareness programmes should be organized under all components, specifically, Post harvest management, Special Interventions.
11. The Projects proposed under Post Harvest Management, Special Interventions 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 as 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 DHSO /HO concerned personally before updating in **Hortnet**.
15. DHSOs should ensure the bills produced by the beneficiaries are from the registered firms/companies, before forwarding release proposal to head office.

16. **The assistance will be given taking family as a unit.**
17. It is the responsibility of DHSO 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. Stage wise Photographs have to be uploaded in HORTNET.
19. It is mandatory to submit the success stories / case studies of each year along with photographs.
20. Monthly district monitoring committee meeting to be convened under the chairmanship of District Collector with all the members.

GUIDELINES FOR SELECTION OF BENEFICIARIES FOR DIFFERENT SCHEMES BEING IMPLEMENTED UNDER MIDH 2018-19

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 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 / DHSOs 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. (In case Non- Project based proposals)
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 HOs concerned to verify all the details and approve the eligible applications without any wrong entries and forward to DHSO.
 - c) After approval by the DHSO, 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.

I. Plantation Infrastructure Development

Establishment of Seed infrastructure/Seed processing Unit:

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 ended 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.
- **All proposed Seed Infrastructure Units should have latest machinery i.e., semi-automatic machines/automatic machinery to minimize manual handling.**
- **Machinery space & storage space may be kept in view in Seed Infrastructure projects.**
- **The Capacity of the unit should be 4 MTs per hour.**

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	Crops and varieties proposed to be taken up under Seeds Infrastructure Unit
23	Whether the seeds are Open Pollinated/Hybrid/ Breeder/F1/F2
24	Sources of Seed/line & Name of Certification Agency
25	Chartered Account
26	Insurance copy of the unit

- ❖ 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 process only vegetable crops.
- ❖ The beneficiaries shall apply to DHSOs 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 should enclose the **bank consent** for release of loan amount for establishment of Seed infrastructure Unit under credit linked back-ended subsidy.
- ❖ After the inspection of the site by the concerned H.O. and DHSO, the proposals with the recommendations will be placed before the District Mission Committee (DMC) for sanction of the proposals for Establishment of Seed infrastructure Unit.
- ❖ 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 2 sets of DPR (Detailed project report) to the 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 approval by the SLEC 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 Seed processing Unit and after physical verification of the unit the District Officers along with Technical Teams.
- ❖ Stage wise photos should be enclosed along with the proposals for release of subsidy.

SYNOPSIS

1) Name of the Component : PLANTATION INFRASTRUCTURE

a) Sub-Component Applied for : Seed Infrastructure Unit

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) Joint Inspection Photos :

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

- a) Estimated cost : Rs. Lakhs /Unit
- b) Subsidy : Credit linked back ended subsidy @
50% of the capital cost i.e., Rs.100.00 Lakhs/Unit.

Signature of the Promoter

Signature of the Banker

Signature of the HO

Signature of the DHSO

**Preliminary Inspection Report, while submitting project to State MIDH
Cell for release of 1st installment.**

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 : Seed Infrastructure Unit
- 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 Seed infrastructure Unit building civil/pre engineered as on inspection date :
- (iv) Type of seeds to be Processed :

Certificates:

1. This is to certify that the promoter has established Seed Infrastructure Unit 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 towards 1ST installment to the subsidy reserve fund account bearing No: -----, IFSC Code:....., Bank:-----, Branch:-----.

Signature of the Promoter

Signature of the Banker

Signature of the HO

Signature of the DHSO

**COMPONENT WISE RELEASES MADE BY THE BANKER FOR SEED
INFRASTRUCTURE UNIT FOR RELEASE OF 1ST INSTALLMENT**

Name of the Firm :

District :

Village & Mandal :

Bank & Branch :

Subsidy Account No & IFSC Code:

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					
	Total:					

Bank Manager /
Representative
(Field Officer)
With Seal

FORMAT TO CONDUCT FINAL AND JOINT INSPECTION BY THE COMMITTEE FOR SEED INFRASTRUCTURE UNIT UNDER MIDH, TELANGANA.

Name of the Unit:

Village & Mandal:

District:

Capacity of the unit:

Name of the Vegetable seeds to be processed :

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:					

Certificates:

1. This is to certify that the promoter has established Seed Infrastructure Unit 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 towards 2nd and final installment to the subsidy reserve fund account bearing No: -----, IFSC Code:....., Bank:-----, Branch:-----.

Promoter TSG Member/Scientist from DATT Centre

Member from NABCONS Banker CLHSCO DHSO

SUBSIDY CALCULATION SHEET

Name of the Seed Processing Unit:

Capacity of the Unit :**Unit-I**

Particulars	Length in FT	Width in FT	Total Area in S.Ft	Cost
Land Cost				
A.Ground Floor				
Less- Machine Room				
Net Volume				
B.First Floor				
Less Machine Room				
New Volume				
C. Total Area (A+B)				
D. Plant & Machinery				
i. Seed Germination , GOT & Pathology Testing				
ii. Seed Extraction & Processing				
iii. Seeds Storage				
iv. Seeds Treating /Coating				
v. Seeds Weighing, Packing & Printing				
Vi. Office Furniture, Computers & Miscellaneous				
E. R & D Farm as other fixed assets				
F. Licensing works like agriculture dept, Pollution CFE & CFO, Fire dept NOC, DSIR Reconginsation, etc as Pre Operative expenditure				
G. Working capital				
Total Cost of the project	Lakh			
Total Eligible subsidy	50 % of the Project cost			
(50% of cost)				

Certificates:

1. This is to certify that the promoter has established Seed Infrastructure Unit 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 towards 2nd and final installment to the subsidy reserve fund account bearing number : ----- and IFSC Code: -----, Bank:-----, Branch:-----.

Promoter

TSG Member/Scientist from DATT Centre

Member from NABCONS

Banker

CLHSCO

DHSO

II. Establishment of New Gardens (Area Expansion for Fruits)

Objective:

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

Pattern of Assistance:

- The assistance is 40% of admissible unit cost as per MIDH norms and shall be provided for 3 years at 60 : 20 : 20 ratio for 1st, 2nd & 3rd years respectively.
- A beneficiary can avail maximum assistance upto 4 Ha.

Non-negotiable under the component of Area Expansion

1. District Horticulture Mission should ensure that Area Expansion (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 DHSOs & 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 to be 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 Mee Seva.
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. DHSO shall organize training programmes to the beneficiaries identified under Establishment of New Gardens, on all aspects of scientific Package of practices followed for concerned crops.

11. HO & HEO 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, DHSO should inspect a minimum of 50% of the identified or sanctioned fields.
12. Selection, documentation and Hortnet registration process should be completed in a time bound manner.
13. Before permitting the beneficiaries to start land preparation, pitting etc., the DHSO should ensure to take approval of DMC for the selected beneficiaries.
14. DHSO 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 DHSO login. In turn the DHSO 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 DHSO s 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 assistance pertaining to the plant material shall be released to the farmers through DBT after submission of Bills/ invoices and uploading in HORTNET.

B. Inputs like Vermi compost, FYM, Irrigation, Inter crop, Labour Charges & implements like Gardens tools etc.,

Assistance pertaining to inputs like Vermi compost, 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 Accounts after certifying by the concerned HOs, only filing and DMC approval.

With regards to implements like Gardens tools etc., the farmers shall procure the garden tools and invoices/ bills/ vouchers may be uploaded in the HORTNET and the subsidy shall be given to the farmers in the form of cash through online transfer into farmers Account.

Pattern of Assistance

i. MANGO (5M x 5M)

No. of Plants per Ha. 400

Sl. No	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2018-19)	2nd Year (2019-20)	3rd year (2020-21)	
1	Plant Material (@Rs30/- per plant)	16200	4800	1200	480	6480
2	Inputs					
i	FYM	10000	800	500	500	1800
ii	Neem Cake / Vermicompost	9000	400	400	500	1300
iii	Inorganic fertilizers and Micro Nutrients	32931	2140	900	1240	4280
iv	PP Chemicals/ Bio pesticides	12450	1700	280	560	2540
v	Implements (Secateurs, Spade, Pick axe)	1000	0	0	0	0
Total of Inputs		65381	5040	2080	2800	9920
Total (Plant Material + Inputs)		81581	9840	3280	3280	16400

Remarks : The Total cost (Plant Material + Inputs) is restricted to 41,000/- as per the norms of NHM and the subsidy is 40% of the restricted amount.

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	1 st year	2 nd year	3 rd year
I	Organic Manures					
	Farm Yard Manure	Tones		3.2	1.6	3.2
	Vermicompost / Neem Cake	Kgs	40 Kg	160	240	320
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	320	200	300
	Urea	Kgs	50 Kg	35	70	105
	M.O.P.	Kgs	50 Kg	27	54	80
III	Bio-Fertilisers					
	PSB	Kg	500 grms	4	4	4
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	1.2	1.6	2
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	1	1.5	2
	Dimethoate	Ltrs	500 ml	1	1.5	2
	C.O.C. 50% WP	Kgs	500 gr	1	1	1

ii. GUAVA (3M X 3M)

No. of Plants per Ha. 1111

Sl. No	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy
			1st year (2018-19)	2nd Year (2019-20)	3rd year (2020-21)	(in Rs.) per Ha.
1	Plant Material (@Rs30/- per plant)	45000	13332	3336	1332	18000
2	Inputs					
i	FYM	10000	800	500	800	2100
ii	Neem Cake / Vermicompost	12375	800	800	1200	2800
iii	Inorganic fertilizers and Micro Nutrients	47310	1918	730	1534	4182
iv	PP Chemicals/ Bio pesticides	20175	750	500	1000	2250
v	Implements (Secateurs, Spade, Pick axe)	1000	0	0	0	0
Total of Inputs		90860	4268	2530	4534	11332
Total (Plant Material + Inputs)		135860	17600	5866	5866	29332

Remarks : The Total cost (Plant Material + Inputs) is restricted to 73327/- as per the norms of NHM and the subsidy is 40% of the restricted amount.

INPUT PACKAGE FOR GUAVA (3m x 3m) PER ACRE.						
Spacing: 5m X 5m			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	1.6	3.2
	Vermicompost / Neem Cake	Kgs	40 Kg	220	330	440
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	222	222	333
	Urea	Kgs	50 Kg	96.5	193	289.5
	M.O.P.	Kgs	50 Kg	75	150	225
III	Bio-Fertilisers					
	PSB	Kg	500 grms	4	4	4
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	1.2	1.6	2
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	1	1.5	2
	Dichlorvas 76%EC	Ltrs	500 ml	1	1.5	2
	C.O.C. 50% WP	Kgs	500 gr	1	2	3

iii. APPLE BER PLANTATION

Spacing: 5 M X 5 M

No. of plants: 400 / Ha

Sl. No	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2018-19)	2nd Year (2019-20)	3rd year (2020-21)	
1	Plant Material (@Rs30/- per plant)	21600	6400	1600	640	8640
2	Inputs					
i	FYM	7500	400	300	400	1100
ii	Neem Cake / Vermicompost	9000	400	400	600	1400
iii	Inorganic fertilizers and Micro Nutrients	21261	700	300	660	1660
iv	PP Chemicals/ Bio pesticides	15850	500	200	500	1200
v	Implements (Secateurs, Spade, Pick axe)	500	0	0	0	0
Total of Inputs		54111	2000	1200	2160	5360
Total (Plant Material + Inputs)		75711	8400	2800	2800	14000

Remarks : The Total cost (Plant Material + Inputs) is restricted to 35000/- as per the norms of NHM and the subsidy is 40% of the restricted amount.

INPUT PACKAGE FOR APPLE BER (5 m x 5 m) 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		3	1	2
	Vermicompost / Neem Cake	Kgs	40 Kg	160	240	320
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	200	100	150
	Urea	Kgs	50 Kg	35	75	105
	M.O.P.	Kgs	50 Kg	16	32	48
III	Bio-Fertilisers					
	PSB	Kg	500 grms	2	2	2
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	1	1.5	2
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	1	1.5	1.5
	Dichlorvas 76%EC	Ltrs	500 ml	1	1.5	1.5
	Mancozeb 6.5% + Carbendazim 12%	Kgs	500 gr	1	1.5	1.5

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

Sl. No	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2018-19)	2nd Year (2019-20)	3rd year (2020-21)	
1	Plant Material (@Rs25/- per plant)	22525	6670	1670	670	9010
2	Inputs					
i	FYM	10000	1200	900	900	3000
ii	Neem Cake / Vermicompost	13000	1200	1000	1000	3200
iii	Inorganic fertilizers and Micro Nutrients	40784	4500	1000	1500	7000
iv	PP Chemicals/ Bio pesticides	37100	2434	764	1264	4462
v	Implements (Secateurs, Spade, Pick axe)	1000	0	0	0	0
Total of Inputs		101884	9334	3664	4664	17662
Total (Plant Material + Inputs)		124409	16004	5334	5334	26672

Remarks : The Total cost (Plant Material + Inputs) is restricted to 66,680/- as per the norms of NHM and the subsidy is 40% of the restricted amount i.e., Rs. 66,680/-.

INPUT PACKAGE FOR POMEGRANATE (5m x 3m) PER ACRE.

Spacing: 5m X 5m		No. of plants per Acre: 267				
Sl. No	Inputs	Unit	Pkg. size	1 st year	2 nd year	3 rd year
I	Organic Manures					
	Farm Yard Manure	Tones		3.2	1.6	3.2
	Vermicompost / Neem Cake	Kgs	40 Kg	260	390	390
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	167	417	417
	Urea	Kgs	50 Kg	55	160	160
	M.O.P.	Kgs	50 Kg	67	67	67
III	Bio-Fertilisers					
	PSB	Kg	500 grms	2	2	2
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	2	3	3
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	1	1.5	1.5
	Dichlorvas 76%EC	Ltrs	500 ml	1	1.5	1.5
	C.O.C. 50% WP	Kgs	500 gr	2	3	3
	Streptocyclin	grms	6gr	200	400	400

v. CITRUS/SWEET ORANGE / KINNOW / MANDARIN

Spacing: 6M X 6M

No. of Plants per Ha. 278

Sl. No	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2018-19)	2nd Year (2019-20)	3rd year (2020-21)	
1	Plant Material (@Rs25/- per plant)	13125	3892	966	392	5250
2	Inputs					
i	FYM	10000	1000	500	500	2000
ii	Neem Cake / Vermicompost	6225	700	400	500	1600
iii	Inorganic fertilizers and Micro Nutrients	23584	2500	800	1100	4400
iv	PP Chemicals/ Bio pesticides	18961	1509	534	708	2751
v	Implements (Secateurs, Spade, Pick axe)	1000	0	0	0	0
Total of Inputs		59770	5709	2234	2808	10751
Total (Plant Material + Inputs)		72895	9601	3200	3200	16001

Remarks : The Total cost (Plant Material + Inputs) is restricted to 40,008/- as per the norms of NHM and the subsidy is 40% of the restricted amount.

INPUT PACKAGE FOR SWEET ORANGE (6m x 6m) PER ACRE.						
Spacing: 5m X 5m			No. of plants per Acre: 111			
Sl. No	Inputs	Unit	Pkg. size	1st year	2nd year	3rd year
I	Organic Manures					
	Farm Yard Manure	Tones		3.2	1.6	3.2
	Vermicompost / Neem Cake	Kgs	40 Kg	111	165	222
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	220	87	104
	Urea	Kgs	50 Kg	48	72	96
	M.O.P.	Kgs	50 Kg	22	31	40
III	Bio-Fertilisers					
	PSB	Kg	500 grms	2	2	2
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	2	3	3
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	1	1.5	1.5
	Profenophos	Ltrs	500 ml	1	1.5	1.5
	C.O.C. 50% WP	Kgs	500 gr	1	1.5	2
	Streptocyclin	grms	6gr	36	54	72

vi. ACID LIME

Spacing: 6M X 6M

No. of Plants per Ha. 278

Sl. No	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2018-19)	2nd Year (2019-20)	3rd year (2020-21)	
1	Plant Material (@Rs25/- per plant)	13125	3892	966	392	5250
2	Inputs					
i	FYM	10000	1000	500	500	2000
ii	Neem Cake / Vermicompost	6225	700	400	500	1600
iii	Inorganic fertilizers and Micro Nutrients	23584	2500	800	1100	4400
iv	PP Chemicals/ Bio pesticides	18961	1509	534	708	2751
v	Implements (Secateurs, Spade, Pick axe)	1000	0	0	0	0
Total of Inputs		59770	5709	2234	2808	10751
Total (Plant Material + Inputs)		72895	9601	3200	3200	16001

Remarks : The Total cost (Plant Material + Inputs) is restricted to 40008/- as per the norms of NHM and the subsidy is 40% of the restricted amount.

INPUT PACKAGE FOR ACIDLIME (6m x 6m) PER ACRE.						
Spacing: 5m X 5m			No. of plants per Acre: 111			
Sl. No	Inputs	Unit	Pkg. size	1 st year	2 nd year	3 rd year
I	Organic Manures					
	Farm Yard Manure	Tones		3.2	1.6	3.2
	Vermicompost / Neem Cake	Kgs	40 Kg	111	165	222
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	220	87	104
	Urea	Kgs	50 Kg	48	72	96
	M.O.P.	Kgs	50 Kg	22	31	40
III	Bio-Fertilisers					
	PSB	Kg	500 grms	2	2	2
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	2	3	3
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	1	1.5	1.5
	Profenophos	Ltrs	500 ml	1	1.5	1.5
	C.O.C. 50% WP	Kgs	500 gr	1	1.5	2
	Streptocyclin	grms	6gr	36	54	72

vii. CUSTARD APPLE

Spacing: 2.5 M X 2.5 M

No. of Plants per Ha. 1600

Sl. No	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2018-19)	2nd Year (2019-20)	3rd year (2020-21)	
1	Plant Material (@Rs25/- per plant)	62000	16000	4000	1600	21600
2	Inputs					
i	FYM	22500	1200	1000	1000	3200
ii	Neem Cake / Vermicompost	24000	1300	1000	1000	3300
iii	Inorganic fertilizers and Micro Nutrients	69637	4500	1500	3500	9500
iv	PP Chemicals/ Bio pesticides	22100	2440	980	1380	4800
v	Implements (Secateurs, Spade, Pick axe)	1000	0	0	0	0
Total of Inputs		139237	9440	4480	6880	20800
Total (Plant Material + Inputs)		201237	25440	8480	8480	42400

Remarks : The Total cost (Plant Material + Inputs) is restricted to 106000/- as per the norms of NHM and the subsidy is 40% of the restricted amount.

INPUT PACKAGE FOR CUSTARD APPLE (2.5m x 2.5m) PER ACRE.						
Spacing: 2.5m 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		6	6	6
	Vermicompost / Neem Cake	Kgs	40 Kg	640	640	640
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	500	500	500
	Urea	Kgs	50 Kg	350	350	350
	M.O.P.	Kgs	50 Kg	160	160	160
III	Bio-Fertilisers					
	PSB	Kg	500 grms	2	2	2
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	2	3	3
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	1	1.5	1.5
	Dichlorvas 76%EC	Ltrs	500 ml	1	1.5	1.5
	C.O.C. 50% WP	Kgs	500 gr	2	3	3

viii. FIG PLANTATION

Spacing: 2.5 M X 2.5 M

No. of Plants per Ha. 1600

Sl. No	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2018-19)	2nd Year (2019-20)	3rd year (2020-21)	
1	Plant Material (@Rs22/- per plant)	47520	14080	3520	1480	19080
2	Inputs					
i	FYM	22500	1000	700	1000	2700
ii	Neem Cake / Vermicompost	24000	1000	700	1000	2700
iii	Inorganic fertilizers and Micro Nutrients	46314	2400	1000	2320	5720
iv	PP Chemicals/ Bio pesticides	22100	1440	720	840	3000
v	Implements (Secateurs, Spade, Pick axe)	1000	0	0	0	0
Total of Inputs		115914	5840	3120	5160	14120
Total (Plant Material + Inputs)		163434	19920	6640	6640	33200

Remarks : The Total cost (Plant Material + Inputs) is restricted to 83000/- as per the norms of NHM and the subsidy is 40% of the restricted amount.

INPUT PACKAGE FOR FIG (2.5m x 2.5m) PER ACRE.

Spacing: 2.5m 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		6	6	6
	Vermicompost / Neem Cake	Kgs	40 Kg	640	640	640
II	Inorganic Fertilizers					
	S.S.P.	Kgs	50 Kg	320	256	384
	Urea	Kgs	50 Kg	64	128	192
	M.O.P.	Kgs	50 Kg	64	128	192
III	Bio-Fertilisers					
	PSB	Kg	500 grms	2	2	2
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kgs	Kg	2	3	3
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	1	1.5	1.5
	Dichlorvas 76%EC	Ltrs	500 ml	1	1.5	1.5
	C.O.C. 50% WP	Kgs	500 gr	2	3	3

All District officers should send information in the annexure prescribed below for release of subsidy along with DMC approval.

RELEASE - ANNEXURE																		
S. No	COMPONENTS / CROPS	Unit	Assistance (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.)				Remarks
				PHY (Ha)	FIN (Rs. in Lakhs)	G	S	T	To	G	S	T	To	G	S	T	To	
1																		
2																		

AREA EXPANSION FOR 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.

The pattern of assistance & guidelines for establishment of **Vegetable Crop Colonies** (Tomato, Brinjal, Chillies & Cucurbits) are as mentioned below:

1. TOMATO, BRINJAL SEEDLINGS

Under Gen, SC & ST categories

Subsidy Maximum 1 Ha. / beneficiary

S. No	Component	Total permissible cost per Acre (in Rs.)	Subsidy per Acre @ 40%	Farmer contribution	subsidy & non subsidy to whom to be released
1	Seedlings @ 1.00 rupee per Seedlings (8000 seedlings required per 1 acre) (Rs. 1.00 rupee x 8000=8000) inclusive of packings	8000	6500	1500	<p>1. Non-subsidy an amount of Rs. 1500/- per acre shall be paid in favour of ADH-COE, Jeedimetla / ADH-COE, Mulugu in the form of Demand Draft and the same should be submit to the ADH-COE, Jeedimetla / ADH-COE, Mulugu at the time of lifting seedlings under intimation to the Head Office.</p> <p>2. Subsidy an amount of Rs.6500/- shall be released to the ADH-COE, Jeedimetla / ADH-COE, Mulugu for supplying of Seedlings by the Head Office.</p> <p>3. Subsidy an amount of Rs.1000/- shall be released to the Farmers accounts towards inputs after submission of the bills for an amount of Rs.6500/- per Acre by the Head Office.</p> <p>4. The transportation charges of Rs. 500/- per Acre shall be released to the concerned DHSOs by the Head Office.</p> <p>5. Available interest funds may be utilized towards meeting transportation charges by the DHSOs for time being and same shall be reimbursement to DHSOs on submission of bills and incorporating in HORTNET.</p>
2	Transportation charges	500	500	0	
3	Labour charges	5000	0	5000	
4	Inputs (Fertilizers & Pesticides)	6500	1000	5500	
	TOTAL	20000	8000	12000	

2. CHILLIES/CAPSICUM SEEDLINGS

Under Gen, SC & ST categories

Subsidy Maximum 1 Ha. / beneficiary

S. No	Component	Total permissible cost per Acre (in Rs.)	Subsidy per Acre @ 40%	Farmer contribution @ 0.20 paise per seedling	subsidy to whom to be released
1	Seedlings @ 1.25 rupee per Seedlings (Rs. 1.25 rupee x 6400 = 8000)	8000	6720	1280	<p>1. Non-subsidy an amount of Rs. 1280/- per acre shall be paid in favour of ADH-COE, Jeedimetla / ADH-COE, Mulugu in the form of Demand Draft and the same should be submit to the ADH-COE, Jeedimetla / ADH-COE, Mulugu at the time of lifting seedlings under intimation to the Head Office.</p> <p>2. Subsidy an amount of Rs.6720/- shall be released to the ADH-COE, Jeedimetla / ADH-COE, Mulugu for supplying of Seedlings by the Head Office.</p> <p>3. Subsidy an amount of Rs.780/- shall be released to the Farmers accounts towards inputs after submission of the bills for an amount of Rs.6000/- per Acre by the Head Office.</p> <p>4. The transportation charges of Rs. 500/- per Acre shall be released to the concerned DHSOs</p> <p>5. Available interest funds may be utilized towards meeting transportation charges by the DHSOs for time being and same shall be reimbursement to DHSOs on submission of bills and incorporating in HORTNET</p>
2	Transportation charges	500	500	0	
3	Labour charges	5500	0	5500	
4	Inputs (Fertilizers & Pesticides)	6000	780	5220	
	TOTAL	20000	8000	12000	

3. CUCURBITS / BITTER GOURD SEEDLINGS

Under Gen, SC & ST categories

Subsidy Maximum 1 Ha. / beneficiary

S. No	Component	Total permissible cost per Acre (in Rs.)	Subsidy per Acre @ 40%	Farmer contribution	subsidy to whom to be released
1	Seedlings @ 3.55 rupees Total No of Seedlings 2500 per Acre (3.55x2500= 8875)	8875	7500	1375	<p>1. Non-subsidy an amount of Rs. 1375/- per acre shall be paid in favour of ADH-COE, Jeedimetla / ADH-COE, Mulugu , in the form of Demand Draft and the same should be submit to the ADH-COE, Jeedimetla / ADH-COE, Mulugu at the time of lifting seedlings under intimation to the Head Office.</p> <p>2. Subsidy an amount of Rs.7500/- shall be released to the ADH-COE, Jeedimetla / ADH-COE, Mulugu for supplying of Seedlings by the Head Office.</p> <p>3. The transportation charges of Rs. 500/-</p>
2	Transportation charges	500	500	0	
3	Labour charges	2500	0	2500	

4	Inputs (Fertilizers & Pesticides)	8125	0	8125	per Acre shall be released to the concerned DHSOs 4. Available interest funds may be utilized towards meeting transportation charges by the DHSOs for time being and same shall be reimbursement to DHSOs on submission of bills and incorporating in HORTNET
	TOTAL	20000	8000	12000	

- SF/MF/W/SC/ST farmers are eligible.
- Subsidy will be given to maximum 1 ha per beneficiary
- The DHSOs 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.
- In case of below 1 Ha farmers the subsidy will be admissible on prorate basis.
- The non-subsidy portion towards seedlings cost shall to be paid in the form of DD, drawn in favor of “ADH-COE, Jeedimetla / ADH-COE, Mulugu”.
- Transportation charges shall be reimbursed to DHSOs on submission of bills and incorporating in HORTNET.
- The farmer shall submit the necessary bills/vouchers towards Inputs for arranging of subsidy to the farmers accounts through DBT.
- The subsidy portion for seed component will be released to ADH-COE, Jeedimetla / ADH-COE, Mulugu.
- The farmers are to be trained in advance on the latest technologies in cultivation aspects INM / IPM /growing of vegetables under shade nets etc. for getting higher yields / higher productivity.
- 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 DHSOs are not permitted to inter change the budget allocation among the sub components 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 CLHSO is responsible for proper inspection, certification of invoice, and obtaining digital photograph of farmers along with material supplied on subsidy in their Jurisdiction.
- The CLHSO should strictly follow the SC/ST allocations. Priority should be given to woman farmers and SHG groups.
- The CLHSO should record the data on production / productivity after adoption of latest technology in cluster by 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, after planting for release of Subsidy after uploading the beneficiary information in Hortnet.

All District officers should send information in the annexure prescribed below for release of subsidy along with DMC approval.

RELEASE - ANNEXURE																	
S. No	COMPONENTS / CROPS	Unit	Assistance (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.)			
				PHY (Ha)	FIN (Rs.in Lakhs)	G en	S C P	T S P	Tot al	G en	S C P	T S P	Tot al	G en	S C P	T S P	Tot 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

DHSO

III. 2nd year & 3rd year maintenance

A. 2nd Year maintenance of plantations established during 2017-18

- **75%** of survival is mandatory for availing assistance under 2nd year maintenance.
- 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 2017-18)

Sl.No	Name of the Crop	Assistance (in Rs. per Ha.) - II Year (2017-18)		
		Plant Material	Inputs	Total Assistance
1	Mango (5m x 5m)(Himayat, Dasherri, Kesar)	1200	2080	3280
2	Guava (3m x 3m)	3336	2530	5866
3	Apple Ber (5m x 5m)	1600	1200	2800
4	Pomegranate (5m x 3m)	1670	3664	5334
5	Citrus (Sweet orange/Kinnow/Mandarin) (6m x 6m)	966	2234	3200
6	Acid lime (6m x 6m)	966	2234	3200
7	Custard apple (2.5 x 2.5m)	4000	4480	8480

B. 3rd Year maintenance of plantations established during 2016-17

- **90%** of survival is mandatory for availing assistance under 3rd year maintenance.
- 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 2016-17)

Sl. No	Name of the Crop	Assistance (in Rs. per Ha.) - III Year (2016-17)		
		Plant Material	Inputs	Total Assistance
1	Mango (5m x 5m)	480	2800	3280
2	Citrus (Sweet orange/Kinnow/Mandarin) (6m x 6m)	392	2808	3200
3	Acid lime (6m x 6m)	392	2808	3200
4	Guava (3m x 3m)	1332	4534	5866
5	Apple Ber (5x5 M)	640	2160	2800
6	Fig (2.5x2.5 M)	1480	5160	6640
7	Custard Apple (2.5x2.5 M)	1600	6880	8480
8	Pomegranate (5m x 3m)	670	4664	5334

- ✓ 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 to the farmers account directly through online.
- ✓ 100% inspections by HO is mandatory. Whereas, DHSOs should inspect a minimum of 50% of beneficiaries fields.

All District officers should send information in the annexure prescribed below for release of subsidy along with DMC approval.

RELEASE - ANNEXURE																	
S. No	COMPONENTS / CROPS	Unit	Assistance (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.)			
				PHY (Ha)	FIN (Rs.in Lakh s)	Gen	SC P	TS P	Total	Gen	SC P	TS P	Total	Gen	SC P	TS P	Total
1																	
2																	

IV. CREATION OF WATER RESOURCES (FARM PONDS)

Objective: 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.

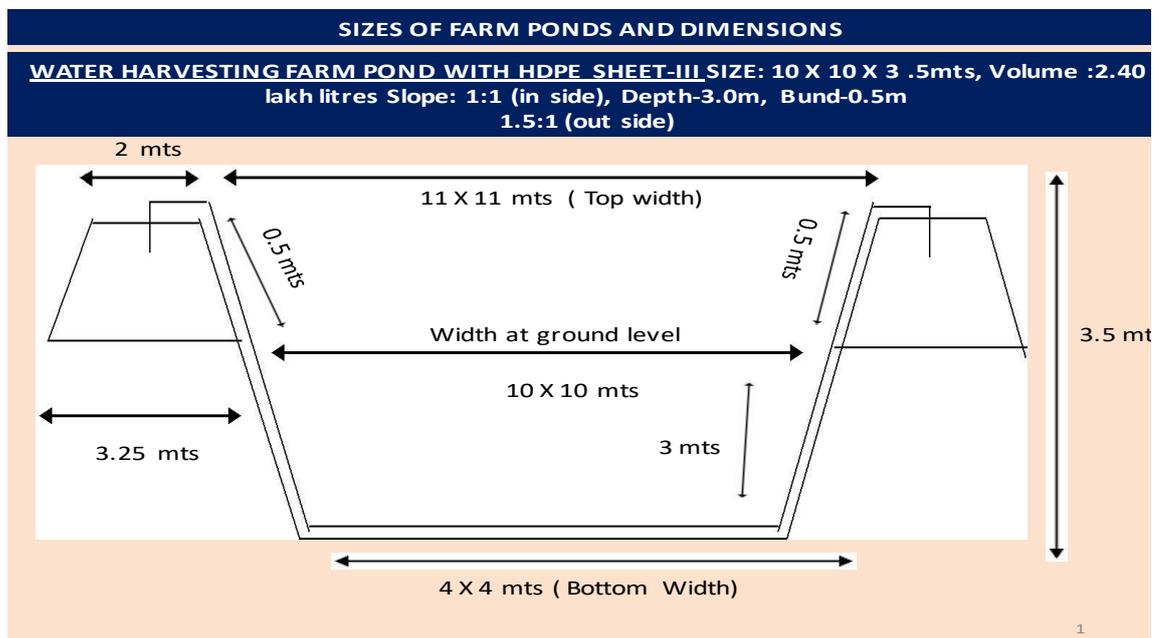
These are constructed by excavating the soil and depositing the earth on the banks to form bund. The HDPE geo-membrane sheet is laid in the excavated pond to arrest seepage and infiltration losses.

Different sizes of Farm ponds:

1. 10mx10mx3.5 m
2. 14mx14mx4m
3. 15mx15mx3.5m
4. 20mx20mx3.5m
5. 21mx21mx4m
6. 27mx27mx4m
7. 35mx35mx4m

The details of specifications & subsidy of different sizes of Farm Ponds are as follows:

1) 10X10X3.5 m



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 0.5m
5. Depth below Ground level 3m
6. Bund width at top 2m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 2,40,000 Lakh Liters

Calculation:

I. Subsidy of Farm Pond:

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

$$= \frac{4 \times 4 + 11 \times 11}{2} \times 3.5$$

$$= 239.75 \text{ m}^3 \Rightarrow 240 \text{ m}^3$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond is 240 X 1000 = 2,40,000 litres
- Subsidy per one cubic meter = Rs. 62.50/- (as per GoI)
- Hence, the total subsidy is Rs.15,000/- (as per GoI)

II. Requirement of Geo-membrane sheet

Bottom width + 2 X Side slope length + 2 X side anchoring

$$\begin{aligned} &= 4 + 2 \times \sqrt{3.5^2 + 3.5^2} + 2 \times 1.5 \\ &= 4 + 2 \times \sqrt{3.5^2 + 3.5^2} + 3 \\ &= 4 + 2 \times \sqrt{2 \times 3.5^2} + 3 \\ &= 7 + 2 \times 3.5 \sqrt{2} \\ &= 7 + 7 \times 1.414 \\ &= 7 + 9.898 \\ &= 7 + 10 \\ &= 17 \times 17 \text{ (02 sides)} \\ &= 289 \text{ m}^2 \end{aligned}$$

III. Estimated quantity/ Volume for Excavation of Farm Pond

Bottom Area + Ground surface Area X Depth below the Ground

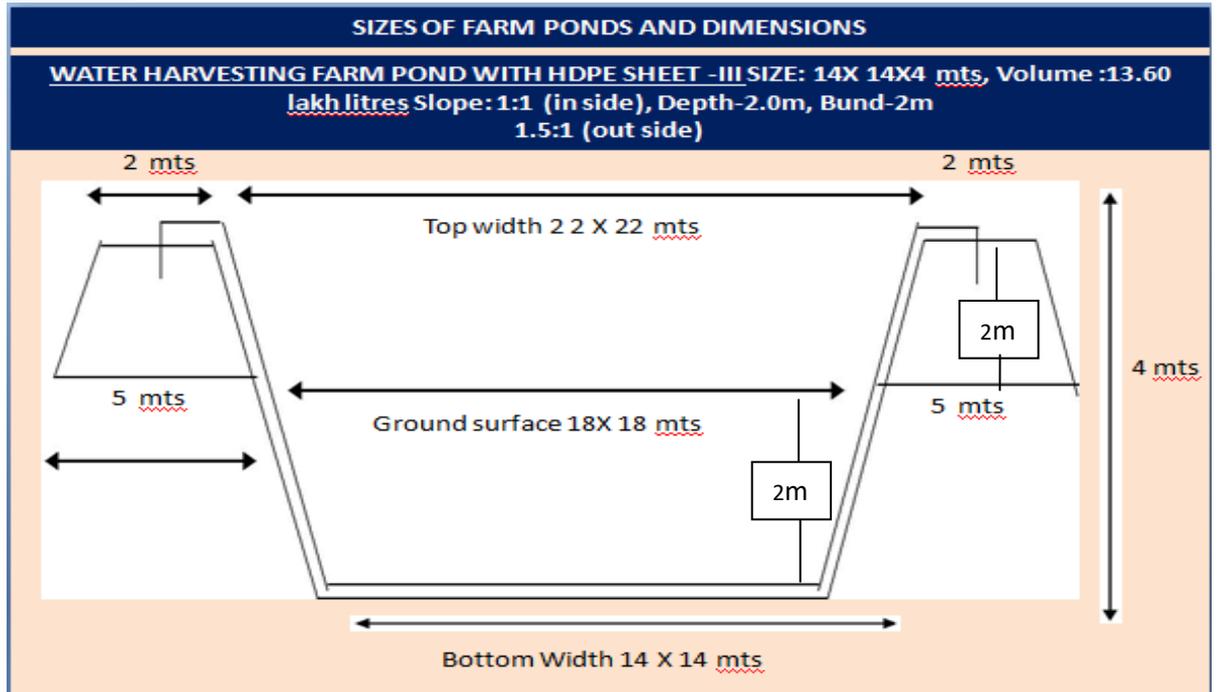
$$\begin{aligned} &\frac{2}{2} \\ &= \frac{4 \times 4 + 10 \times 10}{2} \times 3 \\ &= \frac{16 + 100}{2} \times 3 \\ &= \frac{116 \times 3}{2} \\ &= 174 \text{ m}^3 \end{aligned}$$

IV. Filling of Earth in Bund formation

$$\begin{aligned} &= \frac{3.25 + 2}{2} \times 0.5 \\ &= 1.3125 \times 44 \text{ (Top X Bottom, 11 X 4 = 44)} \\ &= 57.75 \text{ m}^3 \end{aligned}$$

- The fencing & Display Board at farm pond is mandatory.
- The cost towards fencing and preparation of Display Board and any other additional cost is to be borne by the beneficiary.

2) 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:

I. Subsidy of Farm Pond:

Top Area + Bottom Area X Total Depth of the pond

$$\begin{aligned}
 &= \frac{14 \times 14 + 22 \times 22}{2} \times 4 \\
 &= \frac{196 + 484}{2} \times 4 \\
 &= 1360 \text{ m}^3
 \end{aligned}$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond is 1360 X 1000 = 13,60,000 litres
- Subsidy per one cubic meter = Rs. 62.50/- (as per GoI)
- Hence, the total subsidy is Rs.85,000/- (as per GoI)

II. Requirement of Geo-memberne sheet

Bottom width + 2 X Side slope length + 2 X side anchoring

$$\begin{aligned} &= 14 + 2 \times \sqrt{4^2 + 4^2} + 2 \times 1.5 \\ &= 14 + 2 \times \sqrt{4^2 + 4^2} + 3 \\ &= 14 + 2 \times \sqrt{2 \times 4^2} + 3 \\ &= 17 + 2 \times 4\sqrt{2} \\ &= 17 + 8 \times 1.414 \\ &= 17 + 11.31 \\ &= 28.31 \\ &= 28.31 \times 28.31 \text{ (02 sides)} \\ &= 801 \text{ m}^2 \end{aligned}$$

III. Estimated quantity/ Volume for Excavation of Farm Pond

Bottom Area + Ground surface Area X Depth below the Ground

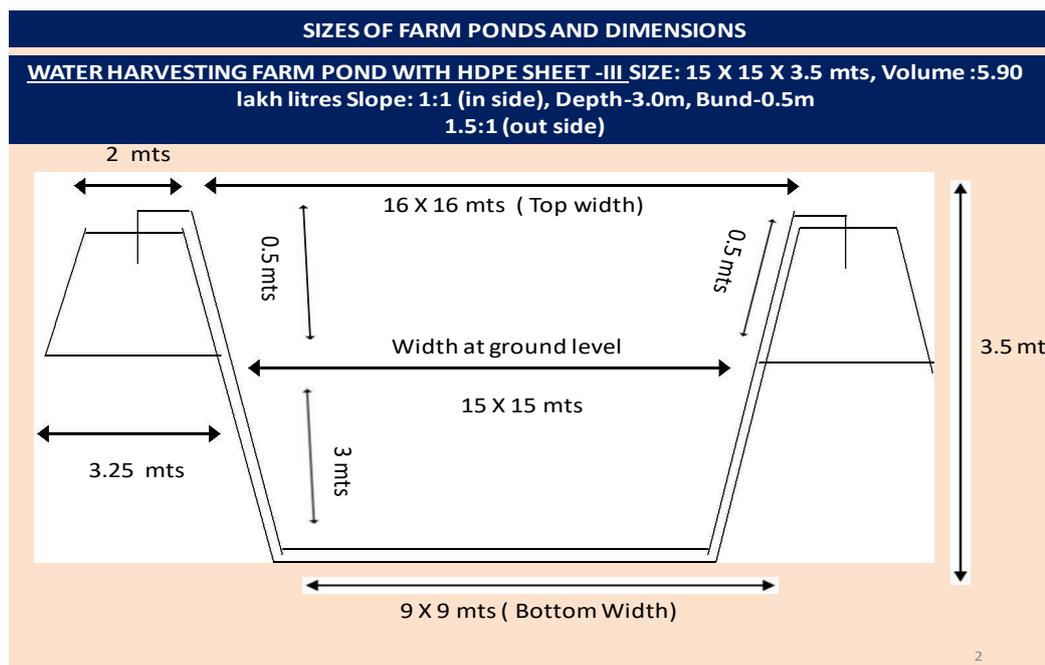
$$\begin{aligned} & \frac{2}{2} \\ &= \frac{14 \times 14 + 18 \times 18}{2} \times 2 \\ &= \frac{196 + 484}{2} \times 2 \\ &= 680 \text{ m}^3 \end{aligned}$$

IV. Filling of Earth in Bund formation

$$\begin{aligned} &= \frac{5 + 2}{2} \times 2 \\ &= 7 \times 308 \\ &= 2156 \text{ m}^3 \end{aligned}$$

- The fencing & Display Board at farm pond is mandatory.
- The cost towards fencing and preparation of Display Board and any other additional cost is to be borne by the beneficiary.

3) 15x15x3.5 m



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 2m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 5,90,000 lakh liters

Calculation:

I. Subsidy of Farm Pond:

Top Area + Bottom Area X Total Depth of the pond

$$\begin{aligned}
 &= \frac{16 \times 16 + 9 \times 9}{2} \times 3.5 \\
 &= \frac{225 + 81}{2} \times 3.5 \\
 &= 589.75 \text{ m}^3 \\
 &= 590 \text{ m}^3
 \end{aligned}$$

One cubic meter = 1000 liters of water

- Hence, the total volume of the farm pond is 590 X 1000 = 5,90,000 litres
- Subsidy per one cubic meter = Rs. 62.50/- (as per GoI)
- Hence, the total subsidy is Rs. 36,875/- (as per GoI)

II. Requirement of Geo-membrane sheet

Bottom width + 2 X Side slope length + 2 X side anchoring

$$\begin{aligned} &= 9 + 2 \times \sqrt{3.5^2 + 3.5^2} + 2 \times 1.5 \\ &= 9 + 2 \times \sqrt{3.5^2 + 3.5^2} + 3 \\ &= 9 + 2 \times \sqrt{2 \times 3.5^2} + 3 \\ &= 12 + 2 \times 3.5 \sqrt{2} \\ &= 12 + 7 \times 1.414 \\ &= 12 + 9.898 \\ &= 21.89 = 22 \\ &= 22 \times 22 \text{ (02 sides)} \\ &= 484 \text{ m}^2 \end{aligned}$$

III. Estimated quantity / Volume of Excavation of Farm Pond

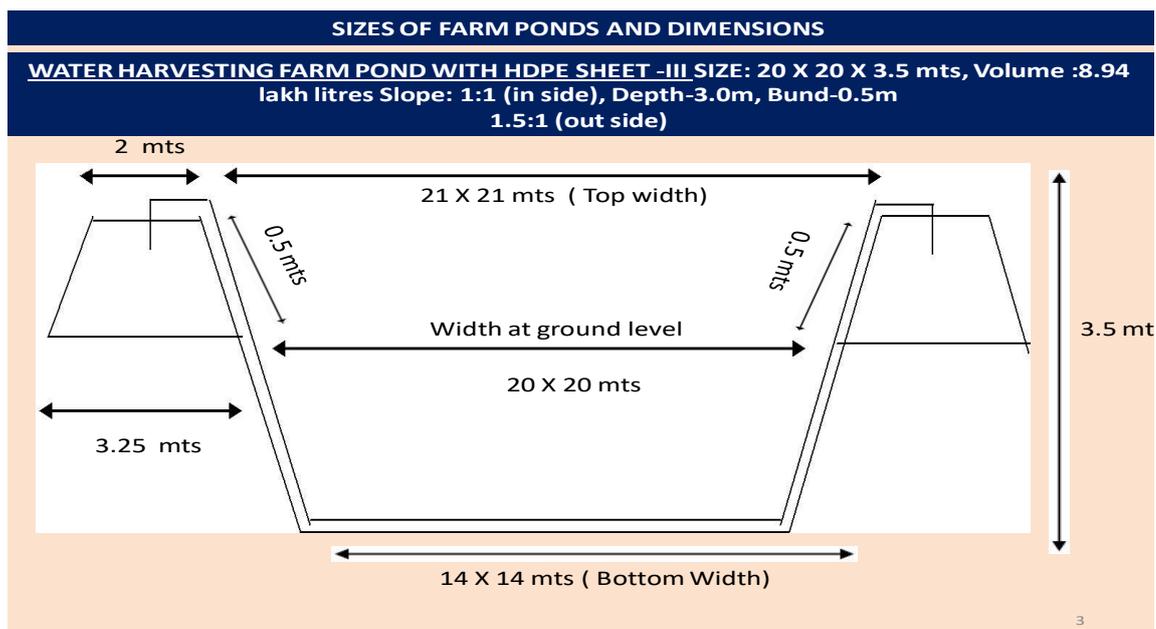
$$\begin{aligned} &\frac{\text{Bottom Area} + \text{Ground surface Area}}{2} \times \text{Depth below the Ground} \\ &= \frac{9 \times 9 + 15 \times 15}{2} \times 3 \\ &= \frac{81 + 225}{2} \times 3 \\ &= \frac{306}{2} \times 3 \\ &= 459 \text{ m}^3 \end{aligned}$$

IV. Filling of Earth in Bund formation

$$\begin{aligned} &= \frac{3.25 + 2}{2} \times 0.5 \\ &= 1.3125 \times 144 \\ &= 189 \text{ m}^3 \end{aligned}$$

- The fencing & Display Board at farm pond is mandatory.
- The cost towards fencing and preparation of Display Board and any other additional cost is to be borne by the beneficiary.

4) 20X20X3.5 m



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 2m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 8,94,000 lakh liters

Calculation:

I. Subsidy of Farm Pond:

$$\begin{aligned} & \frac{\text{Bottom Area} + \text{Top Area}}{2} \times \text{Total Depth of the pond} \\ &= \frac{21 \times 21 + 14 \times 14}{2} \times 3.5 \\ &= \frac{441 + 196}{2} \times 3.5 \\ &= 1114.75 \text{ m}^3 \end{aligned}$$

But as per GOI norms the total cubic meters for the size of 20X20X3 is 894 m³

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond is 894 X 1000 = 8,94,000 litres
- Subsidy per one cubic meter = Rs. 62.50/- (as per GoI)
- Hence, the total subsidy is Rs.75,000/- (as per GoI)

Note: The approved subsidy is Rs.75,000/- as per GOI norms and the subsidy is adopted to Rs.75,000/-.

II. Requirement of Geo-membrane sheet

Bottom width + 2 X Side slope length + 2 X side anchoring

$$\begin{aligned} &= 14 + 2 \times \sqrt{3.5^2 + 3.5^2} + 2 \times 1.5 \\ &= 14 + 2 \times \sqrt{3.5^2 + 3.5^2} + 3 \\ &= 14 + 2 \times \sqrt{2 \times 3.5^2} + 3 \\ &= 17 + 2 \times 3.5 \sqrt{2} \\ &= 17 + 7 \times 1.414 \\ &= 17 + 9.898 \\ &= 17 + 10 \\ &= 27 \times 27 \text{ (02 sides)} \\ &= 729 \text{ m}^2 \end{aligned}$$

III. Estimated quantity for Excavation of Farm Pond

$\frac{\text{Bottom Area} + \text{Ground surface Area}}{2} \times \text{Depth below the Ground}$

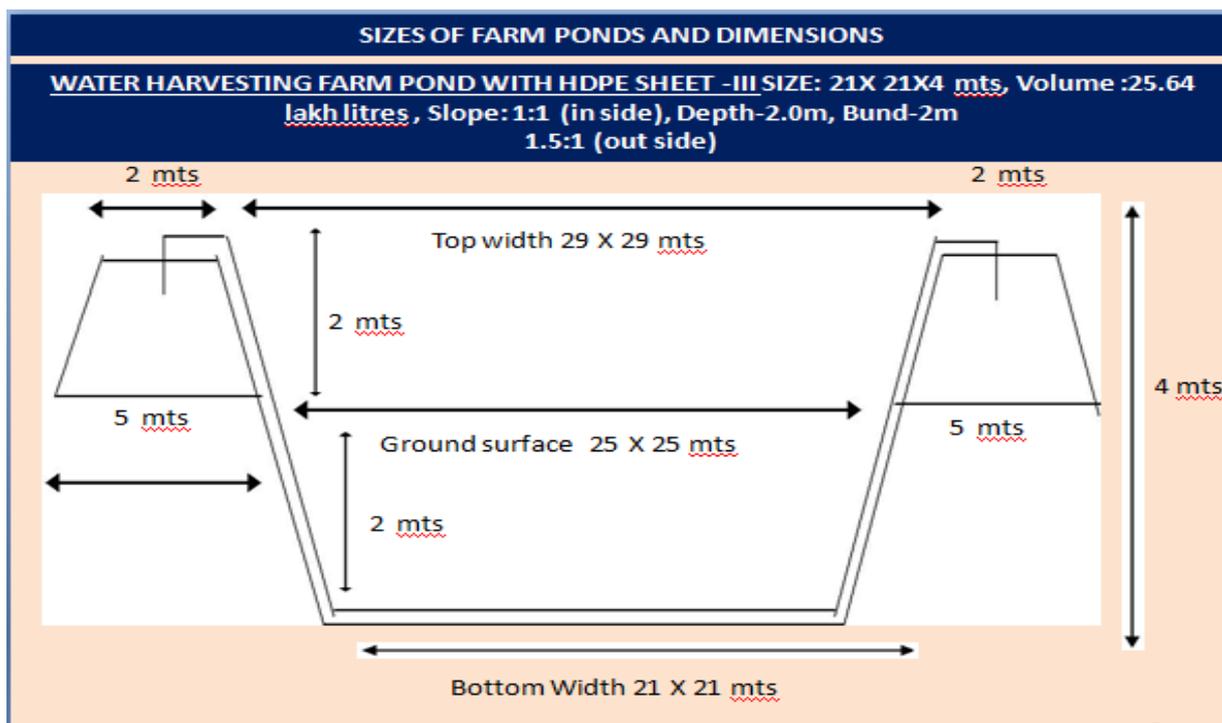
$$\begin{aligned} &= \frac{14 \times 14 + 20 \times 20}{2} \times 3 \\ &= \frac{196 + 400}{2} \times 3 \\ &= \frac{596}{2} \times 3 \\ &= 894 \text{ m}^3 \end{aligned}$$

IV. Filling of Earth in Bund formation

$$\begin{aligned} &= \frac{3.25 + 2}{2} \times 0.5 \\ &= 1.3125 \times 294 \\ &= 385.875 \text{ m}^3 \end{aligned}$$

- The fencing & Display Board at farm pond is mandatory.
- The cost towards fencing and preparation of Display Board and any other additional cost is to be borne by the beneficiary.

5) 21 X 21 X 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:

I. Subsidy of Farm Pond:

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

$$= \frac{21 \times 21 + 29 \times 29}{2} \times 4$$

$$= \frac{441 + 841}{2} \times 4$$

$$= 2564 \text{ m}^3$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond is 2564 X 1000 = 25,64,000 litres
- Subsidy per one cubic meter = Rs. 62.50/- (as per GoI)
- Hence, the total subsidy is Rs.1,60,250/- (as per GoI)

II. Requirement of Geo-memberne sheet

Bottom width + 2 X Side slope length + 2 X side anchoring

$$\begin{aligned} &= 21 + 2 \times \sqrt{4^2 + 4^2} + 2 \times 1.5 \\ &= 21 + 2 \times \sqrt{4^2 + 4^2} + 3 \\ &= 21 + 2 \times \sqrt{2 \times 4^2} + 3 \\ &= 24 + 2 \times 4\sqrt{2} \\ &= 24 + 8 \times 1.414 \\ &= 24 + 11.312 \\ &= 35.312 \\ &= 35.312 \times 35.312 \text{ (02 sides)} \\ &= 1247 \text{ m}^2 \end{aligned}$$

III. Estimated quantity / Volume for Excavation of Farm Pond

Bottom Area + Ground surface Area X Depth below the Ground

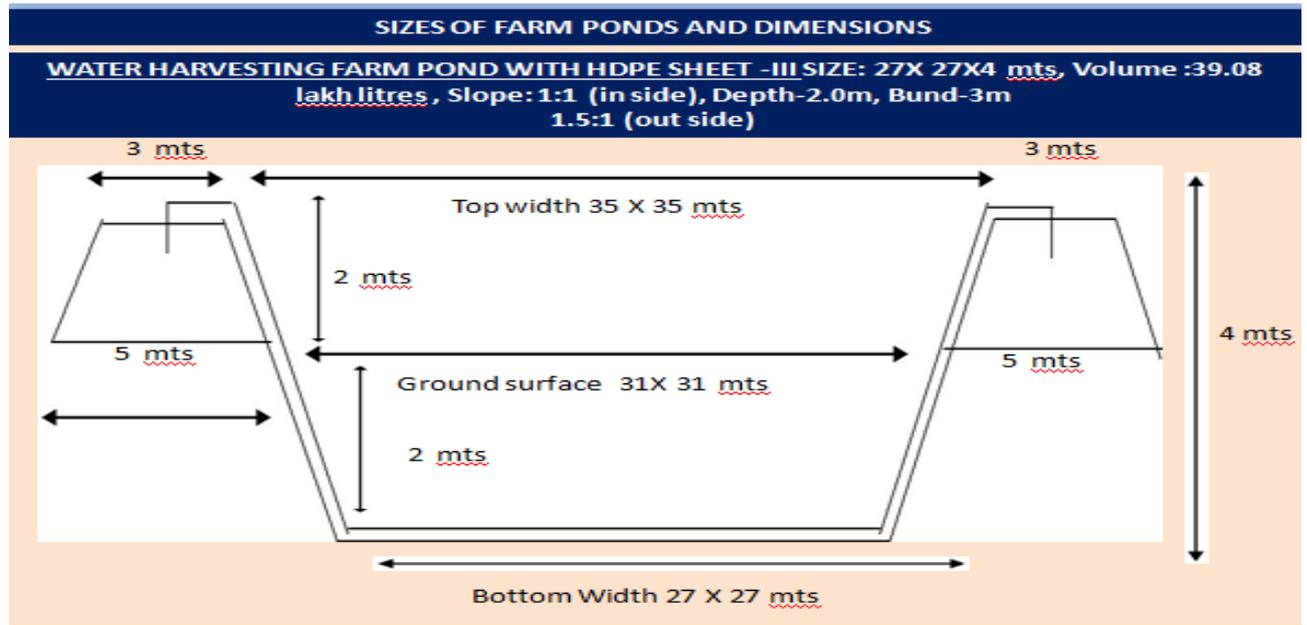
$$\begin{aligned} &\frac{21 \times 21 + 25 \times 25}{2} \times 2 \\ &= \frac{441 + 625}{2} \times 2 \\ &= \frac{1066}{2} \times 2 \\ &= 1066 \text{ m}^3 \end{aligned}$$

IV. Filling of Earth in Bund formation

$$\begin{aligned} &= \frac{5 + 2}{2} \times 2 \\ &= 7 \times 609 \\ &= 4263 \text{ m}^3 \end{aligned}$$

- The fencing & Display Board at farm pond is mandatory.
- The cost towards fencing and preparation of Display Board and any other additional cost is to be borne by the beneficiary.

6) 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 3m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 39,08,000 liters

Calculation:

I. Subsidy of Farm Pond:

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

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

$$= \frac{1225 + 729}{2} \times 4$$

$$= 3908 \text{ m}^3$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond is $3908 \times 1000 = 39,08,000$ litres
- Subsidy per one cubic meter = Rs. 62.50/- (as per GoI)
- Hence, the total subsidy is Rs.2,44,250/- .(as per GoI)

II. Requirement of Geo-memberne sheet

Bottom width + 2 X Side slope length + 2 X side anchoring

$$\begin{aligned} &= 27 + 2 \times \sqrt{4^2 + 4^2} + 2 \times 2.5 \\ &= 27 + 2 \times \sqrt{4^2 + 4^2} + 5 \\ &= 32 + 2 \times \sqrt{2 \times 4^2} \\ &= 32 + 2 \times 4\sqrt{2} \\ &= 32 + 8 \times 1.414 \\ &= 32 + 11.312 \\ &= 43.312 \\ &= 43 \\ &= 43 \times 43 \text{ (02 sides)} \\ &= 1849 \text{ m}^2 \end{aligned}$$

III. Estimated quantity / Volume for Excavation of Farm Pond

Bottom Area + Ground surface Area X Depth below the Ground

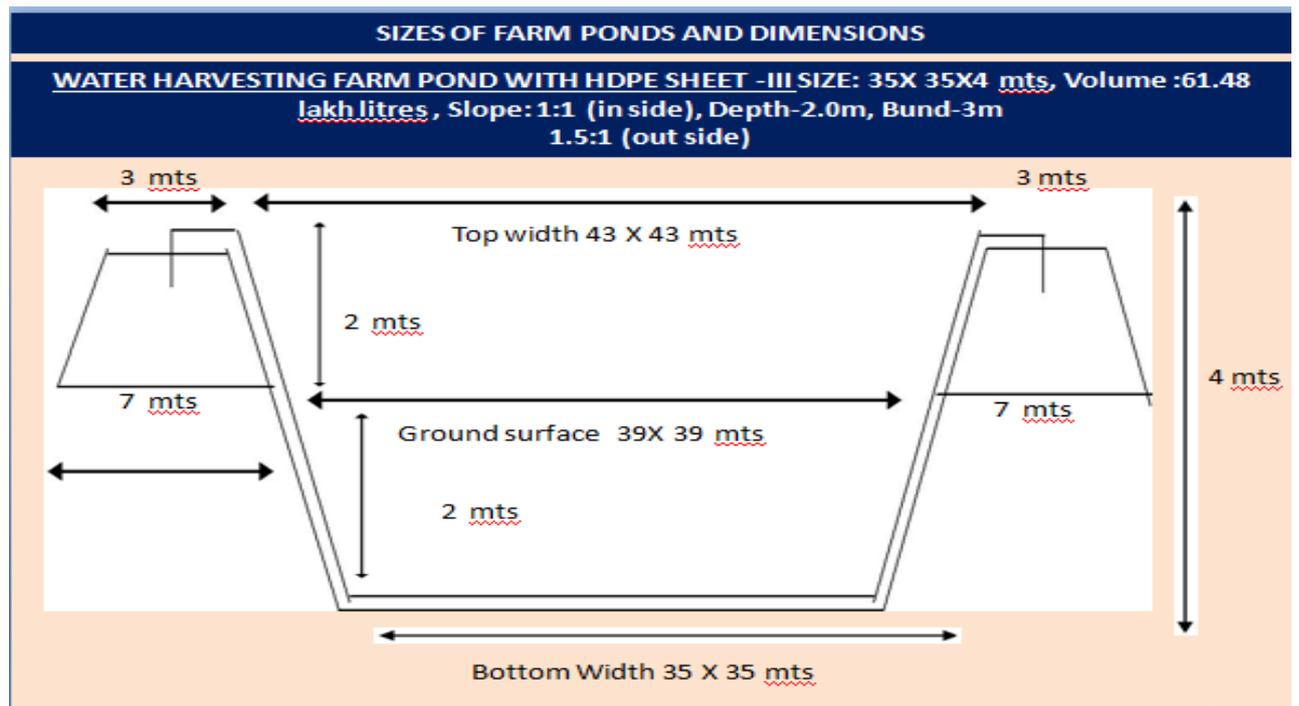
$$\begin{aligned} & \frac{27 \times 27 + 31 \times 31}{2} \times 2 \\ &= \frac{729 + 961}{2} \times 2 \\ &= \frac{1690}{2} \times 2 \\ &= 1690 \text{ m}^3 \end{aligned}$$

IV. Filling of Earth in Bund formation

$$\begin{aligned} &= \frac{5 + 2}{2} \times 2 \\ &= 7 \times 945 \\ &= 6615 \text{ m}^3 \end{aligned}$$

- The fencing & Display Board at farm pond is mandatory.
- The cost towards fencing and preparation of Display Board and any other additional cost is to be borne by the beneficiary.

7) 35X35X4m



1. Bottom width 35 X 35 m
2. Width at ground level 39 X 39 m
3. Top width 43 X 43 m
4. Bund above Ground level 2m
5. Depth below Ground level 2m
6. Bund width at top 3m
7. Slope inside 1:1
8. Slope out side 1.5: 1
9. Volume = 61,48,000 liters

Calculation:

I. Subsidy of Farm Pond:

Top Area + Bottom Area X Total Depth of the pond

$$\begin{aligned}
 &= \frac{43 \times 43 + 35 \times 35}{2} \times 4 \\
 &= \frac{1849 + 1225}{2} \times 4 \\
 &= 6148 \text{ m}^3
 \end{aligned}$$

- One cubic meter = 1000 liters of water
- Hence, the total volume of the farm pond is 6148 X 1000 = 61,48,000 litres
- Subsidy per one cubic meter = Rs. 62.50/- (as per GoI)
- Hence, the total subsidy is Rs.3,84,250/- (as per GoI)

II. Requirement of Geo-membrane sheet

Bottom width + 2 X Side slope length + 2 X side anchoring

$$\begin{aligned} &= 35 + 2 \times \sqrt{4^2 + 4^2} + 2 \times 2.5 \\ &= 35 + 2 \times \sqrt{4^2 + 4^2} + 5 \\ &= 40 + 2 \times \sqrt{2 \times 4^2} \\ &= 40 + 2 \times 4\sqrt{2} \\ &= 40 + 8 \times 1.414 \\ &= 40 + 11.312 \\ &= 51.312 \\ &= 51 \\ &= 51 \times 51 \text{ (02 sides)} \\ &= 2601 \text{ m}^2 \end{aligned}$$

III. Estimated quantity / Volume for Excavation of Farm Pond

$$\begin{aligned} &\frac{\text{Bottom Area} + \text{Ground surface Area}}{2} \times \text{Depth below the Ground} \\ &= \frac{35 \times 35 + 39 \times 39}{2} \times 2 \\ &= \frac{1225 + 1521}{2} \times 2 \\ &= \frac{2746 \times 2}{2} \\ &= 2746 \text{ m}^3 \end{aligned}$$

IV. Filling of Earth in Bund formation

$$\begin{aligned} &= \frac{7 + 2}{2} \times 2 \\ &= 9 \times 1505 \\ &= 13545 \text{ m}^3 \end{aligned}$$

- The fencing & Display Board at farm pond is mandatory.
- The cost towards fencing and preparation of Display Board and any other additional cost is to be borne by the beneficiary.

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 inner 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 smoothed 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 300/500 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.

Procedure to be followed for executing of Farm Ponds for the year 2018-19:

1. Farmers are to be sensitized and motivated by CLHSOs/DHSOs 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.
2. Beneficiaries are to be identified in Grama sabhas and list has to be approved in Grama sabha.
3. Preference shall be given to small and marginal farmers SC and ST ratios shall be followed scrupulously.
- 4. A silt trap should be provided at the entrance of the pond.**
- 5. The sheet should not be folded while laying.**
- 6. The Geo Membrane sheet with 500 microns is more effective rather than 300 microns.**
7. The District Officer should collect the non-subsidy portion towards Geo-membrane in the form of Demand draft in favour of District Officer from the concerned farmer in case the farmer selected empanelled firm in such cases the subsidy will be released to concerned firm.
8. District Officer should obtain DMC approval for the list of feasible beneficiaries identified for farm ponds.
9. After obtaining DMC approval, the DHSO shall issue work order to the empanelled Agency / farmer.
- 10. The farmers are given choice to choose firms either from empanelled/non empanelled to procure/purchase of Geo-membrane sheet but, the sheet should be as per specifications i.e., BIS-10889:2004/BIS-15351:2015 for 300 Microns/500 Microns and the same specification of the sheet laid in farm pond should be depicted & clearly visible in the photographs which is uploaded in HORTNET.**
- 11. The subsidy will only be released after fixing the fencing and name board at Farm Pond.**
12. MI Engineer will take the MB record and Check measurement will Be done by Horticulture Officer.
- 13. Super check by DHSOs (10% of Target randomly).**
14. After completion of execution of farm pond MI Engineer and concerned Horticulture office will issue the completion certificate along with photograph for record purpose at district level to the DHSO

15. DHSO will inspect the farm pond along with concerned HO and inspection report along with the DMC approval will be sent to the SHM Office by recommending for release of subsidy to the beneficiary.
16. The DHSO shall send the original bills, photographs and a copy of DMC approval to the Head Office for release of subsidy to the beneficiary through online. They should send atleast **03 photographs** for each farm pond. **Fencing, display board and BIS/ISI mark should be depicted in photographs.**
17. The fencing should be done by the farmer with his own cost.
18. A Display board (Iron) of size 2'x2' ft containing the following information in Telugu should be placed near the farm pond.

Department of Horticulture

Mission for Integrated development of Horticulture (MIDH)

Name of farmer:

Extent of land & crop:

Size of pond :

Capacity of pond (litres):

Total expenditure: Rs.

Subsidy amount: Rs.

Non subsidy amount: Rs.

Year of sanction:



JOINT INSPECTION REPORT – MIDH 2018-19

Creation of Water resources – Farm Ponds

1. Name of the farmer :
2. Father Name :
3. District :
4. Mandal :
5. Village :
6. Name of the Crop & Age :
7. Survey No :
8. Size of the Pond for which farmer applied :
9. Size of the Pond for which admin sanction issued:
10. Date of Inspection :
11. Actual size of the Farm Pond :
 - a. Bottom Width (metre) :
 - b. Width at ground level (metre) :
 - c. Top width (metre) :
 - d. Depth of the pond (metre) :
12. Details of Geo-Membrane
 - a. Thickness :
 - b. Manufacturers :
 - c. Whether the film is as per BIS/ISI Standards : Yes / No
 - d. BIS/ ISI mark :
13. Actual Expenditure :
14. Eligible subsidy :
15. Subsidy recommend by JIT :
16. Remarks of the Joint Inspection Team:

CLHSO

MIE

DHSO

VI. PROTECTED CULTIVATION (PRECISION FARMING)

1. POLY HOUSES

Objectives:

- ❖ Enhancing productivity.
- ❖ Promotion of high value Horticulture crops under poly 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.

Pattern of Assistance:

S. No	Item	Max permissible Cost	Pattern of Assistance
1	Naturally Ventilated Poly house	Rs.844 per sqm(>2080sqm to 4000sqm)	50% of the unit cost i.e., Rs.422.00 per sqm(maximum 4000 sqm)
2	Plant material under Poly houses		50% of the unit cost i.e., Rs. 135 per sqm(maximum 4000 sqm)
	a. Carnation / Gerbera	Rs.270/- per sqm	
	b. Roses	Rs.157/- per sqm	50% of the unit cost i.e., Rs. 78.75 per sqm(maximum 4000 sqm)
	c. Vegetables	Rs.140/- per sqm	50% of the unit cost i.e., Rs. 70 per sqm(maximum 4000 sqm)
3	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.

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.

I. 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 DHSO 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. DHSO will issue administrative sanction letter after approval from **SLEC**.
6. In case of finance by Bank, the DHSO 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 DHSO for the sanction of project. The date of receiving of appraisal report in DHSO 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.

II . 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 Pattadar 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 avail 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.

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

V. 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.
- 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 MIDH).
- 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 Houses, flowers, vegetables, medicinal and aromatic plants, spices etc. should be considered for cultivation.
- The proposals for construction of Poly House may also be implemented in project mode with credit link back ended subsidy.
- Documentation with photo graphs to be done at various stages of erection of Poly 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.

VI. 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.

VII. 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.

VIII. Inspection: There shall be Three inspections.

- a. **First Inspection:** First Inspection shall be conducted by Joint Inspection Team (JIT) from DHQ(District Head Quarters), HO &

DHSO 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 DHSO 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 DHSO of the District after completion of structure in all respects. The team consist of DHSO, 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.

IX. Insurance of Poly house: The insurance of Poly house is mandatory and is the responsibility of farmer.

X. 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 DHSO by intimating the possession of structure and submission of training certificate and sowing of crop.

XI. 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 /PLANT MATERIAL FOR FLOWERS OR
VEGETABLES**

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 _____

DHSO

Enclosures:

1. Pattadar Pass Book/Orginal 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

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 MIDH.

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 / / 2018, Dt. 2018.

Sub:- Horticulture Dept- District – State Cell – 2018-19 –
Construction of Poly Houses under Protected Cultivation –
Administrative Sanction Orders - Issued.

Ref: 1. Annual Action Plan 2018-19.

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

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

4. SLEC approval.

&&&

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 -2018-19 and the same has been approved by SLEC
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 -2018-19 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 of the Poly house. The mentioned below.



display the board and place in front of the Poly house. The Logo of MIDH 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 DHSO
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 DHSO along with the Joint Inspection team certificate.
8. Subsidy will be released through online transfer to the beneficiary through the DHSO, after joint inspection by the committee members.

(APPROVED BY THE DISTRICT COLLECTOR,DISTRICT)

DHSO
..... DISTRICT.

To
Sri..... S/o., (V),, (M)
..... DISTRICT
Copy to Horticulture Officer,..... DISTRICT

Format - IV

Dt:2017

To
DHSO
..... 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:-

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

1. DHSO
2. Horticulture Officer (Concerned)
3. MI Engineer.
4. 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, DHSO shall give reasons for not attending the joint inspection.

Format – V

FORMAT TO CONDUCT FINAL AND JOINT INSPECTION OF POLY HOUSE BY THE COMMITTEE UNDER PROTECTED CULTIVATION COMPONENT OF MIDH THROUGH STATE HORTICULTURE MISSION OF TELANGANA STATE										
Name of the Component : POLY HOUSE										
Sl. No.	Name of the Farmer & Address	Cate gory	Village	Mandal	Survey No.	Area in Sq.mtrs.	Crop	Expenditure incurred by the farmer (Rs.)	Subsidy recommended by the committee (Rs.)	Re marks
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.

Certificates:

- 1) This is to certify that the above farmer has installed Poly 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

DHSO

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 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 4000 sq.mtr per beneficiary
		Gerbera	Rs. 270/-	50% of cost limited to 4000 sq.mtr per beneficiary
		Carnation	Rs. 270/-	

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/DHSO 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	For Gerbera & Carnation Rs.270/- Sq.Mt
4	Plant protection chemicals	31500	50000	55000	50000	
5	Pruning Harvesting	20000	40000	40000	40000	for Orchid & Anthurium Rs. 700/- sq.mtr (as per MIDH guidelines)
6	Intercultural operations	15000	40000	40000	40000	
	Total	213000	305000	305000	350000	

The HO & DHSO 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

DHSO

2. PLASTIC 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.
3. The farmers are suggested to use different colours of mulching sheet i.e., Black & White (summer season) Black & Silver (Kharif and Rabi Season).
4. Mulching is mandatory to the farmers who avail subsidy under Drip irrigation.
5. The farm waste may be utilized as mulching in farmers fields.
6. To remove the mulch sheet the farmers should wet the Soil before ploughing the mulching sheet after completion of the cropping.
7. Burning of mulching sheet should be avoided and it should be disposed for recycling.

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).

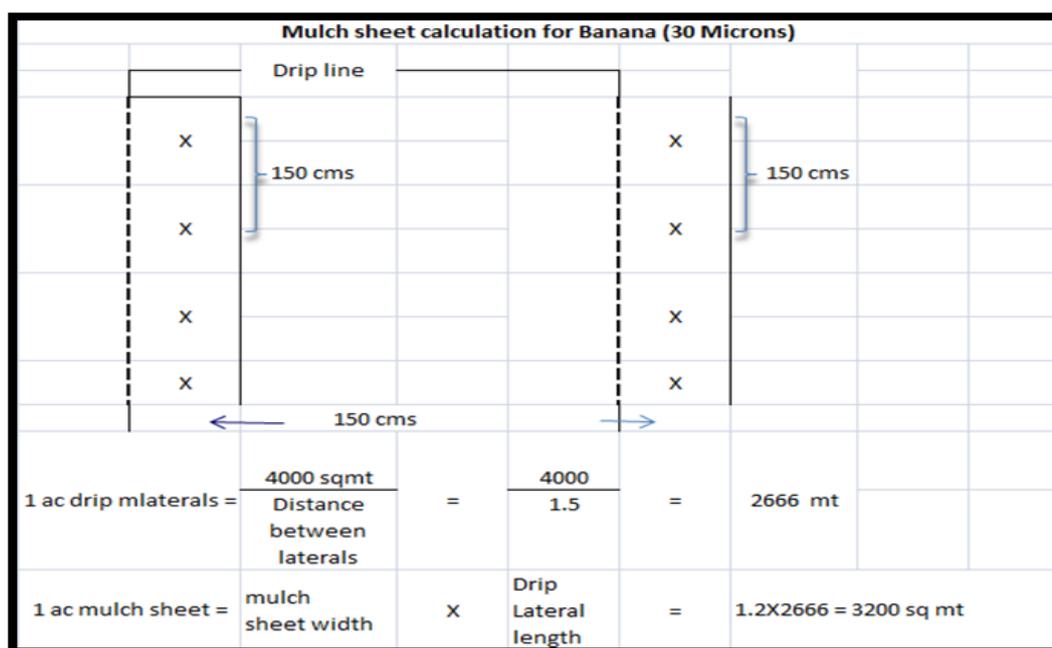
Calculation of Mulch Film Requirement (Approximately):

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 Tomato, Brinjal, Capsicum (25 Microns)					
		Drip line			
X	X	45 / 60 cms		X	X
X	X			X	X
X	X		90 cms	X	X
X	X			X	X
	90 cms		180 cms		90 cms
1 ac drip mlaterals =	4000 sqmt	=	4000	=	2222 mt
	Distance between laterals		1.8		
1 ac mulch sheet =	mulch sheet width	X	Drip Lateral length	=	1.2X2222 = 2666 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.**
- Farmer's once availed subsidy under this component is not eligible for the 2nd time.
- 3. The subsidy is 50% of the permissible unit cost (limited to Rs. 16,000 / ha) with maximum limit of 2 Ha / Beneficiary.**
- 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.
- A display board depicting " department of Horticulture" is mandatory.
- Only Horticulture crops are eligible for assistance.
- DMC approval to be obtained for indentified beneficiaries and for final release of assistance.
- 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.
- Documentation with photographs after laying out of mulch sheet.
- 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/DHSO 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	Inspection report of Concerned Horticulture Officer	

Inspection Report

Date of Inspection:

- | | |
|---|-----------------------|
| 1. Name of the Farmer: | 2. Father Name: |
| 3. District: | 4. Mandal: |
| 5. Village: | 6. Survey No: |
| 7. Crop: | 8. Total Extent (Ha): |
| 9. Extent (Ha.) applied for Mulching: | |
| 10. Extent (Ha.) for which Admin Sanction issued: | |
| 11. Extent (Ha.) for which mulching done: | |
| 12. Actual Expenditure (Rs.) : | |
| 13. Recommended Subsidy (Rs.) : | |
| 14. Detailed remarks of Horticulture Officer: | |

HEO

HO

VI. 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	Sowing, planting, reaping and digging equipments	Power saws	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
3	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

All the DHSOs/ 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 2018.

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 approved 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 DHSOs for online transfer of amounts of non-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/ DHSO 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 DHSO will scrutinize it.
8. The identified farmers should pay the non subsidy amount in shape of DD drawn in favour concerned DHSO.
9. The concerned DHSO 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 DHSO office only.
12. The DHSOs 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, DHSO 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 approved firms / authorized through online transfer by the Head office.
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 2018, duly following the norms & guidelines without any deviation.

All District officers should send information in the annexure prescribed below for release of subsidy along with DMC approval.

RELEASE - ANNEXURE																				
S. No	Name of equipment	Unit	Assistance (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 Lakhs)	Gen	SF/MF	SCP	TSP	Total	Gen	SF/MF	SCP	TSP	Total	Gen	SF/MF	SCP	TSP	Total

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

DHSO

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	

VII. 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, & 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.

STEPS TO BE FOLLOWED IN GENERAL:

1) At the time of receiving the proposal from promoter at the DHSO 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 DHSO 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 DHSO 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 DHSO should forward the project proposals in 3 sets (Cold Storages / Ripening Chambers / Reefer Vans/ Integrated Pack Houses, etc.) along with the check list duly signed by the DHSO. 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 DHSO should verify these documents with originals and DHSO 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 DHSO along with bank disbursement statement to state cell for release of subsidy.
- 2) Periodical inspection at different stages of execution.
- 3) DHSO s have to give confirmation regarding the suggestions / remarks given by the technical consultant in techno economic viability report.
- 4) DHSO s 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) DHSO 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 DHSO 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 DHSO 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 / DHSO	
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 SLEC.	
	After the project is approved in SLEC of State cell & MIDH and Administrative sanction order shall be issued.	
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 DHSO	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.	DHSO 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 DHSO 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. (max 300 MTs per beneficiaiy)	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	Pack Houses / Pre-fabricated Houses	Rs.4.00 lakhs	Rs. 2.00 Lakhs
6	Solar Cold Rooms	Rs. 15.00 lakhs per unit (5MTs)	35% of the total cost i.e., Rs. 5.25 lakh/unit

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 DHSO 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 DHSO shall see that data logger / PLCs are installed by the promoter as mentioned in technical standards
- As the following documents are mandatory the DHSO 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 DHSO 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 DHSO 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 DHSOs 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.
- DHSO 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 DHSO concerned the State cell shall release 1st installment subsidy to the concerned bank of the promoter through HORTNET.
- **DHSO should ensure that promoters shall allow 20% of horticulture produce of the concerned district farmers.**
- After completion of the project and energy audit, the DHSO 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 DHSO shall conduct Joint Inspection with the following committee members:
 1. Director of Horticulture / Sr. Officer from Head Office.
 2. TSG Member / Scientist from DATT centre.
 3. Dy. Director of Horticulture (Concerned)
 4. Assistant Director of Horticulture concerned.
 5. Horticulture officer concerned.
 6. Banker
 7. Promoter
 8. Representative from NABCONS.

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.

DHSO 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

Pattern of Assistance:

Sl. No.	Component	Unit cost	Pattern of Assistance
1	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.

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.

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.

INDEX for Checklist & Formats for Cold Storages

Sl.No	Item	Annexure/ Format Number
1	Check List For Projects For Cold Storage & Ripening Chamber	Annexure-I
2	APPLICATION FORMAT for Cold Storage / Ripening Chamber	Format - I
3	SYNOPSIS	Format – I (b) (CS/RC)
4	AFFIDAVIT (Rs. 100/- Stamp Paper)	Format – II (CS/RC)
5	Declaration by Engineer	Format – III (CS/RC)
6	Preliminary (Inspection Report) while submitting project to State MIDH Cell.	Format – IV (A) (CS)
7	PRELIMINARY REPORT (Release of First Installment)	Format – IV (B) (CS)
8	Component wise releases made by the Banker for cold storage	Format – V (A) (CS)
9	Format to conduct final and joint inspection by the committee for cold storage under Post Harvest Management component of MIDH, Telangana	Format – V (B) (CS)
10	Subsidy Calculation Sheet	Format – V (C) (CS)
11	Detailed Report on Cold Storage at the time of final and Joint Inspection	FORMAT- V - (D) (CS)
12	Basic Data Sheet	Format – VI

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

Sl. No.	DESCRIPTION	REMARKS
1	Application Form (Format – I) along with Synopsis in format – I (b) CS/RC	
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	
22	Original CA Certificate	
23	Original Insurance copy of the firm	

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, DSER, 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 District Horticulture & Sericulture
Officer_____.

DHSO

Note: Synopsis to be enclosed in format no. I(b)

PROPOSALS FOR ESTABLISHMENT OF COLD STORAGEES

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 @
35% of the capital cost i.e., Rs. Lakhs/Unit.

Signature of the Promoter

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 BY ENGINEER

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 DHSO 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 ____ 2018 in the presence of the following witnesses;

WITNESSES:

1.

(Sign of the Consultant)

With civil stamp

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

Date of Inspection:

- A Component :
- B **Details of Project** :
- (iii) Name of the project :
- (iv) 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 :
- (v) Land development status/boundary/road :
- (vi) Connecting road to the plot :
- (vii) Stage of cold store building civil/pre engineered as on inspection date :
- (viii) Type of produce to be stored

Promoter

HO

DHSO (Concerned)

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 in to the
subsidy reserve fund account bearing no:-----, IFSC Code:----- Bank:-----
---, Branch:----- as the unit has constructed.

Promotor

HO

DHSO(Concerned)

COMPONENT WISE RELEASES MADE BY THE BANKER FOR COLD STORAGE

Name of the Firm :

District :

Place :

Subsidy 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 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:					

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

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

Certificates:

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

8. An amount of Rs. _____ may be released in to the subsidy reserve fund account bearing no:-----, IFSC Code:----- Bank:-----, Branch:----- -- towards 2nd& final installment.

Promoter HO TSG Member/ Local Scientist from DATT Centre

Banker Member from NABCONS DHSO(Concerned)

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 in to the subsidy reserve fund account bearing no:-----, IFSC Code:----- Bank:-----, Branch:-----
-- towards 2nd and final installment.

Promoter HO TSG Member/ Local Scientist from DATT Centre

Banker Member from NABCONS DHSO(Concerned)

**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.		

BASIC DATA SHEET FOR COLD STORAGEES

Format – VI

A. Identification

Name of Cold Storage			
Location of Cold Storage	Area / Village	Town	
	District	State	
Name of Promoter Company / Owner			
Type of company (Proprietorship / Partnership / Pvt. Ltd / Ltd)			
Postal address of Promoter			
	Tel / Fax	Mob. No	E-mail
Present activity in brief			
Name of CEO / MD			
Name of Manager / Contact Person		Phone / Mobile No	

B. Basic Cold Store Design Considerations

i) Commodity Storage Requirements

Type of Commodities/Produce		
Ideal / Recommended Storage Conditions – Temperature (DB in °C) – Humidity RH (%) Range – Air Circulation (CMH/MT of Produce) – Ventilation (Air Changes/Day) – CO ₂ Range (PPM) Produce Cooling Rate (°C/day) Freezing Point °C – Others		
Cold Chamber Dry bulb (DB in °C)		
Cold Chamber RH (%)		
Max Storage period (months)		
Max product temp (°C) – at the time of loading		
Daily loading rate (MT/day) – in each cold chamber		
Loading Period (months)		
Pull down rate (°C / day)		
Unloading Period (months)		
Daily unloading rate (MT/day) – from each cold chamber		
Ante Room Conditions (T °C & RH %)		
Sorting & Grading Area (T °C & RH %)		
Special Provisions CIPC treatment for Process Potatoes		
Special Provisions – MA / Ethylene Control / Fumigation/ Fresh Air etc		

ii) Fresh Air / Ventilation System

Brief Description of CO ₂ Extraction / Ventilation System	
CO ₂ Concentration Control Range (PPM)	
Monitoring & Control Instrument – Type – Accuracy	
Ventilation Capacity (Max Air Changes/Day)	
Design Considerations for Energy Recovery and Preventing Wetting of Produce	

iii) Cold Store Chamber Sizing and Capacity

No. of chambers:

Type : Mezzanine/ Palletized

Max Height of Building

Details	CSC 1	CSC 2	CSC 3	CSC 4
Total Capacity of Each Cold Store Chamber (MT)				
Internal Chamber Dimensions L x B x H (m)				
No. of mezzanine floors X Height (m) per floor				
Size &Weight of Bags or Boxes being stored				
Total number of Bags/Boxes stored in each Cold Store Chamber				

iv) Ante Room & Process Areas

Details	Length (m)	Width (m)	Height (m)
Ante Room			
Sorting & Grading Area			
Loading / Unloading dock			

v) Machine Room & Utility Areas

Details	Length (m)	Width (m)	Height (m)
Machine Room			
Office Area			
Toilets & Changing rooms			
Any other			

vi) Building & Construction Details

Type of construction: Civil/ Pre-engineered Building

Type of External walls of cold chambers	
Type of Internal / Partition walls	
Type of Roof / Ceiling	
Type of Internal structure / Racks	
Type of mezzanine grating	
Types of Lighting fixtures in cold Chambers	
Types of Lighting fixtures in Process & Other Areas	

ii) Insulation and Vapor Barrier

Type of Insulation: Insulating Sheets / Metal Skin Composite panels

Type of Insulation	Wall		Ceiling / Roof	Floor
	External	Internal		
Type of material EPS / Metal Skin PUF Composite Panels / XPS/ PUR, Others				
Relevant IS Code				
Density (kg/m ³)				
Thermal Conductivity at +10°C k value (W/m.K)				
Thermal diffusivity m ² /h				

Water vapour transmission rate, ng/Pa.sm, Max.				
Water absorption after 24h immersion, percentage by mass.				
Relevant IS Code of Practice for Thermal Insulation of Cold Store				
Total Insulation Thickness (mm)				
No. of layers & Thickness / layer (mm)				
Type of vapor barrier & thickness (microns)				
Type of Bituminous/Sticking Compound				
Type of Cladding / Covering/External Finish				
Locking/Fixing & Sealing System in case of Metal Skin Composite Panels				
Any other info				

viii) Cold Store Doors & Air Curtains

Type of Insulation	Details
No. of Insulated doors	
Type hinged / sliding	
Insulation Material EPS / PUF / Others	
Thickness of Insulation (mm)	
Type of cladding	
Size of door opening	
Provision of Strip curtains – nos. & overlap %	
Air curtains, if any	
Others	

ix) Material Handling

Proposed Practice: Manual / Semi Automated /Automated

Procedure	Brief Description
Material Handling Procedures & Equipments	
Cap of Electric Elevator Rating of motor (kW)	
Any other device	

x) Grading, Sorting Washing & Packing Line (optional)

Proposed Practice: Manual / Semi Automated /Automated

Procedure	Brief Description
Process Line	
Total Connected Load (kW)	

Please attach a Plan & Layout of the proposed Cold Store unit in accordance to the Statutory Building By-Laws and BIS Building Codes & Standards duly approved by a Registered Architect and Structural Engineer. The drawings should detail out insulation type, thickness and fixing methodology in sectional details.

C. Heat Load Calculation of Cooling System – Summary

Ambient Conditions	Summer	Monsoon	Winter
Dry Bulb Temperature (°C)			
Wet Bulb Temperature (°C)			

Refrigeration Load		During Loading (kW)	During Pull Down (kW)	During Holding (kW)
Transmission Load				
Product Load				
Internal Load	Lighting load			
	Occupancy load			

Infiltration Load			
Ventilation/ Fresh Air Load			
Equipment Load - Fan motors etc.			
Total Load (kW/24 hrs)			

Compressor Operation Hours/Day	Loading Period		
	Pull Down Period		
	Holding period		
Multipliers	Safety Factor		
	Defrost Period		
Total Refrigeration Load	Peak Period	Holding Period	Lean Period
Total Load (KW)			

Please attach detailed heat load calculation sheets of the proposed cold store unit in accordance to the prescribed Technical Standards and Guidelines duly approved by a Qualified Engineer.

Cooling System Design & Equipment Selection

Cooling System Configuration

Type of Refrigerant	Ammonia / Freon / Others
Type of System	Direct Exp / Gravity Feed / Overfeed
Type of compressor	Reciprocating / Screw / Scroll / Others
Type of capacity control	Automatic In steps / Step less
Type of condenser	Atmospheric / Evaporative / Shell & Tube / Plate Heat Exchanger / Other
Cooling Towers (if applicable)	FRP Induced Draft / Others
Type of cooling coil	Ceiling suspended / Floor Mounted / Others
Type of defrosting	Air / Water / Electric / Hot gas
Humidification System & Control (Brief Description)	

Compressor Detail

Compressor Make & Model	Nos.	Comp. RPM	Operating Parameters Evap. SST. / Cond. Temp (°C)	Refrigeration Capacity (KW)	Motor Rating. (KW)	Total Electric Power. (BkW)	Remarks Working /Standby

Condenser Details

Condenser Make & Model	Nos.	Operating Parameters Cond.Temp.(SDT) / in/out water temp(°C) &flow (lps)	Condenser Capacity (kW)	Electric Fan /Pump Motor Rating (kW)	Total Electric Power (BkW)	Remarks Working /Standby

Cooling Tower Details (if applicable)

Cooling Tower Make & Model	Nos.	Operating Parameters DB & WB Temp, in/out water temp(°C)	Cooling Tower Capacity(KW)	Fan & Pump Capacity (CMH/LPS) & Motor (kW)	Total Electric Power (BkW)	Remarks Working /Standby

Air Cooling Units (ACU)

ACU Make & Model	Nos.	Operating Parameters Evap. (SST) & TD* (°C)	Cooling Capacity (kW)	Air Flow (CMH) & Face Velocity (M/S)	Material of Coil Tubes & Fins	Fin pitch (mm)	Total Fan Electric Power (BKW)

(*) TD – Temperature difference between Evap. (SST) °C & Return Air (at coil inlet).

Please attach Detailed 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 (please note that the Air Cooling Unit data sheet should include heat transfer area, fin spacing, no. of rows, air flow, face velocity, fan static, air throw, Fan Motor BkW/KW, fin spacing, etc) duly Certified by the respective equipment manufacturers with reference to the Relevant Codes & Standards.

Electrical Instillation

Total Connected load (kW)	
Estimated power requirement at Peak Load Period (BkW)	
Estimated power requirement at Holding Load Period (BkW)	
Estimated power requirement at Lean Load Period (BkW)	
Capacity of Transformer (KVA) (proposed)	
Size of Capacitor for power factor correction & their operation	
Make & Capacity of standby D.G.Set (KVA)	

Safety Provisions

Details of Fire Fighting equipment	Dry	
	Water based	
Handling Refrigerants & Leaks	Leak Detection	
	Handling measures	
Safety devices – LP/HP cutouts, safety valves, shut off valves etc.		
Details of Emergency alarm system & push button system in cold chambers		
Emergency lighting in Cold chambers & other areas		
Lightening arrestors		
Any other safety provisions		

Codes & Standards Followed

Building Design & Structure	
Construction Materials	
Thermal Insulation & Application	
Refrigeration Equipment & Systems	
Electrical & Mechanical Systems	
Food Safety	
Others	

Energy Saving Equipment & Measures

Details of Energy Saving devices	Brief Description and Savings
Light Fixtures CFL/LED	
Natural Lighting for general areas	
VFD for fans / compressors	
Refrigerant Controls and Automation	
Air Purger	
Power Factor Controller	
Energy recovery heat-exchanger for Ventilation System	
Renewable/ Solar Energy e.g. PV lighting	
PLC Control, & Data Acquisition	
Any other features e.g. water recycling, rain water harvesting	

Operation & Maintenance

Description	Nos. / Details
Proposed staff for Operation & Maintenance	
Proposed Annual Maintenance Contracts (if any)	
Training & Preventive Maintenance procedures	
Sanitation & Hygiene practice	
Pollution Control	

Estimated Performance Parameters of Proposed Cold Store

Parameters	Peak Period	Holding Period	Lean Period
Coefficient Of Performance (COP) Of the Cold Store Unit			
Power Consumption (KWH/Day)			
Total Electricity Cost (Rs/Day)			
Electricity Cost towards Storage (Rs/ MT /Day)			

Other Information

Place

Date

Signature and

Name of Applicant with seal

B. RIPENING CHAMBERS/ UNITS

Pattern of Assistance:

Sl. No.	Component	Unit cost	Pattern of Assistance
1	Ripening chamber	Rs. 1.00 lakh/MT. (max 300 MTs per beneficiary)	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.

Background Facts

It is also noticed that ripening chambers which are being set up under various schemes of horticulture development, do not possess 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 standards 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 AS ME /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.

INDEX for Checklist & Formats for Ripening Chambers

Sl. No	Item	Annexure/ Format Number
1	Check List For Projects For Cold Storage & Ripening Chamber	Annexure-I
2	APPLICATION FORMAT for Cold Storage / Ripening Chamber	Format - I
3	SYNOPSIS	Format – I (b) (CS/RC)
4	AFFIDAVIT (Rs. 100/- Stamp Paper)	Format – II (CS/RC)
5	Declaration by Engineer	Format – III (CS/RC)
6	Preliminary (Inspection Report) while submitting project to State MIDH Cell.	Format – IV (A) (RC)
7	PRELIMINARY REPORT (Release of First Installment)	Format – IV (B) (RC)
8	Format to conduct final and joint inspection by the committee for Ripening Chamber under Post Harvest Management component of MIDH, Telangana	Format – V (A) (RC)
9	Ripening Chamber	Format – V (B) (RC)
10	Subsidy Calculation Sheet	Format – V (C) (RC)
11	Detailed Report on Ripening Chamber at the time of final and Joint Inspection	FORMAT- V - (D) (RC)
12	Basic Data Sheet	Format – VI

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

Sl. No.	DESCRIPTION	REMARKS
1	Application Form (Format – I) along with Synopsis in format – I (b) CS/RC	
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	
22	CA original certificate	
23	Original Insurance copy of the Firm	

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 along with 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, DSER, 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 Director of Horticulture & Sericulture Officer

_____.

DHSO

Note: Synopsis to be enclosed in format no. I(b)

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 @
35% of capital cost i.e., Rs. Lakhs/Unit.

Signature of the Promoter

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 BY ENGINEER

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 DHSO 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 ____ 2018 in the presence of the following witnesses;

WITNESSES:

1.

(Sign of the Consultant)

With Seal

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

DHSO

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.

Promoter

HO

DHSO

**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

DHSO

TSG (Member) / Local Scientist from DATT

Sr. Officer

Member from NABCONS

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 HO TSG Member/ Local Scientist from DATT Centre

Banker Member from NABCONS DHSO

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.									

Promoter HO TSG Member/ Local Scientist from DATT Centre

Banker Member from NABCONS DHSO

Detailed Report on Ripening Chamber at the time of final and Joint Inspection

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

- Phone Nos. :
- 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 :
- 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) :
- Refrigeration unit :
- Company :
- Code :
- Capacity :
- 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 :

➤ Floor insulation details (dimensions):

➤ Compressor : _____ HP

➤ Condenser motor : _____ HP, _____ RPM,
_____ Nos

➤ 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 :

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

➤ Ethylene generator : cost , Nos:

➤ Bills (certified)

Refrigeration unit :

Puf Panels :

Control devices (temp, RH etc.) :

Humidifier :

Ethylene generator :

➤ No. of crates / chamber :

Dimensions of the crates (ft) :

Weight of bananas per crate :

➤ 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 HO TSG Member/ Local Scientist from DATT Centre

Banker Member from NABCONS DHSO

BASIC DATA SHEET

Format – VI

A. Identification

Name of Cold Storage			
Location of Cold Storage	Area / Village	Town	
	District	State	
Name of Promoter Company / Owner			
Type of company (Proprietorship / Partnership / Pvt. Ltd / Ltd)			
Postal address of Promoter			
	Tel / Fax	Mob. No	E-mail
Present activity in brief			
Name of CEO / MD			
Name of Manager / Contact Person		Phone / Mobile No	

B. Basic Cold Store Design Considerations

i) Commodity Storage Requirements

Type of Commodities/Produce		
Ideal / Recommended Storage Conditions – Temperature (DB in °C) – Humidity RH (%) Range – Air Circulation (CMH/MT of Produce) – Ventilation (Air Changes/Day) – CO ₂ Range (PPM) Produce Cooling Rate (°C/day) Freezing Point °C – Others		
Cold Chamber Dry bulb (DB in °C)		
Cold Chamber RH (%)		
Max Storage period (months)		
Max product temp (°C) – at the time of loading		
Daily loading rate (MT/day) – in each cold chamber		
Loading Period (months)		
Pull down rate (°C / day)		
Unloading Period (months)		
Daily unloading rate (MT/day) – from each cold chamber		
Ante Room Conditions (T °C & RH %)		
Sorting & Grading Area (T °C & RH %)		
Special Provisions CIPC treatment for Process Potatoes		
Special Provisions – MA / Ethylene Control / Fumigation/ Fresh Air etc		

ii) Fresh Air / Ventilation System

Brief Description of CO ₂ Extraction / Ventilation System	
CO ₂ Concentration Control Range (PPM)	
Monitoring & Control Instrument – Type – Accuracy	
Ventilation Capacity (Max Air Changes/Day)	
Design Considerations for Energy Recovery and Preventing Wetting of Produce	

iii) Cold Store Chamber Sizing and Capacity

No. of chambers:

Type : Mezzanine/ Palletized

Max Height of Building

Details	CSC 1	CSC 2	CSC 3	CSC 4
Total Capacity of Each Cold Store Chamber (MT)				
Internal Chamber Dimensions L x B x H (m)				
No. of mezzanine floors X Height (m) per floor				
Size & Weight of Bags or Boxes being stored				
Total number of Bags/Boxes stored in each Cold Store Chamber				

iv) Ante Room & Process Areas

Details	Length (m)	Width (m)	Height (m)
Ante Room			
Sorting & Grading Area			
Loading / Unloading dock			

v) Machine Room & Utility Areas

Details	Length (m)	Width (m)	Height (m)
Machine Room			
Office Area			
Toilets & Changing rooms			
Any other			

vi) Building & Construction Details

Type of construction: Civil/ Pre-engineered Building

Type of External walls of cold chambers	
Type of Internal / Partition walls	
Type of Roof / Ceiling	
Type of Internal structure / Racks	
Type of mezzanine grating	
Types of Lighting fixtures in cold Chambers	
Types of Lighting fixtures in Process & Other Areas	

ii) Insulation and Vapor Barrier

Type of Insulation: Insulating Sheets / Metal Skin Composite panels

Type of Insulation	Wall		Ceiling / Roof	Floor
	External	Internal		
Type of material EPS / Metal Skin PUF Composite Panels / XPS/ PUR, Others				
Relevant IS Code				
Density (kg/m ³)				
Thermal Conductivity at +10°C				

k value (W/m.K)				
Thermal diffusivity m ² /h				
Water vapour transmission rate, ng/Pa.sm, Max.				
Water absorption after 24h immersion, percentage by mass.				
Relevant IS Code of Practice for Thermal Insulation of Cold Store				
Total Insulation Thickness (mm)				
No. of layers & Thickness / layer (mm)				
Type of vapor barrier & thickness (microns)				
Type of Bituminous/Sticking Compound				
Type of Cladding / Covering/External Finish				
Locking/Fixing & Sealing System in case of Metal Skin Composite Panels				
Any other info				

viii) Cold Store Doors & Air Curtains

Type of Insulation	Details
No. of Insulated doors	
Type hinged / sliding	
Insulation Material EPS / PUF / Others	
Thickness of Insulation (mm)	
Type of cladding	
Size of door opening	
Provision of Strip curtains – nos. & overlap %	
Air curtains, if any	
Others	

ix) Material Handling

Proposed Practice: Manual / Semi Automated /Automated

Procedure	Brief Description
Material Handling Procedures & Equipments	
Cap of Electric Elevator Rating of motor (kW)	
Any other device	

x) Grading, Sorting Washing & Packing Line (optional)

Proposed Practice: Manual / Semi Automated /Automated

Procedure	Brief Description
Process Line	
Total Connected Load (kW)	

Please attach a Plan & Layout of the proposed Cold Store unit in accordance to the Statutory Building By-Laws and BIS Building Codes & Standards duly approved by a Registered Architect and Structural Engineer. The drawings should detail out insulation type, thickness and fixing methodology in sectional details.

C. Heat Load Calculation of Cooling System – Summary

Ambient Conditions	Summer	Monsoon	Winter
Dry Bulb Temperature (°C)			
Wet Bulb Temperature (°C)			

Refrigeration Load		During Loading (kW)	During Pull Down (kW)	During Holding (kW)
Transmission Load				
Product Load				
Internal Load	Lighting load			
	Occupancy load			

Infiltration Load			
Ventilation/ Fresh Air Load			
Equipment Load - Fan motors etc.			
Total Load (kW/24 hrs)			

Compressor Operation Hours/Day	Loading Period		
	Pull Down Period		
	Holding period		
Multipliers	Safety Factor		
	Defrost Period		
Total Refrigeration Load	Peak Period	Holding Period	Lean Period
Total Load (KW)			

Please attach detailed heat load calculation sheets of the proposed cold store unit in accordance to the prescribed Technical Standards and Guidelines duly approved by a Qualified Engineer.

Cooling System Design & Equipment Selection

Cooling System Configuration

Type of Refrigerant	Ammonia / Freon / Others
Type of System	Direct Exp / Gravity Feed / Overfeed
Type of compressor	Reciprocating / Screw / Scroll / Others
Type of capacity control	Automatic In steps / Step less
Type of condenser	Atmospheric / Evaporative / Shell & Tube / Plate Heat Exchanger / Other
Cooling Towers (if applicable)	FRP Induced Draft / Others
Type of cooling coil	Ceiling suspended / Floor Mounted / Others
Type of defrosting	Air / Water / Electric / Hot gas
Humidification System & Control (Brief Description)	

Compressor Detail

Compressor Make & Model	Nos.	Comp. RPM	Operating Parameters Evap. SST. / Cond. Temp (°C)	Refrigeration Capacity (KW)	Motor Rating. (KW)	Total Electric Power. (BkW)	Remarks Working /Standby

Condenser Details

Condenser Make & Model	Nos.	Operating Parameters Cond.Temp.(SDT) / in/out water temp(°C) &flow (lps)	Condenser Capacity (kW)	Electric Fan /Pump Motor Rating (kW)	Total Electric Power (BkW)	Remarks Working /Standby

Cooling Tower Details (if applicable)

Cooling Tower Make & Model	Nos.	Operating Parameters DB & WB Temp, in/out water temp(°C)	Cooling Tower Capacity(KW)	Fan & Pump Capacity (CMH/LPS) & Motor (kW)	Total Electric Power (BkW)	Remarks Working /Standby

Air Cooling Units (ACU)

ACU Make & Model	Nos.	Operating Parameters Evap. (SST) & TD* (°C)	Cooling Capacity (kW)	Air Flow (CMH) & Face Velocity (M/S)	Material of Coil Tubes & Fins	Fin pitch (mm)	Total Fan Electric Power (BKW)

(*) TD – Temperature difference between Evap. (SST) °C & Return Air (at coil inlet).

Please attach Detailed 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 (please note that the Air Cooling Unit data sheet should include heat transfer area, fin spacing, no. of rows, air flow, face velocity, fan static, air throw, Fan Motor BKW/KW, fin spacing, etc) duly Certified by the respective equipment manufacturers with reference to the Relevant Codes & Standards.

Electrical Instillation

Total Connected load (kW)	
Estimated power requirement at Peak Load Period (BkW)	
Estimated power requirement at Holding Load Period (BkW)	
Estimated power requirement at Lean Load Period (BkW)	
Capacity of Transformer (KVA) (proposed)	
Size of Capacitor for power factor correction & their operation	
Make & Capacity of standby D.G.Set (KVA)	

Safety Provisions

Details of Fire Fighting equipment	Dry	
	Water based	
Handling Refrigerants & Leaks	Leak Detection	
	Handling measures	
Safety devices – LP/HP cutouts, safety valves, shut off valves etc.		
Details of Emergency alarm system & push button system in cold chambers		
Emergency lighting in Cold chambers & other areas		
Lightening arrestors		
Any other safety provisions		

Codes & Standards Followed

Building Design & Structure	
Construction Materials	
Thermal Insulation & Application	
Refrigeration Equipment & Systems	
Electrical & Mechanical Systems	
Food Safety	
Others	

Energy Saving Equipment & Measures

Details of Energy Saving devices	Brief Description and Savings
Light Fixtures CFL/LED	
Natural Lighting for general areas	
VFD for fans / compressors	
Refrigerant Controls and Automation	
Air Purger	
Power Factor Controller	
Energy recovery heat-exchanger for Ventilation System	
Renewable/ Solar Energy e.g. PV lighting	
PLC Control, & Data Acquisition	
Any other features e.g. water recycling, rain water harvesting	

Operation & Maintenance

Description	Nos. / Details
Proposed staff for Operation & Maintenance	
Proposed Annual Maintenance Contracts (if any)	
Training & Preventive Maintenance procedures	
Sanitation & Hygiene practice	
Pollution Control	

Estimated Performance Parameters of Proposed Cold Store

Parameters	Peak Period	Holding Period	Lean Period
Coefficient Of Performance (COP) Of the Cold Store Unit			
Power Consumption (KWH/Day)			
Total Electricity Cost (Rs/Day)			
Electricity Cost towards Storage (Rs/ MT /Day)			

Other Information

Place

Date

Signature and

Name of Applicant with seal

C. Reefer Vans

Sl. No.	Component	Unit cost	Pattern of Assistance
1	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.

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. DHSO 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 DHSO 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 DHSO 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). DHSO 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 TSG Member/ Local Scientist from DATT Centre

Banker Member from NABCONS DHSO

COMPONENT WISE RELEASES MADE BY THE BANKER (REEFER VAN)

Name of the Firm :

District :

Place :

Subsidy 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 vehicle					
2.	Cost of the refrigeration unit & container					
3.	Cost of fabrication					
4.	Others					
	Total:					

Bank Manager /

**Representative (Field Officer)
With Seal**

D. (1) PACK HOUSES

Pattern of Assistance:

Sl. No.	Component	Unit cost	of Assistance
1	Pack Houses / Pre-fabricated Houses	Rs.4.00 lakhs	Rs. 2.00 Lakhs

In respect of the Joint inspection, the DHSO shall organize Joint inspection of the Pack House in presence of promoter duly constituting a committee with the following members with DMC approval:

- 1) DHSO
- 2) Horticulture Officer
- 3) Banker (in case of credit linked back ended subsidy)

The joint inspection report should be sent in format- I & II with all necessary certifications.

The DHSOs shall take up 100% random inspection of the established Pack Houses and also shall monitor the status of pack houses sanctioned.

The DHSOs are requested to scrutiny the project proposals of pack houses at their level and maintain the proposals for record purpose in their office and need not forward to State cell. They are requested to obtain the DMC approval and send copy of DMC approval duly attesting along with details in format and forward to this office for obtaining SLEC approval at State cell.

Technical Specifications for Pack House

Requirements and Costing for a small Pack House

Sl. No	Detail of structure	Specifications/Details	Qty	Units	Unit rate (Rs)	Total Cost (Rs)
A	Land	Near Metal road, near well, power pole etc	500	yds		Farmer's Own
B	Expenditure Item					
1	Civil Structure					
1.1	Site leveling etc and Wire fencing	Leveling land and to make it motor able inside the premises	500	yds	18	9000
1.2	30X20' Packing hall	30X20 ft with GI/Asbestos roof, Hard cement flooring, Windows doors of country wood.	600	sft	460	275000
2	Mechanical					
2.1	Packing /grading Table	4'X8' of GI or SS material, with 100mm side protection to stop roll off and with provision to drain water	1	Nos	20000	• 20000
2.2	Washing sheets	Of plastic of not less than 5' length and 2.6' ft width	2	Nos	3750	7500
2.3	Weighing Machine	To weigh upto 300 kgs with an accuracy of + or - 0.1 Kg with atleast 400X 600mm plat form	1	Nos	10000	10000
2.4	Crate Mover	To move crates of 6 nos at a time	1	Nos	2500	1500
3	Electrical					
3.1	Meter with connection	Single Phase or three phase connection including deposit	1	No	6500	6500
3.2	Electrical Wiring with fuses, switches, holders, bulbs, fans etc.		1	Set	17500	17500
3.3	Emergency lights		2	No	1000	2000
4	Water System					
4.1	Water tank with support	Plastic "Sintex" or equivalent or cement based located at height either outside or with separate support of at least 2000 litres capacity	1	Nos	12500	12500
4.2	Water piping	Running parallel to packing hall with at least three taps and flexible water pipe with shower arrangement of 50' length minimum.	100	Rft	25	2500

5	Other assets Small office table, three chairs, almairah, Wooden showels		1	LS	15000	15000
6	Pre Operative, Bank processing fee, documentation expenses for loan etc., Ceiling Fans & local maintenance.		1	LS	20000	20000
						40000

NOTE:

- i) Each Pack house should also be given crates under other schemes to use within pack house as a rule
- ii) Second packing, grading table is preferable
- iii) Inverter is preferable, as power cuts may prevail in villages
- iv) If any other scheme provides for Solar lights, they should be encouraged.

ESTIMATE FOR THE PROPOSED MODEL PACK HOUSE - SIZE - 30' X 20' = 600 SFTUNDER M.I.D.H.					
S.NO.	Description of work	Quantity	Rate	Per	Amount
1	Earth work excavation in all types of soils for walls and for columns footings as per drawing or as directed by the including dewatering shoring, sheeting, shuttering if necessary ail leads, lifts, delifts and back filling trenches with watering and tamping on either of stone masonry upto Ground level, spreading and levelling surplus earth as directed with in the premises etc., complete	20.6	210	Cum.	4326
2	Providing and laying in line and level in cement concrete (1:4:8) Proportion using 40mm guage hard granite well graded aggregate including dewatering, machine mixing, shuttering, vibrating, ramming curing, all leads, lifts, delifts, etc., complete.				
a)	Under foundations	2.26	3000	Cum.	6758
b)	Under flooring	4.29	3000	Cum.	12870
3	Providing and constructing CRS masonry with cement Mortar (1:6) Proportion in basement including curing, dewatering, lead, lift, delift etc., complete	17.18	2500	Cum.	42950
4	Earth filling in basement and/or plinth with soils of approved quality/borrowed with standard specifications in layers of 150 mm to 230 mm (6" to 9") including watering and tamping and thoroughly consolidating.	15.15	165	Cum.	2499.75

5	RCC WORK: Reinforced concrete work conforming to IS 456 in M20 Proportion using 6mm to 20mm gauge metal with steel centring or form work required including mild or tor steel reinforcement.	1.03	8678	Cum.	8938.34
6	Providing and constructing Super structure in 230mm (9") thick wall in cement mortar (1:6) in line and level including watering, curing, lead, lift, delift, cost and conveyance of all materials to site, all incidental and operational charges etc., complete	19.9	4000	Cum.	79600
7	Providing and applying 20mm (3/4") thick cement plastering to walls in two coats out of which first coat of 16mm (5/8") thick shall be in cement mortar (1:5) Proportion and the second coat of 4mm (1/8") thickness in cement mortar (1:3) Proportion with sponge finish or fine finish as directed, in line and level including watering, curing, all leads, lifts, delifts, cost and conveyance of all materials to site, all incidental and operational all charges etc., complete.	190.24	165	Sqm	31389.6
8	Providing and applying raised and cut pointing over exposed surface of CRS masonry in cement mortar (1:1) including all cost of material, labour, lead, lift, etc., complete course.	18.58	130	Sqm	2415.4
9	Providing and laying cement flooring in cement mortar (1:3) with a floating coat of cement slurry and making squares of 2'X2' including all operational charges curing, lead, lift, etc., complete.	49	225	Sqm	11025
10	Supply and fixing of flush doors in M.S. box frame in 125 X 64mm thick fabricated in 1mm thick sheet with shutter of black board solid core 35mm thick, covered both the surfaces with commercial ply,duly painted two coats of enamel with luppum putty, with the following specifications etc.,including cost of c.c. bed blocks in (1:2:4) filling the inner portion of frame with cement mortar (1:8) etc., completer				
a)	M.S. box frame: 127mm X 64mm 12mm X 35mm rebate				
b)	Hold Fast: iron hold fasts, 6 Nosembeded in cement concrete (1:2:4)	2	5760	Nos	11520

c)	Hinges: 150mm X 40mm iron anodized butt hinges with nettle fold screws 3 Nos or as required				
d)	Shutter: 40mm thick black board of solid core of approved quality				
e)	Tower Bolts: aluminium				
	i) 200mm long -1 No				
	ii) 150mm long -1 No				
f)	Handle: aluminium				
	i) 150mm long - 2 Nos				
g)	Stoppers: double barrel				
h)	Aldrop: -1 No				
i)	Enamel painting two coats with wood primer and two coats of luppum finish of approved quality, colour and shade				
11	Supplying and fixing of Glazed M.S. Windows with 10mm square guard bars at 150mm c/c including hardware and 4mm glass	11.9	3500	Sqm	41650
12	Supplying fabricating and erecting in position M.S. tubular trusses in 2" dia "B" class pipe including providing and applying two coats of enamel paint with anti corrosive red oxide primer including all operational charges lead, lift etc., complete	0.75	75000	M.T	56250
13	Providing and laying asbestos sheets roof with charminar asbestos sheets with the required ridge piece including all operational charges lead, lift, etc., complete.	59.94	150	Sqm	8991
14	Providing and applying two coats of suryacem paint over the plastered surfaces including cleaning the floor etc., complete.	183.45	21	Sqm	3852.45
				Rs	325057.54 say 325000/-

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

Name of the farmer:

District:

Place:

Date of approved in SLEC :

As per project report					As per the inspection and actual investment				
Particulars	Specifications	Capacity	Qty.	Amount (Rs.)	Specifications	Capacity	Qty.	Amount (Rs.)	Remarks
Pack House	30 x 20 ft. with GI/Asbestos roof, Hard cement flooring, Windows, doors of country wood/ Iron Sheet. 6 windows and 2 no. of 6 feet double door.	600 sft.	1	275000					
Weighing Machine	406 x 660mm/ 300 Kgs capacity	300 kg	1	10000					
Meter with connection, Electrical Wiring with fuses, switches, holders, bulbs, fans, emergency lights etc.	800VA. 500 Watts	5 Tube lights, 3 fans, 2 hrs backup	1	25000					
Packing / Grading Table	4'X8' of GI or SS material, with 100mm side protection to stop roll off and with provision to drain water.		1	20000					
Plastic Tubs / Cement Tubs	5'.6" x 2'.6" x 0'.17" 1 st Water tub for cleaning of fruits before chemical treatment with fresh water. 2 nd water tub for fungicidal treatment. 3 rd water tub for cleaning of fruits after treatment with fresh water.		3	20000					
Over Head Plastic Tank	Plastic "Sintex" or equivalent or cement based located at height either outside or with separate support. Water connection from sintex water tank to 3 water tubs with PVC pipe.	2000 lts.	1	15000					
Ceiling Fans and local made tables covered with foam and rexine				20000					
other assets	Small office table, 3nos chairs			15000					
Total :				400000					
Bank loan disbursed to the promoter (If credit linked back ended subsidy)									
Promoters margin amount									
Total :									

Certificate:

1) This is to certify that Sri./ Smt. _____ has established Pack House as per project report and

norms of MIDH.

2) This is to certify that all the original purchase bills of the items mentioned above have been verified and found correct.

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

4) The subsidy amount of Rs. _____/- may be released.

Promoter

HO

DHSO

Banker (If credit linked back ended subsidy)

FORMAT TO CONDUCT FINAL AND JOINT INSPECTION OF PACK HOUSE FOR FLOWERS BY THE COMMITTEE UNDER POST HARVEST MANAGEMENT COMPONENT OF MIDH, TELANGANA.

Name of the farmer:

District:

Place:

Date of approved in SLEC :

As per project report					As per the inspection and actual investment				
Particulars	Specifications	Capacity / Units	Qty	Amount (Rs.)	Specifications	Capacity	Qty	Amount (Rs.)	Remarks
Pack House	30 x 20 ft. with GI/Asbestos roof, Hard cement flooring, Windows, doors of country wood/ Iron Sheet. 6 windows and 2 no. of 6 feet double door.	600 sft.	1	275000					
Meter with connection, Electrical Wiring with fuses, switches, holders, bulbs, fans, emergency lights etc.	800VA. 500 Watts	5 Tube lights, 3 fans, 2 hrs backup	1	2500					
Weighing Machine	406 X 660 mm/ 300 Kgs Capacity	300 Kg	1	10000					
Mechanical :									
Grading and working table	3' x 5' of wooden or iron or Plastic tables	No's	4	20000					
Stools for Tables	Wooden or plastic or iron stools	No's	24	8000					
Plastic Buckets	Plastic buckets each of 20 lts capacity	No's	20	3500					
Plastic tubs	Plastic tubs each of 40 lts capacity	No's	6	3000					
Secatures	Secatures - 5	No's	5	2500					
Scissors	Scissors - 12	No's	12	3000					

Over Head Plastic Tank	Plastic "Sintex" or equivalent or cement based located at height either outside or with separate support. Water connection from sintex water tank to 3 water tubs with PVC pipe.	2000 lts.	1	15000					
Ceiling Fans and local made tables covered with foam and rexine				20000					
other assets	Small office table, 3nos chairs			15000					
Total :				400000					
Bank loan disbursed to the promoter (If credit linked back ended subsidy)									
Promoters margin amount									
Total :									

Certificates:

- 1) This is to certify that Sri./ Smt. _____ has established Pack House as per project report and norms of MIDH.
- 2) This is to certify that all the original purchase bills of the items mentioned above have been verified and found correct.
- 3) This is to certify that Sri./ Smt. _____ is eligible to avail subsidy of Rs. _____/-
- 4) The subsidy amount of Rs. _____/- may be released.

Promoter

HO

DHSO

Banker (If credit linked back ended subsidy)

D. (2) PRE-FABRICATED PACK HOUSES

Pattern of Assistance:

Sl.No	Name of the Component	Total Unit Cost	Subsidy
1	Pre- Fabricated Pack house	Rs. 4.00 lakh/unit with size of 9Mx6M	50% of the total cost i.e., Rs.2.00 lakh per Unit.

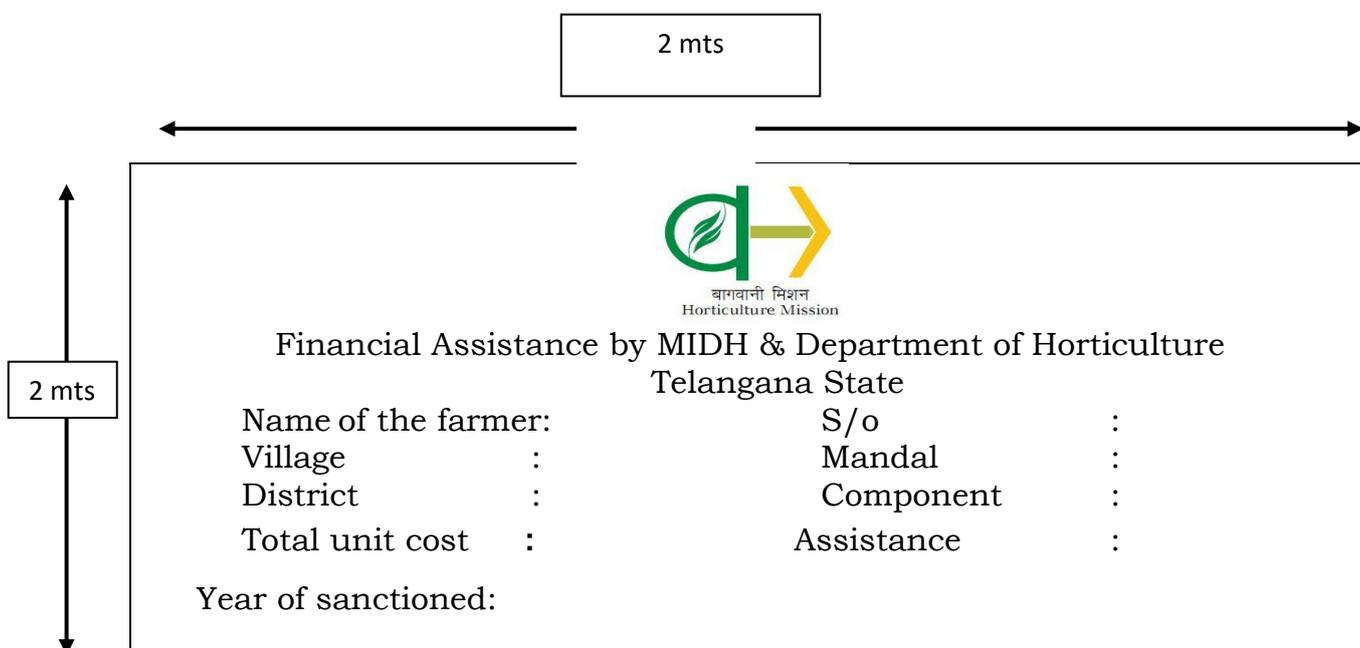
1. The installation of Pre-Fabricated Pack house should be done by the empanelled firm approved by the TS Agros for the year 2018-19.
2. Wide publicity to be given for identified locations / areas on benefits / facilities being provided by the department through local news papers, electronic media, pamphlets, display on the notice board of Z.P.Ps / M.P.Ps / Village Panchayats.
3. The farmer/applicant will submit application to the HO/ DHSO in the prescribed format.
4. Due preference shall be given to SF / MF, SCs, STs and Women as per the norms in selection process.
5. 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.
6. **Filing of Applications through Hortnet is mandatory.**
7. The DHSOs are requested to scrutiny the project proposals of Pre-Fabricated Pack houses and send copy of DMC approval duly attesting along with details and forward to this office for obtaining **SLEC approval** at State cell for issuing of Administrative sanction.
8. Joint inspection team to be constituted for Pre- Fabricated pack houses:
 - a) In respect of the Joint inspection, the DHSOs shall organize Joint inspection of the Pre- Fabricated Pack house in presence of promoter duly constituting a committee with the following members with DMC approval:
 - 1)DHSO
 - 2)Horticulture Officer
 - 3)Farmer
 - b) The joint inspection reports should be sent in formats enclosed with all necessary certifications along with DMC approval to the Head office for release of subsidy to the beneficiaries accounts.

c) The DHSO shall take up 100% inspections of the established Pre-Fabricated Pack houses and also shall monitor the status of Pre-Fabricated pack houses sanctioned.

9. To avoid spoilage of produce in the units the temperature should be regulated. Hence, the unit should have (04) ventilators, (02) Windows & (01) Exhaust Fan.

TERMS AND CONDITIONS:

1. The installation of Pre-Fabricated Pack house should be done by the empanelled firm approved by the TS Agros for the year 2018-19.
2. The farmer should display the board and place in front of the Pre Fabricated Pack House Banners/Flexes are not to be permitted. The Logo of Mission for Integrated Development of Horticulture and the matter mentioned below:



3. The project should be implemented within a period of six (06) months from the date of in-principle sanction and if the project is not completed within the above stipulated period the project is deemed to have been cancelled.
4. The farmers should inform the completion of the Pre Fabricated Pack house to the concerned DHSO in writing along with photograph.
5. After installation of Pre Fabricated Pack house, the committee consisting of DHSO, the concerned HO, will inspect the Pre Fabricated pack house in presence of farmer and submit the joint inspection report in the prescribed format along with the enclosures therein.

6. The subsidy shall be released to the beneficiaries accounts only subject to the actual expenditure, receipts i.e., Total unit cost and joint inspection reports.

7. The payment will be made after the project has been successfully installed basing on the strength of the joint inspection report and as per the availability of funds.

8. Undertaking from the farmer that the Pre Fabricated Pack house will be utilized for the purpose for which it is sanctioned / as per the project i.e. for horticulture produce only.

9. The promoter shall not claim subsidy from any other Government agency for the same unit. The Department will initiate recovery proceedings under RR Act. If there is any deviation to this condition.

10. In case of any discrepancy /dispute the decision of the Mission Director & Director of Horticulture is final.

11. The farmer should construct/installation the Pre Fabricated Pack house as per the specification mentioned in Implementation guidelines for the year 2018-19.

**TECHNICAL SPECIFICATIONS FOR PRE- FABRICATED PACK HOUSE
(9 mts x 6 mts)**

Sl. No	Name of the structure	Details	Qty	Unit	Rate in (Rs.)	Total Cost (Rs.)	To be borne by the farmer in (Rs.)	To be borne by the Firm
1	Land	Nearer to Road, Power Poles, Water sources	5000	sq.ft		Farmer's Own		
2	Flooring cost	40' x 25' ft	1000	sq.ft	77	77000	77000	
3	Site Levelling & wire fencing	Levelling to make it plain surface	1000	sq.ft	15	15000	15000	
4	Electrification charges		1	Set	35000	35000	35000	
5	Water Pipeline		1	Set	26000	26000	26000	
6	Plastic Crates		50	Nos.	350	17500	17500	
7	Weighing Machine		1	Nos.	20000	20000	20000	
8	Water Tank	1000 Lit Capacity	1	Nos.	10000	10000	10000	
9	Pre- Fabricated pack house Structure cost	9 x 6 mtrs (30' x 20' feet)	1	Set	200000	200000		200000
	Total (Rs in Lakhs)					400500	200500	200000

FORMAT TO CONDUCT FINAL AND JOINT INSPECTION OF PRE- PACK HOUSE (FLOWERS & ORCHARDS) BY THE COMMITTEE UNDER POST HARVEST MANAGEMENT COMPONENT OF MIDH, TELANGANA

Name of the farmer:

District:

Place:

Date of approved in SLEC :

Sl. No	Name of the structure	Details	Qty	Unit	Rate in (Rs.)	Total Cost (Rs.)	Subsidy recommended by the DHSO/DLHSCO after conducting field inspection
1	Land	Nearer to Road, Power Poles, Water sources	5000	sq.ft		Farmer's Own	
2	Flooring cost	40' x 25' ft	1000	sq.ft	77	77000	
3	Site Levelling & wire fencing	Levelling to make it plain surface	1000	sq.ft	15	15000	
4	Electrification charges		1	Set	35000	35000	
5	Water Pipeline		1	Set	26000	26000	
6	Plastic Crates		50	Nos.	350	17500	
7	Weighing Machine		1	Nos.	20000	20000	
8	Water Tank	1000 Lit Capacity	1	Nos.	10000	10000	
9	Pre- Fabricated pack house Structure cost	9 x 6 mtrs (30' x 20' feet)	1	Set	200000	200000	
	Total (Rs in Lakhs)					400500	

Certificate:

- 1) This is to certify that Sri./ Smt. _____ has established Pre-Fabricated Pack House as per project report and norms of MIDH.
- 2) This is to certify that all the original purchase bills of the items mentioned above have been verified and found correct.
- 3) The subsidy amount of Rs. _____/- may be released to the -----
--- Firm for establishment of pre-fabricated pack house.

Promoter

HO

DHSO

E. COLD ROOMS WITH ADD ON TECHNOLOGY FOR SOLAR ENERGY

(STAGING):

Note: MIDH, GoI has approved Solar Cold Rooms (5 M.T) under Cold Room (Staging) component of “Integrated Post Harvest Management” with add on technology for Solar Energy, as per MIDH guidelines.

Therefore, for sanction of such units pertaining to spill over targets of 2017-18 brought forwarded to 2018-19 and as well as fresh targets of 2018-19 are to be implemented as per the guidelines given below.

Pattern of Assistance:

S.No	Item	Max permissible Cost	Pattern of Assistance
1	Cold Rooms with add on technology for solar energy	Rs. 15.00 lakhs per unit (5MTs)	Credit linked back ended subsidy @ 35% of the total cost i.e., Rs. 5.25 lakh/unit

1. The Solar Cold Rooms are aimed to store and increase shelf life of Horticulture produce.
2. The Horticulture Farmers are only eligible for this scheme.
3. Purchase of Solar Cold Rooms should be from empanelled firms approved by the TS Agros for the year 2018-19.
4. The assistance will be provided on credit linked back ended subsidy basis. The beneficiary shall take loan from the Bank for purchase of solar cold room then he/she has to submit Bank consent along with loan sanctioned letter and the subsidy will be released to the loan account of the farmer as it considered as a credit linked back ended subsidy.
5. The DHSOs shall scrutiny project proposals and shall obtain DMC approval and send the copy of DMC approval along with applications with all the relevant documents to Head Office for obtaining SLEC approval at State level. After getting approvals the administrative sanction orders issued to the concerned beneficiaries through District Officers.
6. The farmer/entrepreneur should inform the completion of the project to the concerned DHSO in writing along with photographs.
7. Joint inspection team should ensure that fabrications of unit is done through empanelled firm approved by the Agros.
8. The committee consisting DHSO the concerned HO will inspect the project in presence of Promoter and submit the joint inspection report in the

prescribed format along with the enclosures therein and photographs of the joint inspection team.

9. The promoters of the unit shall give extensive publicity about functioning of the facility among horticulture growers to enable them to utilize the facility.
10. The promoter shall not claim subsidy from any other Government agency for the same unit. The Department will initiate recovery proceedings if there is any deviation to this condition.
11. Detailed invoice with quantity of materials used for each component of the unit to be submitted along with joint inspection report for release of subsidy.
12. The release of subsidy is subject to actual expenditure, receipts, inspection report, submission of required documents and availability of funds with SHM.
13. Mission Director & Director of Horticulture, Telangana State., Hyderabad reserves the right to modify, add or delete any term/ condition without assigning any reason thereof.
14. A board with the logo of the MIDH shall be kept on the Solar Cold Room, the Logo of Mission for Integrated Development of Horticulture and the matter mentioned below shall be written on the board.

 తెలంగాణ రాష్ట్ర ప్రభుత్వం ఉద్యానశాఖ రాయితీ సోలార్ శీతల గది		
రైతు పేరు:	గ్రామము :	
మండలము :	జిల్లా :	
సెల్ నెం	: అనుమతి పొందిన సంవత్సరం :	
సామర్థ్యం:		
అనుమతి ఇచ్చిన ఉత్తర్వు నెం మొత్తము	: యూనిట్ విలువ	: (లక్షలలో)
ఉద్యాన శాఖ ద్వారా రాయితీ పొందిన వివరములు :		(లక్షలలో)

- Preference should be given to the SC, ST & Women categories beneficiaries.
- The beneficiaries details i.e., filed photos, bills, vouchers, receipts, documents etc., should be uploaded in HORTNET before sending release proposals to the Head Office.

Technical Specifications:

1. The Unit should be with Thermal storage back up for storage of fresh produces- Fruits, Flowers, Vegetables specifically.
2. The Unit should have dimensions of 20 ft x 8ft x 8 ft with solar panel mounted on the roof top of the unit.
3. The temperature should be maintained 2 °C to 10 ° C and humidity is 80-95 %.
4. The Unit should have battery less compressor operation.

**FORMAT TO CONDUCT FINAL AND JOINT INSPECTION BY THE COMMITTEE
UNDER SPECIAL INTERVENTION COMPONENT FOR SOLAR COLD ROOM
UNDER MIDH, TELANGANA**

COLD ROOMS WITH ADD ON TECHNOLOGY FOR SOLAR ENERGY (STAGING):

Name of the Firm:

Village & Mandal:

District:

Sl.No	Particulars	Project cost Rs. in Lakhs	Subsidy in Lakhs
1	2	3	4
1	Portable 1 MT Pre-Cooler with 5 MT staging facility -VCRS Refrigeration Systems - Variable Frequency Compressor - PUF Panels- 100 mm insulation - Heavy Duty door - 20 ft x 8 ft – easily transportable - 760 cu ft usable volume - 4 – point loading & unloading external cag	15.00	7.50
2	Solar System with back up - 4 KWP solar panels - Solar Mounting Structure - Drive Controller - High Voltage power convertors - Phase Change Material - 24-30 hours back up during non-sunshine hours		
3	Programmed Logic Controller Equipment PLC		
4	5 KVA DG Set (optional)		
	Total	15.00	7.50

Certificate:

- 1) This is to certify that Sri./ Smt. _____ has established Solar Cold Room as per project report and norms of MIDH.
- 2) This is to certify that all the original purchase bills of the items mentioned above have been verified and found correct.

3) The subsidy amount of Rs. _____/- may be released to the -----
-----farmer term loan account subject to the terms & conditions which has
communicated through administrative sanction order.

Promoter

HO

BANKER

DHSO

F. INTEGRATED PACK HOUSES :

Pattern of Assistance:

S.No	Item	Max permissible 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

NOTE:

The technical specifications and Operational Guidelines for Integrated Pack houses shall be communicated shortly.

VIII. SPECIAL INTERVENTIONS

The components under Special Interventions for the year 2018-19 are

1. Turmeric Slicing machine
2. Turmeric / chilly solar dryers
3. Turmeric powder making machine
4. Garden tools for canopy management
 - a. By pass cut and hold secateurs
 - b. By pass Loopers
 - c. Solar light traps.
5. Insect proof net for Vegetable crops

NOTE:

The cost norms, subsidy pattern, technical specifications and Operational Guidelines for shall be communicated shortly, after receiving empanelled firms list from AGROS

IX. ESTABLISHMENT OF MARKET INFRASTRUCTURE:

Pattern of Assistance:

S.No	Item	Max permissible Cost	Pattern of Assistance
1	Retail markets/outlets (Environmentally controlled)	Rs. 15.00 Lakh	Credit linked back ended subsidy @ 35 % of the capital cost of the project.

NOTE:

The Operational Guidelines shall be communicated shortly.

X. Technology Dissemination through Frontline Demonstrations

Pattern of Assistance:

Rs. In Lakhs

S. No	Item	Unit	Max permissible Cost	Subsidy	Pattern of Assistance
1	FLD – Dragon Fruit (Public Sector)	Acre	4.75	4.75	100 % subsidy
2	FLD – Dragon Fruit (Farmer field)	Acre		3.563	75 % subsidy, limited to 1 unit per beneficiary

NOTE: The Assistance will be provided for 1st year only.

Cost of cultivation Per Acre

Cost of cultivation : Dragon fruit (*Hylocereus undatus*)

S. No.	Item wise cost (Rs.)	Amount in Rs.			Remarks
		1 st year	2 nd Year	3 rd Year	
1	Soil preparation cost (Ploughing/harrowing/levelling etc)	5000	5000	5000	
2	Organic manures cost	55000	55000	55000	
3	Plant material (seed / Seedling) cost	202800	20280	0	Plant material cost includes transportation and plantation cost also
4	Stone poles / cement poles /	177450	0	0	350 Rs. / pole as per MIDH / RKVY norms
5	Nursery raising cost	0	0	0	
6	Transplanting cost	0	0	0	
7	Cost of Fertiizers	18700	18700	18700	
8	Mannure Application cost	2000	2000	2000	
9	Weeding cost	12000	12000	12000	
10	Pesticides cost	1000	1000	1000	
11	Spraying cost	1000	1000	1000	
12	Irrigation cost	0	0	0	
13	Harvesting cost	0	0	30000	
	Total cost	474950	114980	124700	

NOTE: The complete guidelines for Front line Demonstrations for Farmer Field will communicated shortly.

XI. 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 DHSO 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.
4. The farmers / beneficiaries identified under SHM especially, for Area expansion, Protected Cultivation, Front line Demonstrations should invariably be covered under HRD programme.
5. The DHSO 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.
6. 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.**
7. 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.
8. Documentation like photograph shall be taken for each training program. Press publicity should be given on these training programs.
9. The DHSO 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.
10. 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 DHSO 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 DHSO .

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 organized to the neighbouring districts to educate the farmers on latest technologies adopted. The expenditure per training should not exceed Rs.25,000/- 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 – 2018-19

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.
2. The visits should be completed within the financial year 2018-19. 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. Before organizing 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.
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 A4 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.

iii. Training to Technical Staff

(DHSO /HOs)

i) Within State:

The eligibility per participant is Rs. 300/- per day besides TA/DA admissible as per APTA Rules. The nomination of Departmental Officers to training programme within the State will be made by SHM with the approval of DOH / Mission Director and funds will be released accordingly.

iv. Training to Tech. staff Other states (5day x 800 per day = 4000)

Under this Programme a group of minimum of 5 participants from departmental officers will be nominated by SHM with the approval of DOH/Mission Director to the other States, GOI Institutions, National Institutions and Research Centres etc., The amount admissible will be Rs.800/- per day per participant plus TA/DA as admissible as per APTA Rules, which will be released after allotment of funds by NHM.

v. Exposure Visits to Technical staff outside the Country

Under this Programme specific proposals need to be sent to NHM, for approval by GOI and expenditure of not more than Rs.5.00 lacs per participant and 100% cost of actual expenses will be admissible.



Recent Passport
Size Photograph

**DEPARTMENT OF HORTICULTURE-
GOVERNMENT OF TELANGANA**

Mission for Integrated Development of Horticulture 2018-19

Application for Subsidy

- 1 Application No. :
- 2 Online ID No :
- 3 Name of the Scheme :
- 4 Name of the Crop :
- 5 Name of the farmer :
- 6 Name of the Father/Husband :
- 7 Village :
- 8 Mandal :
- 9 District :
- 10 Survey No :
- 11 Land (Leased/Owned) : (if owned pattadhar passbook/
original computer pahani/Recent
Registration Document)
- 13 Total Area (in Ha) :
- 14 Proposed Area (in Ha) :
No of Plants per Ha :
Spacing (in meters) :
- 13 SF/MF/BF :
- 14 Category: General/BC/SC/ST
- 15 Soil Type : Red soils/Black soils/Red
loamy soils/Sandy soils
- 16 Source of Irrigation : (Bore well/open well)
- 17 Drip Irrigation : Yes/No
- 18 Total Amount for Non-Subsidy :
- 19 DD No. for Non- Subsidy amount :
- 20 Whether any Govt. Subsidy availed :
previously
- 21 Bank Account Number :
- 22 Name of the Bank :

- 23 Name of the Branch :
- 24 IFSC Code/RTGS Code :
- 25 Mobile number :

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

Signature of the Farmer / Entrepreneur.

Recommendations of the

Horticulture Officer _____.

Receipt

Received an application of Sri/Smt _____
 S/o./D/o. _____ (V) _____, (M) _____,
 Dist _____ On _____ for _____ scheme
 and this application will be considered after field verification on First come First serve
 Basis.

Horticulture Extension Officer

Signature

Horticulture Officer

**MISSION FOR INTEGRATED DEVELOPMENT OF HORTICULTURE
TIME-LINE FOR IMPLEMENTATION OF VARIOUS COMPONENTS - 2018-19**

GENERAL			
Sl. No.	Description of work	Time frame	Action to be taken by
1	Survey of identified area under all schemes for suitability of that particular crop and irrigation source.	By 1 st week of July	HO/ HEO
2	Submission of eligible beneficiary list after verification	By 3 rd week of July	H.O.
3	Online registration of beneficiaries in HORTNET (along with bank details, photographs, etc.,)	By 3 rd week of July	H.O.
AREA EXPANSION (Fresh Plantation)			
Sl. No.	Description of work	Time frame	Monitoring by
1	Issue of Administrative sanction proceedings with approval of District Mission Committee (DMC)	By 1 st week of August, 2018	DH& SO
2	Completion of pitting	By 2 nd week of August,2018	H.E.O.s
3	Issue of permits for supply of plant Material	By 3 rd week of August,2018	H.E.O / H.O.
4	Completion of planting	By 3 rd week of August, 2018	H.E.O.s
5	Physical verification of field	3 rd week to 4 th week of August - 2018	H.O. / DH & SO
6	Collection of bills and uploading of bills and photographs in Hortnet	By 1 st week to 3 rd week of September 2018	H.E.O. / H.O.
7	Final DMC approval for release of funds	4 th week of September, 2018	DH & SO
8	Forwarding to ED login for release	By 1 st week of October, 2018	DH & SO
9	Release of funds from Head office through DBT	Based on receipt of release proposals	ADH at Head Office
2nd & 3rd YEAR MAINTENANCE			
1	Survival Verification	By 2 nd week of July,2018	H.E.O. / H.O.
2	Preparation of beneficiary list	By 3 rd week of July,2018	DH & SO / H.O.
3	Placing of indents	By 3 rd week of July,2018	H.O.s / DH & SO
4	Issue of permits for supply of plant material for gap filling	By 4 th week of July 2018	H.O.s / DH & SO
5	Supply of plant Material for gap filling	By 1 st week of August, 2018	H.E.O / H.O.

6	Uploading of beneficiary details along with photographs in Hortnet	By 2 nd week of August, 2018	H.E.O / H.O.
7	Forwarding to ED login for release	By 4 th week of August, 2018	DH & SO
8	Disbursement of Cash Assistance online through DBT	Based on receipt of release proposals	ADH Head Office
PROTECTED CULTIVATION			
1	Forwarding of proposals, with DMC approval to Head office.	By 2 nd week of August, 2018	DH& SO
2	Obtaining approval in SLEC meeting	Based on ensuing SLEC	Head office
3	Issue of Sanction Proceedings	Based on SLEC Meeting	ADH Head office
4	Organizing Exposure Visits	By end of August, 2018	H.O. / DH & SO
5	Completion of erection of structure / planting	60 days from issue of administrative sanction orders	HEO / MIO
6	Inspection by the committee	As per completion	All the Committee Members
7	Release of the subsidy through DBT	Based on joint inspection report	ADH Head office

FARM PONDS			
Sl. No.	Description of work	Time frame	Action to be taken by
1	Technical feasibility	By 4 th week of July, 2018	HO& MI Engineer
2	Issue of administrative sanction duly obtaining DHM approval	By end of August, 2018	DH & SO
3	Organizing Training programme	By 1st week of September, 2018	HO/ DH & SO
4	Excavation of Farm pond	Within 25 days after receipt of administrative sanction from the DH & SO	FARMER
5	Lining with geo membrane sheet	Within 20 days after excavation and consolidation of farm pond	FARMER
6	Fencing, display board, erection of sand filter and connection to drip system.	Within 10 days after sheet laying	FARMER