

Implementation Guidelines

ESTABLISHMENT OF NEW GARDENS

Objective:

- To bring additional area under identified Fruit crops (Perennial/ Non- perennial) with improved varieties / Hybrids.

Non-negotiable

District Horticulture Mission should ensure that Area Expansion (Perennial fruits / Non-perennial fruits) programme to be implemented in clusters in a contiguous area, instead of doing it in scattered & unplanned manner. This approach will help in providing both backward and forward linkages and enable the Dept., to discharge effective extension service.

1. Minimum area per each block should be above 10 Ha for better monitoring.
2. **Maximum limit for each beneficiary is 4 ha under establishment of new gardens as per the MIDH GOI guidelines.**
3. New clusters & new beneficiaries shall be selected under these programmes as per area specific and climate specific crops preferably adjacent to the existing clusters.
4. The assistance under these components shall **not** be extended to the beneficiaries who availed maximum eligibility as per norms during previous years. The ADHs & HOs should be cautious while selecting the beneficiaries.
5. The beneficiary selection need to be done in most transparent manner by conducting Grama sabhas and the list should be registered in Hortnet and it should be approved by District Mission Committee. A copy of the same in telugu should be sent to the farmers showing the details of component wise assistance being provided.
6. Coverage of SC/ST & Women farmers as per the prescribed ratio is minimum mandatory requirement under these components, any deviation cannot be permitted.

7. Horticulture Officers of the concerned area should obtain applications from beneficiaries along with photograph of self and land without plantation in the existing format prescribed.
8. **The farmers who are having assured source of irrigation and power supply are to be selected & Micro irrigation should be integrated for better survival of plantations taken up under MIDH / State plan / RKVY through APMIP as per guidelines.**
9. Land holding of the farmers should be certified by Horticulture Officers on the basis of data from webland.
10. The HO concerned should maintain Register for recording the details of identified beneficiaries i.e. land details/survey no/crop/variety/source of plant material/ date of planting /inputs supplied/non subsidy particulars/Bank account No. and IFSC code etc.
11. ADH shall organize training programmes to the beneficiaries identified under Establishment of New Gardens, on all aspects of Package of practices and advanced techniques adopted for specific crop.
12. HO should inspect 100% fields identified under his jurisdiction before sanction of the scheme and he himself should satisfy on soil suitability and availability of water and authorized power connection before recommending.
13. Selection, documentation and Hortnet registration process should be completed in a time bound manner and seasonality must be adhered to, for plantation, distribution & utilization of inputs at any cost.
14. Before permitting the beneficiaries to start land preparation, pitting etc, the ADH should ensure to take approval of DMC for the selected beneficiaries.
15. ADH should ensure proper documentation and registration in Hortnet of various stages of implementation (viz., land preparation / pitting, planting & installation of micro irrigation system along with necessary photographs) by the HOs concerned.
16. Intercropping and multi storied cropping pattern shall be encouraged in all perennial orchards with region specific intercrop as they contribute to soil fertility and income during gestation period.

17. After the completion of plantation, 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.
18. After plantation the 100% field inspection should be done by the HO and ADH should inspect a minimum of 25% of the plantations.
19. All such uploaded bills should be forwarded to the ADH login. In turn the ADH 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 in case of MIDH.
20. **The assistance will be provided to the beneficiaries through online transfer from the State Head quarters through HORTNET in CFMS mode or through online directly to the beneficiary in case of MIDH / RKVY / and through treasury under State plan.**

A. Supply of Plant Material:

1. Priority should be given for supply of plant material from tied-up Horticultural farms / Research stations of ANGRAU / Dr. YSRHU.
2. However, farmers may be permitted to purchase plant material from the private nurseries which are **accredited by National Horticulture Board / Registered under A.P Nursery Act.**
3. In cases where, the plant material is supplied from Department Horticultural farms, the assistance amount towards plant material shall be directly released to the Horticultural farms Accounts maintained by the ADHs duly obtaining necessary bills/invoices from the farm in-charge.
4. In cases where, the plant material is purchased by the farmers from Research stations or from Pvt. Nurseries, the ADH shall recommend release of the plant material assistance to the farmers through Hortnet as per the certification of HO concerned on bills/invoices submitted by the farmers.

5. In case of TC Banana, the list of Tissue culture banana plants producing labs accredited with DBT, GOI under NCS - TCP **shall be given to the farmers and the plant material shall be procured by the farmer as per his/her choice.**
6. The beneficiary shall procure the plant material by incurring full cost from T.C. Labs out of his own choice from the approved list and assistance (cash) will be transferred through Hort net to the beneficiaries account.
7. Before releasing plant material assistance to beneficiary, HO should certify the plantation of the beneficiary and submit along with digital photograph.
8. **The actual cost of the plant material or the cost of plant material indicated in the input package whichever is less should be considered and eligible assistance has to be calculated accordingly.**
9. In case, the cost of plant material is more than the cost indicated in the input package, the eligible assistance should be limited to subsidy indicated in the package and differential amount is to be borne by the beneficiary.
10. No amounts shall be paid to the private nurseries directly.

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

Assistance pertaining to Vermi compost, FYM, irrigation, inter crop, 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 on self certification of the farmer** for all the inputs and the subsidy amount will be transferred to farmers account as cash transfer through online transfer from O/o CoH on submission of certification or receipt of proposals from ADH for release of amount through HORTNET.

The farmers have to apply recommended doses of fertilizers and pesticides for increasing production and productivity. The expenditure on IPM / INM, over and above subsidies indicated are to be borne by farmer himself.

The cost involved in components like preparation of land, planting, stocking, inter cultivation operation should be borne by farmer only. No subsidy will be provided to labour components.

Subsidy regarding Micronutrients:

MARKFED is supplying micronutrients on 50% subsidy provided by the Agriculture department through PACS. Farmers are advised to take micronutrients from concerned PACS.

C. Implements

The supply of garden tools under Area Expansion should be within the empanelled firms and prices finalized by the AP Agros for the year 2016-17 for the provision indicated in the package.

Either the price approved by A.P Agros or the price indicated in the input package whichever is less should be considered.

Assistance towards the implements has to be released to the farmer only on production of bills.

D. Integration with Drip

It is mandatory that all the new plantations taken up under Establishment of new Gardens should be integrated with Drip irrigation. The farmers who don't have micro irrigation have to **register their names with Mee seva under APMIP after taking up plantation so as to avail the benefit of MI as per APMIP norms.**

E. Financial assistance:

1. **Perennial crops**: Mango, guava, pomegranate, sweet orange, acid lime, grape, cashew & cocoa. Out of Total cost of plantation + inputs etc., the maximum eligible subsidy is 40% on total cost towards, plant material, + INM + IPM, which are to be given

in 3 instalments in 3 years in the ratio of 60:20:20, subject to survival rate of 75% in 2nd year and 90% in 3rd year. The maximum area limit for beneficiaries in 4 Ha.

2. Non- Perennial :

1. T.C Banana & Pine apple: out of total cost of Plant material + inputs, the maximum eligible subsidy is 40% on total cost of plant material + inputs (INM / IPM), in 2 instalments i.e. 75:25 (i.e.75% in 1st year and 25% in 2nd year).

2. Papaya: out of Total cost of Plant material + inputs, the maximum eligible subsidy is 50% on the total cost of plant material + inputs (IPM / INM), in 2 instalments (75:25) (i.e. 75% in 1st year and 25% in 2nd year).

3. Pineapple: The maximum assistance is Rs 35,000/- towards cost of plant material and inputs (INM / IPM) in 2 instalments (75:25) as detailed below

I year - 75% of assistance - Rs 26,250 /- towards cost of plant material and inputs (INM / IPM)

II year - 25% assistance - Rs 8750 /- towards cost for 25% gap filling plant material and inputs (INM / IPM)

The ADH, Srikakulam is directed that the Year-wise, sub-component-wise Pattern of Assistance and input package for Pineapple shall be prepared by the local scientist, Srikakulam, Dr. Y.S.R. Horticulture University basing on the local conditions and spacing adopted and implement duly obtaining the approval of The District Collector.

Year-wise, sub-component-wise Pattern of Assistance for different crops under Area Expansion is detailed below and should be followed scrupulously.

PATTERN OF ASSISTANCE FOR MANGO (7.5 m X7.5 m) FOR ONE HECTARE.

No. of plants-178 / ha.

Sl. No.	Name of sub-component	*Total Cost (in Rs.)	Assistance (in Rs.)			Eligible Subsidy (in Rs.)
			1st year	2nd year	3rd year	
1	Plant Material including Transportation Cost	8435	2492	630	252	3374
2	Inputs					
i	FYM	4000	2000			2000
ii	Neem Cake/ Vermicompost	3000	800	160	340	1300
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	15000	2000	1270	1450	4720
iv	PP Chemicals/ Bio pesticides	5225	688	600	618	1906
Sub-total		27225	5488	2030	2408	9926
Total		35660	7980	2660	2660	13300

* Total cost is restricted to Rs 33250 /- as per maximum permissible unit cost under MIDH and assistance allowed is 40 % of the maximum permissible unit cost i.e Rs 13,300 /- over 3 years.

- **Critical inputs – ZnSO₄, Boribm 13:00:45, PSB**
- **Plant protection chemicals, Bio-pesticides and Bio-fungicides – Neem oil, chlorpyrifos, Imadacloprid, carbendazim, Hexaconazole, T.viride, COC (copper oxy chloride)**

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

i. MANGO (5M x 5M)

No. of Plants per Ha. 400

A.PATTERN OF ASSISTANCE FOR MANGO (5 m x 5m) FOR 1 HA						
Sl. No.	Name of Sub-component	Total Cost (in Rs.)	Year wise Assistance per Ha.			Eligible Subsidy (in Rs.) per Ha.
			1st year (2015-16)	2nd Year (2016-17)	3rd year (2017-18)	
1	Plant Material (@Rs25/- per plant)	13500	4000	1000	400	5400
2	Inputs					
I	FYM	7500	1500	750	750	3000
ii	Neem Cake / Vermicompost	4200	790	420	390	1600
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	9000	1440	900	1260	3600
iv	PP Chemicals/ Bio pesticides	6000	1710	210	480	2400
V	Implements (Secateurs, Small hand saw)	800	400	0	0	400
Total of Inputs		27500	5840	2280	2880	11000
Total (Plant Material + Inputs)		41000	9840	3280	3280	16400

- **Critical inputs – ZnSO₄, Boribm 13:00:45, PSB**
- **Plant protection chemicals, Bio-pesticides and Bio-fungicides – Neem oil, chlorpyrifos, Imadacloprid, carbendazim, Hexaconazole, T.viride, COC (copper oxy chloride)**

PATTERN OF ASSISTANCE FOR MANGO ULTRA HIGH DENSITY PLANTATION (3 m X 2m)

No. of plants -1667/ha.

Sl. No.	Name of sub-component	*Total Cost (in Rs.)	Year wise Assistance Per Ha. (in Rs.)			Eligible Subsidy (in Rs.)
			1st year	2nd year	3rd year	
1	Plant Material including Transportation Cost	78785	23338	5838	2338	31514
2	Inputs					
I	FYM	13925	320	600	1000	1920
li	Neem Cake/ Vermicompost	10825			300	300
lii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	17675		782	2500	3282
Iv	PP Chemicals/ Bio pesticides	14175		780	1862	2642
V	Implements (Secateurs, Small hand saw)	1400	342	0	0	342
Sub-total		58000	662	2162	5662	8486
Total		136785	24000	8000	8000	40000

***Total cost is restricted to Rs 100000 /- as per maximum permissible unit cost under MIDH and assistance allowed is 40 % of the maximum permissible unit cost i.e Rs 40000/- over 3 years.**

- **Critical inputs – ZnSO₄, Boribm 13:00:45, PSB**
- **Plant protection chemicals, Bio-pesticides and Bio-fungicides – Neem oil, chlorpyrifos, Imadacloprid, carbendazim, Hexaconazole, T.viride, COC (copper oxy chloride)**

PATTERN OF ASSISTANCE FOR GUAVA (3 m X 3 m) FOR ONE HECTARE.

No. of plants 1111 / ha.

Sl. No.	Name of sub-component	Total Cost (in Rs.)	Assistance (in Rs.)			Eligible Subsidy (in Rs.)
			1st year	2nd year	3rd year	
1	Plant Material including Transportation Cost	37500	11110	2780	1110	15000
2	Inputs					
i	FYM	4000	1000		500	1500
ii	Neem Cake/ Vermicompost	4000	1000	500	500	2000
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	22000	2000	1500	2000	5500
iv	PP Chemicals/ Bio pesticides	5830	2489	1086	1756	5331
Sub-total		35830	6489	3086	4756	14331
Total		73330	17599	5866	5866	29331

- Critical inputs – ZnSO₄, MgSO₄, Boron, 19:19:19, PSB, Azatobacter
- Plant Protection chemicals/Biopesticides – T.viride, T. harzianum, Neem oil, Triazophos, COC

**PATTERN OF ASSISTANCE FOR SWEET ORANGE/ KINNOW/ MANDARIN (6 m X 6 m) FOR
ONE HECTARE**

No. of plants-278 / ha.

Sl. No.	Name of sub-component	Total Cost (in Rs.)	Assistance (in Rs.)			Eligible Subsidy (in Rs.)
			1st year	2nd year	3rd year	
1	Plant Material including Transportation Cost	13160	3892	980	392	5264
2	Inputs					
i	FYM	3000	1400			1400
ii	Neem Cake/ Vermicompost	2000	1000	430	344	1774
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	20000	1600	1400	1600	4600
iv	PP Chemicals/ Bio pesticides	3728	1710	391	865	2966
Sub-total		28728	5710	2221	2809	10740
Total		41888	9602	3201	3201	16004

- ZnSO₄, MgSO₄, FeSO₄, MnSO₄, Boron, 13:00:45, PSB, Potassium mobilizing bacteria (KMB).
- T.viride, T. harzianum, CuSO₄, CaCO₃, COC, Dicofol/wettable sulphur/ omit, Imadacloprid

PATTERN OF ASSISTANCE FOR ACID LIME (6m X 6 m) FOR 1 HA.

No. of plants-278 / ha.

Sl. No.	Name of sub-component	Total Cost (in Rs.)	Assistance (in Rs.)			Eligible Subsidy (in Rs.)
			1st year	2nd year	3rd year	
1	Plant Material including Transportation Cost	7520	2224	560	224	3008
2	Inputs					
I	FYM	5000	1500			1500
li	Neem Cake/ Vermicompost	5000	1500	500	500	2500
lii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	20000	3000	1500	1500	6000
Iv	PP Chemicals/ Bio pesticides	2480	1378	641	977	2996
Sub-total		32480	7378	2641	2977	12996
Total		40000	9602	3201	3201	16004

- ZnSO₄, MgSO₄, FeSO₄, MnSO₄, Boron, 13:00:45, PSB, Potassium mobilizing bacteria (KMB).
- T.viride, T. harzianum, CuSO₄, CaCO₃, COC, Dicofol/wettable sulphur/ omit, Imadacloprid, streptocyclin

PATTERN OF ASSISTANCE FOR POMEGRANATE (5 m X 3 m) FOR HA

NO.OF PLANTS – 667/ha

Name of the sub component	*Total cost	Year wise Assistance in Rs			Eligible Assistance in Rs.
		1st year	2nd year	3rd year	
Plant Material including transportation cost	36040	10672	2672	1072	14416
FYM	9110	1500	0	0	1500
Neem Cake / Vermicompost	4000	1372	320	320	2012
Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	20645	1300	1336	2146	4782
PP Chemicals / Bio Pesticides	10000	960	1006	1796	3762
Implements (Secateurs, Spade, Pick axe)	400	200	0	0	200
Sub Total	44155	5332	2662	4262	12256
Total	80195	16004	5334	5334	26672

* Total cost is restricted to Rs 66680 /- as per maximum permissible unit cost under MIDH and assistance allowed is 40 % of the maximum permissible unit cost i.e Rs 26672/- over 3 years.

PATTERN OF ASSISTANCE FOR BANANA (1.8 m X 1.8 m) FOR 1 HA.

No. of plants- 3086 / ha.

Sl. No.	Name of sub-component	Total Cost (in Rs.)	Assistance (in Rs.)		Eligible Subsidy (in Rs.)
			1st year	2nd year	
1	Plant Material	37032	14813	0	14813
2	Inputs				
I	FYM	6000	1500		1500
li	Neem Cake/ Vermicompost	6000	2000	1000	3000
lii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	42000	10500	8000	18500
lv	PP Chemicals/ Bio pesticides	11430	1926	1246	3172
Sub-Total		65430	15926	10246	26172
Total		102462	30739	10246	40985

PATTERN OF ASSISTANCE FOR PAPAYA (1.8 m X 1.8 m) FOR HA

No.Of Plants-3086/ha

S.No	Name of the Sub-component	Total Cost (In Rs.)	Year wise Assistance per Ha		Eligible Subsidy (in Rs.) per Ha
			1st year	2nd year	
1	Plant Material(@ Rs.10/- per plant)	30860	15430		15430
2	Inputs				
I	FYM	14000		2458	2458
li	Neem Cake / Vermicompost	6000	1067	1500	2567
lii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	4095	1000	857	1857
Iv	PP Chemicals / Bio Pesticides	6700	1000	1350	2350
	Sub - Total	30795	3067	6165	9232
	Total	61655	18497	6165	24662

PATTERN OF ASSISTANCE FOR CASHEW (6 m X 6 m) FOR 1 HA.

No. of plants 278 / ha.

Sl. No.	Name of sub-component	Total Cost (in Rs.)	Assistance (in Rs.)			Eligible Subsidy (in Rs.)
			1st year	2nd year	3rd year	
1	Plant Material	7520	2224	560	224	3008
2	Inputs					
i	FYM	5000	1000	0	0	1000
ii	Neem Cake/ Vermicompost	5000	2000	500	1000	3500
iii	Inorganic fertilizers, Water Soluble fertilizers, Bio fertilizers and Micro Nutrients	30000	5000	1500	1500	8000
iv	PP Chemicals/ Bio pesticides	2480	1776	1440	1276	4492
Sub-total		42480	9776	3440	3776	16992
Total		50000	12000	4000	4000	20000

PATTERN OF ASSISTANCE FOR COCOA FOR ONE HECTARE						
xxSpacing	3mt X 3mt		No. of Plants			500
S.No.	Name of the Component	Total Cost in Rs.	Year wise assistance			
			1st Year	2nd Year	3rd Year	Total
1	Plant material					
a	Cost of Plant material including Transportation	4300	4000	1000	400	5400
	Sub Total	4300	4000	1000	400	5400
2	Integrated Nutrient Management					
i	Organic Manures					
a	FYM/Vermi compost	15000	2000	700	1000	3700
ii	Inorganic Fertilisers					
b	Micro Nutrients	4200	1280	200	200	1680
	Sub Total	25200	4780	2500	3100	11480
3	Integrated Pest Management					
a	Plant protection chemicals	8000	2020	500	500	3020
b	Bio Pesticides					
	Sub Total	8000	2020	500	500	3020
4	Prunig implements(One Sickature per farmer)	2500	1200			1200
5	Intercrop					
6	Irrigation/Planting/Maintenance	10000				0
Grand Total		50000	12000	4000	4000	20000

INPUT PACKAGE FOR MANGO (HIGH DENSITY PLANTATION) 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	Tonnes		4	2	2
	Vermicompost / City Compost	Kg	40 Kg	800	480	640
II	Inorganic Fertilizers					
	S.S.P.	Kg	50 Kg	400	160	240
	Urea	Kg	50 Kg	32	64	96
	M.O.P.	Kg	50 Kg	25	48	73
	19:19:19	Kg	1kg	2	2	2
III	Bio Fertilizers					
	P.S.B.	Kg	500 g	8	8	8
IV	Micronutrients					
	Formula – 4	Kg	Kg	8	13	17
V	Plant Protection Chemicals					
	Chlorpyriphos 20% EC	Ltrs	500 ml	3	3	3
	Quinolphos 25% EC	Ltrs	500 ml	2	2	2
	C.O.C. 50% WP	Kg	500 gr	1	1	1
	Imadacloprid	Ltrs	100 ml	2	2	2
	Carbendazim	Kg	500 g	1	1	1
	Sticking Agent	Ltrs	500 ml	2	2	2
VI	Bio Pesticides					
	<i>T. viride</i> / <i>T.harzianaum</i> / <i>Pseudomonas florescence</i> 1x10 cfu/gm	Kg	500 gr	8	8	8

**INPUT PACKAGE FOR MANGO ULTRA HIGH DENSITY PLANTATION
FOR ACRE**

Spacing :(3 m X 2 m)		Unit	No.of plants per Acre:640			
S.No	In Puts		Pkg.size	1st year (2015-16)	2nd year (2016-17)	3rd year (2017-18)
I	Organic Manures					
	Farm Yard Manure	Tonnes		15	6	6
	Vermi-compost / Neem Cake	Kg	40 kg	1500	1000	1000
II	Inorganic Fertilizers					
	S.S.P	Kg	50 Kg	1600	768	1152
	Urea	Kg	50 Kg	128	256	384
	M.O.P	Kg	50 Kg	128	256	384
	19:19:19	Kg	1kg	4	4	4
III	Bio Fertilizers					
	P.S.B	Kg	500g	25	25	25
IV	Micronutrients					
	Zn, Mg, Boron & others as per soil testing report	Kg	Kg	20	30	30
V	Plant Protection Chemicals					
	Chloropyriphos 20% EC	Ltrs	500 ml	3	3	3
	Quinolphos 25% EC	Ltrs	500 ml	2	2	2
	C.O.C 50% WP/Folidol Dust	Kg	500 g	2	2	2
	Imadacloprid	Ltrs	100 ml	4	4	4
	Carbendazim	Kg	500 g	2	2	2
	Sticking Agent	Ltrs	500 ml	2	2	2
VI	Bio Pesticides					
	T.viride / T.harzianaum / Pseudomonas florescene 1x10 cfu/gm	Kg	500 g	25	25	25

INPUT PACKAGE FOR GUAVA (ULTRA HIGH DENSITY PLANTATION) PER ACRE

Spacing 3 m X 3 m

No. of Plants per Acre: 444

Sl. No.	Inputs	Unit	Pkg. size	1 st year	2 nd year	3 rd year
I	Organic Manures					
	Farm Yard Manure	Tonnes		3	2	3
	Vermi-compost	Kg	40 Kg	640	320	640
II	Inorganic Fertilizers					
	S.S.P	Kg	50 Kg	320	118	236
	Urea	Kg	50 Kg	0	84	167
	M.O.P	Kg	50 Kg	0	36	72
	19-19-19	Kg	2 Kg	3	4	6
III	Bio-Fertilizers					
	P.S.B	Kg	500 g	3	3	3
	Azospirillum	Kg	500 g	3	3	3
IV	Micronutrients					
	Formula-4	Kg	Kg	3	4	6
V	Plant Protection Chemicals					
	Chlorpyriphos 20% EC	Ltrs	500 ml	1	2	2
	Dichlorvas 76% EC	Ltrs	500 ml	1	1	1
	C.O.C. 50% WP	Kg	500 g	1	1	1
	Trizophos	Ltrs	500 ml	1	2	2
VI	Bio-pesticides					
	Trichoderma viridae / T. harzianaum	Kg	500 g	1	1	1
	Pseudomonas florescence 1x10 ¹⁰ cfu/gm	Kg	500 g	1	1	1

INPUT PACKAGE FOR T. C. BANANA PER ACRE

Spacing: 1.8 m X 1.8 m

No. of plants per Acre:1234

Sl. No.	Inputs	Unit	Pkg. size	1 st year	2 nd year
I	Organic Manures				
	Farm Yard Manure	Tonnes		7.0	7.0
	Vermicompost / City Compost	Kg	40 Kg	720	720
II	Water Soluble Fertilizers				
	0 : 52 : 34	Kg	50 Kg	59	50
	13 : 00 : 45	Kg	50 Kg	458	400
	Urea	Kg	50 Kg	337	300
III	Bio Fertilizers				
	P.S.B.	Kg	Kg	25	25
IV	Micronutrients				
	Formula – 4	Kg	Kg	4	4
V	Plant Protection Chemicals				
	Chlorothalonil 78.12%	Kg	500 g	0.5	0.5
	Propiconazol 25%	Lts	500 ml	0.5	0.5
	Fepronil	Lit	500 ml	2	2
	Carbofuran 3G	Kg	Kg	15	0
	Sticking Agent	Lit	500 ml	1	1

INPUT PACKAGE FOR PAPAYA PER ACRE

Spacing: 1.8 m X 1.8 m

No. of plants per Acre : 1234

Sl. No.	Inputs	Unit	Pkg. Size	1 st year	2 nd year
I	Organic manures				
	FYM	Tonnes		6	6
	Vermicompost / City Compost	Kg	40 Kg	1845	1845
II	Soluble fertilizers				
	0:52:34	Kg	50 Kg	100	100
	13:0:45	Kg	50 Kg	250	250
	Urea	Kg	50 Kg	550	550
III	Bio fertilizers				
	<i>T. viride, T. harzianum</i>	Kg	Kg	25	25
IV	Micro nutrients				
	Formula – 7	Kg	Kg	6	6
V	Bio pesticides				
	<i>Verticellium lecanii</i> WP	Kg	Kg	1	1
VI	PP chemicals				
	Imidachloprid 17.8% EC	Lts	250 ml	0.5	0.5
	Metalaxyl 8% + Mancozeb 64% WP	Kg	500 g	0.5	0.5
	Dichlorovas 76% EC	Lts	500 ml	0.5	0.5
	Chlorpyriphos 20% EC	Lts	500 ml	1	1
	Fepronil	Lit	500 ml	10.5	10.5
	Sticking Agent	Lts	500 ml	0.5	0.5

INPUT PACKAGE RECOMMENDED FOR SWEET ORANGE / KINNOW / MANDARIN (Per Acre)

Spacing: 6 m X 6 m

No. of plants per Acre : 111

Sl. No	Inputs	Unit	Packing size	1st year	2nd year	3rd year
I.	Organic Manures					
	Farm Yard Manure	Tonnes	--	2.5	1.5	2
	Vermicompost / City Compost	Kg	40 Kg	100	150	200
II	Inorganic Fertilizers					
	S.S.P.	Kg	50 Kg	160	120	180
	Urea	Kg	50 Kg	40	80	120
	M.O.P.	Kg	50 Kg	25	50	75
III	Bio Fertilizers					
	P.S.B.	Kg	Kg	6	6	6
	VAM	Kg	Kg	56	0	0
IV	Micronutrients					
	Formula - 4	Kg	Kg	2	3	4
	Formula - 7	Kg	Kg	10	14	20
V	Plant Protection Chemicals					
	Chlorophyriphos	Ltrs	500 ml	1	1	1
	Prophenophos / Trizophos	Ltrs	500 ml	0.5	0.5	0.5
	Dicofol/wettable sulphur/	Ltrs	500 ml	1	1	1
	C.O.C.	Kg	500 g	0.5	0.5	0.5

	Mancozeb	Kg	500 g	0.5	0.5	0.5
	Sticking Agent - Indetron	Ltrs	500 ml	1	1	1
VI	Bio Pesticides					
	Trichoderma	Kg	Kg	2	2	2
	Pseudomonas	Kg	Kg	2	2	2

INPUT PACKAGE RECOMMENDED FOR ACID LIME (Per Acre)

Spacing: 6.3 m X 6.3 m		No. of plants per Acre : 111				
Sl. No	Inputs	Unit	Packing size	1st year	2nd year	3rd year
I.	Organic Manures					
	Farm Yard Manure	Tonnes		2.5	1.5	2
	Vermicompost / City Compost	Kg	40 Kg	200	150	200
II	Inorganic Fertilizers					
	S.S.P.	Kg	50 Kg	160	120	180
	Urea	Kg	50 Kg	40	80	120
	M.O.P.	Kg	50 Kg	25	50	75
III	Bio Fertilizers					
	P.S.B.	Kg	Kg	6	6	6
	VAM	Kg	Kg	56	0	0

IV	Micronutrients					
	Formula - 4	Kg	Kg	2	3	4
	Formula - 7	Kg	Kg	10	14	20
V	Plant Protection Chemicals					
	Chlorpyrifos	Ltrs	500 ml	1	1	1
	Prophenophos	Ltrs	500 ml	0.5	0.5	0.5
	C.O.C.	Kg	500 g	0.5	0.5	0.5
	Mancozeb	Kg	500 g	0.5	0.5	0.5
	Streptocyclin	G	6 g	36	54	72
	Sticking Agent - Indetron	Ltrs	500 ml	1	1	1
VI	Bio Pesticides					
	Trichoderma	Kg	Kg	2	2	2
	Pseudomonas	Kg	Kg	2	2	2

INPUT PACKAGE FOR POMEGRANATE (5 m X 3 m) FOR ACRE

Spacing: 5 m X 3 m		No. of plants per Acre:160				
S.No	In Puts	Unit	Pkg. size	1st year (2015-16)	2nd year (2016-17)	3rd year (2017-18)
I	Organic Manures					
	Farm Yard Manure	Tones		3	5	5
	Vermi-compost / Neem Cake	Kg	40 kg	400	600	600
II	Inorganic Fertilizers					
	S.S.P	Kg	50 Kg	350	200	200
	Urea	Kg	51 Kg	125	255	255
	M.O.P	Kg	52 Kg	40	78	78
III	Bio Fertilizers					
	P.S.B	Kg	Kg	5	5	5
IV	Micronutrients					
	Zinc Sulphate (Soil Application)	Kg	10 Kg	10	10	10
	Boron (Borax 20%)	Kg	500 g	1	1	1
	Other Micronutrients based on soil testing report	Kg	Kg	10	10	10
V	Plant Protection Chemicals					
	Copper Sulphate 50% WP	Kg	Kg	4	4	4
	Lime (Lime sulphate)	Kg	5Kg	4	4	4
	Carbendazim 50% WP	Kg	250 g	1	0.5	0.5
	COC	Kg	Kg	1	2	2
	Fipronil 5% EC	Lit	250 ml	1	0.25	0.25
	Streptocyclin 10%	g	6 g	36	36	36
	Sticking Agent	Lit	500 ml	1	1	1
VI	Bio Pesticides					
	Trichoderma uiride / T.harzianaum	Kg	Kg	6	6	6
	Pseudomonas floescence 1x10 cfu/gm	Kg	Kg	6	0	0

HYBRID VEGETABLES CULTIVATION

Objectives:

- To ensure timely supply of vegetables all round the year.
- To supply quality vegetables.
- To replace traditional varieties of vegetables with hybrid varieties.

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.

PATTERN OF ASSISTANCE FOR HYBRID VEGETABLES PER HA

- The ADHs should identify the farmers from nearby villages surrounding the District Head Quarters.
- This activity should be taken up in clusters. Each cluster should be not less than 10 ha keeping in view of market potentiality.
- A farmer is eligible up to maximum extent of 2 ha.
- Identified farmers should be registered under HORTNET.
- 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.

S. No.	Item of work	Total Cost (in Rs.)	40% subsidy (in Rs.)
1	Hybrid vegetable seed / seedlings	7500	3000
2	INM	16000	6400
A	FYM		
B	Vermicompost		
C	Inorganic fertilizers / micro nutrients / bio fertilizers		
3	IPM	14000	5600
A	PP chemicals		
B	Organic (Bio pesticides)		
C	Phenomone traps	12500	5000
4	Shade net for nursery etc upto 250 sq.mt.@ Rs.50/- /Trellis/ Mulching / PP Equipment / Plastic crates.		
Total		50000	20000

- In case of general farmers the maximum subsidy limit is 40% where as in case of TSP areas i.e. in ITDAs the maximum subsidy limit is 50% of total cost.
- Genuine seed material may be obtained from the approved firms of the Department / KVK / NSC and Govt. agencies. The hybrid seedlings may also be obtained from nurseries registered under AP nursery act on subsidy basis.
- The clusters are to be formed into FPO's and infrastructure facility like Pre cooling unit, refer vans, collection grading centers, vending vans etc. under MIDH / RKVY may be created and tied up with market i.e. Rythu Bazars / housing colonies etc.
- **The cost of inputs (INM / IPM) towards eligible subsidy shall be released to farmer's bank account directly on physical inspection by concerned MPEO & HO and also on self certification by farmer and random inspection (25%) by ADHs.**
- The inputs (INM / IPM) required for the cultivation are as per the recommended doses given by the local scientists of Horticulture University.
- The expenditure on IPM / INM, over and above subsidies indicated are to be borne by farmer himself.
- The ADHs are not permitted to inter change the budget allocation between subcomponent and should claim the subsidy as per the indicators given for each component.
- **Under item no. 4, the farmers can be given any of the components i.e Shade net for nursery etc upto 250 sq.mt.@ Rs.50/- /Trellis/ Mulching / PP Equipment depending upon the need as per crop, feasibility and farmer's choice within the stipulated assistance of Rs 5000/-**
- **In case of components i.e Trellis/ Plastic crates the guidelines communicated by RKVY section should be followed and the assistance of Rs 5000/- should not exceeded.**
- **In case of Mulching, PP equipment, the guidelines and specifications communicated by MIDH section should be followed and the assistance of Rs 5000/- should not be exceeded.**

- The cost involved in components like preparation of land, planting, staking, labour cost and intercultural operations should be borne by the beneficiary.
- The Horticulture Officer is responsible for proper inspection, certification of invoice, and obtaining digital photograph of farmers along with material supplied on subsidy in their Jurisdiction and uploading in HORTNET.
- They should strictly follow the SC/ST allocations. Priority should be given to woman farmers and SHG groups for production of farming in clusters.
- The HO should record the data on production / productivity after adoption of latest technology in cluster by farmers.
- The farmers should encourage taking up staggered sowing to ensure continuous availability of vegetables.
- Subsidy will be released to the farmers directly through online HORTNET only.
- For obtaining higher production & productivities, it is mandatory that the vegetables gardens are to be integrated with Micro Irrigation, For the farmers who do not have MI, the farmers should register their name with **Mee seva**, under APMIP, for availing MI subsidies as per APMIP norms.

LOOSE FLOWERS CULTIVATION

Objective:

- To bring additional area under Loose Flowers like Jasmine, Chrysanthemum, Crossandra, Marigold and Lillies.

Sl. No.	Item	Max. permissible cost	Pattern of Assistance
Establishment of new gardens (Area Expansion)			
1	Flowers (For a maximum of 2 ha per beneficiary)		
	i) Loose Flowers	Rs. 40,000/ha	40 % of the cost for S&M farmers. 25% of cost to other category farmers in general areas. 50% of cost to TSP areas.

Roses, Jasmine, Chrysanthemum, Crossandra, Asters, Marigold

S.No.	Component	Total permissible Cost per Ha. (in Rs.)	40% subsidy for small and marginal farmers (in Rs.) per ha.	25% subsidy for other category farmers (in Rs.) per ha.	50% subsidy for TSP areas (ITDA areas) (in Rs.) per ha.
1	Plant Material	18000.00	7200.00	4500.00	9000.00
2	Inputs (INM/IPM)	22000.00	8800.00	5500.00	11000.00
Total		40000.00	16000.00	10000.00	20000.00

- The crops like Roses, Jasmine, Chrysanthemum, Crossandra, Asters and Marigold etc may be taken up under Loose Flowers cultivation in clusters.
- Maximum assistance limit under this programme is 2 ha per beneficiary.
- The cost of the plant material should be calculated on 40% of the total cost or the actual cost of the plant material whichever is less should be taken.

- Genuine plant material i.e. seeds / seedlings may be obtained from approved Govt. agencies / registered nurseries etc.
- Loose flowers cultivation should be taken up in a cluster approach keeping in view of the marketing facilities.
- Suitable INM/IPM practices may be advocated to farmers duly contacting the scientist of Horticulture University locally.
- Assistance pertaining to the inputs recommended by the local scientist shall be given to the farmers **in the form of cash on self certification of the farmer** for all the inputs and the subsidy amount to be transferred to farmers account as cash transfer through online transfer through HORTNET or through direct online.
- Ensure that the farmers apply fertilizers and pesticides as per the recommended doses given by the local scientists for increasing production and productivity.
- In case, the cost of plant material is more than the cost indicated in the input package, the eligible assistance should be limited to subsidy indicated in the package and differential amount is to be borne by the beneficiary.
- The expenditure on IPM / INM, over and above the assistance indicated is to be borne by farmer himself.
- The cost involved in components like preparation of land, planting, staking, labour cost and intercultural operations should be borne by the beneficiary.
- The details of the beneficiaries and documentation of the programme should be uploaded in the HORTNET and the release of subsidy will be through HORTNET or through direct online.
- The Horticulture Officer is responsible for proper inspection, certification of invoice, and obtaining digital photograph of farmers along with field photo on subsidy in their Jurisdiction.
- 100 % verification has to be done by the MPEO & Horticulture Officer and 25% verification has to be done by the respective ADHs.
- They should strictly follow the SC/ST allocations. Priority should be given to women farmers.
- **The gardens are to be integrated with Micro irrigation with APMIP. The farmers have to register their names in Mee Seva website for availing assistance for drip irrigation as per the norms of APMIP.**

2ND YEAR AND 3RD YEAR MAINTENANCE

- **The gardens that have 75% survival are only eligible for extending 2nd year maintenance. Gardens that have 90% survival are only eligible for extending 3rd year maintenance.**
- MPEO & Horticulture officer shall take up 100% inspection and 25% of the gardens by the ADH and report to the Commissioner of Horticulture in the month of May – June for ascertaining the survival.
- 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 their own to maintain 75% survival for 2nd year maintenance and 90% survival for 3rd year maintenance.
- 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.
- The beneficiary's details and documentation should be uploaded in the HORTNET.
- For 2nd and 3rd year, the assistance will be provided in the form of cash to the beneficiaries **on self certification** of the farmer through HORTNET / Online transfer as per details uploaded in the HORTNET.
- The expenditure on IPM / INM, over and above subsidies indicated are to be borne by farmer him/her self.

- The cost involved in components like preparation of land, planting, stacking, inter-cultivation operation should be borne by farmer only. No subsidy will be provided to labour component.

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

S. No.	Name of the crop	Plant Material	INM	IPM	Total Assistance
1	2	3	4	5	6
1	Mango (7.5 x 7.5 Mtrs.)	450	1800	410	2660
3	Sweet Orange (6 x6 Mtrs.)	840	2000	361	3201
4	Guava (3 x 3 Mtrs.)	2780	2000	1086	5866
5	Acid Lime (6x6 Mtrs.)	560	2000	641	3201
6	Pomegranate (5x5 Mtrs.)	1600	1800	440	3840
7	Banana	0	9000	1246	10246
8	Papaya	0	5000	1166	6166

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

S. No.	Name of the crop	Plant Material	INM	IPM	Total Assista nce
1	2	3	4	5	6
1	Mango (7.5 m x 7.5 m)	180	1980	500	2660
3	Guava (3x 3 m)	880	3978	1000	5866
5	Sweet Orange (6 m x 6 m)	336	2000	864	3200
7	Acid Lime (6 m x 6 m)	134	2202	864	3200
8	Pomegranate	965	4369		5334
9	Cocoa (3 m x 3 m)	87.5	1575	937.50	2600