

**IMPLEMENTATION GUIDELINES OF
OILPALM DEVELOPMENT PROGRAMME
UNDER NATIONAL MISSION ON EDIBLE
OILS – OIL PALM (NMEO – OP)**

FOR THE YEAR 2022-23



**GOVERNMENT OF TELANGANA
DEPARTMENT OF HORTICULTURE**

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Area Expansion of Oil palm under NMEO – OP 2022-23

I. Context/Background:

Oil Palm is a highest vegetable oil yielding perennial crop. Palm oil extracted from the fruit of the Oil Palm is a major edible oil produced in the world and accounts for 35 %of world edible oil production (2021-22). With quality planting material, irrigation and proper management, oil palm could produce 4-5 MT of palm oil per ha on attaining the age of 8-9 years in comparison to maximum of 1 tonne oil per ha from rape seed & mustard crops. In addition, oil palm has advantage of long life span of about 30 years. A substantial portion of country's requirement of edible oil is met through import of palm oil from Indonesia and Malaysia. More than 70% of our total vegetable oil import is palm oil.

Tentative

Telangana State is one of the potential states for Oilpalm cultivation in India. Under good agricultural practices with proper harvesting techniques, productivity of Oil palm may go up to 30-40 MT/ha with Oil Extraction Ratio (OER) up to 22%. Till 2020, an area of 1.25 lakh acres was notified by Government of India for Oilpalm cultivation in only (4) districts of the Telangana State i.e., Khammam, Kothagudem, Nalgonda and Suryapet. Considering the potentiality in Telangana for cultivation of Oil Palm with the increased irrigation facility, the Govt. of India has so far notified potential area of 3.29 lakh ha. (9.49 lakh acres) in (26) districts of Telangana. Further, the GOI has also permitted the Telangana state to take up Oil Palm area expansion all over the state (except Hyderabad) wherever assured irrigation sources are available.

The requirement of palm oil for the Telangana State is around 3.66 lakh MTs as against the state's production /availability of 0.45 lakh MTs. Gap in Palm Oil production in the state is 3.21 lakh MTs. To attain self-sufficiency in the state, an additional area of 2.50 lakh acres (1.00 Lakh Ha.) is required.

Considering the scope and opportunity for oil palm cultivation in the state, the Telangana government intends to take up oil palm in a mission mode as a part of crop diversification in cluster mode.

Goal of Telangana State Oil Palm mission is 20:20:20 i.e., 20 MTs of FFB per acre, 20% OER and FFB price of Rs.20,000/- per MT.

To promote oil palm cultivation in the country, the GOI has launched a new centrally sponsored scheme namely, “National Mission on Edible Oils-Oil Palm (NMEO-OP)” from 2021-22 to 2025-26 with a funding pattern of 60:40 between GOI & State. The aim of the Mission is to cover an additional 6.5 lakh hectares under Oil Palm in the country by the year 2025-26 and to ensure self-sufficiency in edible oil production in the country.

Under this mission, assistance will be provided for taking up new area expansion, maintenance of oil palm gardens & inter-cropping for the initial (4) years, Nursery management, Custom Hiring Centers, Capacity building for farmers & Department Officials, Farm Mechanization, Farm ponds etc.

II. Aims and objectives:

- To augment the availability of vegetable oils in the state.
- To cut down the import of edible oils by increasing domestic production and productivity of Oil palm.
- To promote crop diversification from less demanded crops like Paddy to Oil Palm which can give remunerative yields for as long as 25-30 with additional benefits of water saving / power saving / improving soil health / environmental benefit / assured income with main crop / regular income from inter crops and border crops.
- To achieve additional area under oil palm cultivation.

III. Approach:

- The scheme is executed through (11) Oilpalm companies in (26) notified districts.
- The Oil palm Cultivation and processing is regulated by *The Telangana Oil Palm (Regulation of Production and Processing) Act 1993 (Act No.3 of 1993). Annexed.*

IV. Role of various stakeholders

1. Role of the Department at State Level:

- i. Formulation of District wise and company wise Action plan and obtaining approval from the government.
- ii. Regular interaction with District Project Management committees.
- iii. Ensuring implementation of approved Action Plan duly coordinating with the companies and District officers.
- iv. Fixation of monthly FFB prices as per the norms.
- v. Monitoring establishment of oil palm nursery & factory by the Company in the allotted factory zone.

- vi. Guiding and supporting the Company in obtaining licenses / permits as required at state level.
- vii. Organizing / arranging to conduct awareness programmes and exposure visits to farmers and public representatives in coordination with the allotted company on all aspects of Oil palm Cultivation to get better yields.
- viii. Release of necessary funds to District officers / companies through SNA as per the guidelines as and when received from Government.
- ix. Regular Monitoring of implementation of scheme at field level through review meetings with DHSOs / Horticulture Officers and Oilpalm Companies.
- x. Preparation of state level progress report duly obtaining progress from time to time from the district officers as well as the oil palm companies.

2. Role of the Department at District Level

- i. Identification of beneficiaries for Oil palm area expansion preferably having assured irrigation in cluster mode and in co-ordination with Oil palm Company concerned.
- ii. Implementation of approved action plan for the district duly coordinating with the Project Management Unit (PMU) of the District, Oil palm companies & MI companies and duly following the implementation guidelines communicated by the state head office.
- iii. Inspection of nurseries of the oil palm Company from time to time and submission of reports to the state head office on the condition of the nursery, quality and quantity of seedlings etc.
- iv. Monitoring of scheme implementation at field level by conducting periodical meetings with Horticulture Officers and concerned Oil palm Company and Micro irrigation companies and appraise to the District Collector and PMU from time to time.
- v. Ensuring adoption of proper culling in the Oil palm nurseries and also ensuring distribution of quality planting material to the farmers by the Oil palm companies.
- vi. Conducting need based awareness programmes and exposure visits to farmers and public representatives in coordination with the allotted company on oil palm cultivation.
- vii. Monitoring of establishment of oil palm nursery and raising of plant material by the Company in the allotted factory zone.
- viii. Guiding and supporting the Company in obtaining licenses / permits required at district level.
- ix. Release of eligible assistance / funds to Oilpalm Company / farmers towards planting material / inputs/ inter-cropping and other components as per the guidelines as and when the funds received from Government.
- x. Submission of weekly / monthly progress reports to the state head office.

3. Role and responsibility of the Oil palm company:

- i. To implement the scheme in accordance with the provisions of section 11 of the Telangana Oil Palm (Regulation of Production and Processing) Act, 1993 (Act No.3 of 1993); and the rules made there under and to comply with the directions of the State Government from time to time
- ii. Establishment of Oil Palm nursery in the allotted factory zone.
- iii. Procurement of required oil palm seed sprouts (indigenous / imported) and raising them in their nurseries.
- iv. Identification of beneficiaries for Oil palm area expansion preferably having assured irrigation in co-ordination with Department officers.
- v. Deployment of required technical field staff for motivation and identification of farmers for Oil palm cultivation in cluster mode i.e., 200 acres in each village, assessment of soil and irrigation water suitability for Oil palm cultivation, soil and water sample collection wherever required, providing technical support to the farmers from time to time on layout, pit marking, plantation in the field, inter cropping, border plantation, application of fertilizers, ablation, harvesting etc.
- vi. Conducting awareness programmes to farmers in coordination with Horticulture Department on proper management practices and other issues to get better yields.
- vii. Conducting field level orientation programmes / exposure visits and disseminate technical know-how through literature / CDs/ audio-visual aids from time to time.
- viii. Providing technical guidance to Oil Palm growers for raising Oil Palm Plantation and maintenance of gardens and harvesting of quality Fresh Fruit Bunches (FFBs) and harvesting methods.
- ix. To organize and arrange need based credit facilities to oil palm growers in their factory zone through banks / cooperatives / firms etc.
- x. To supply quality oil palm planting material to the farmers and to complete the plantation as per the targets allocated without waiting for fund release.
- xi. To maintain the records and supply schedule and area to be covered with details of farmers to whom supplies are made.
- xii. To establish & commission a fully operational processing unit in the factory zone within 36 months of first plantation from date of plantation of first farmer in the allotted district.
- xiii. To establish collection centers once the plantations reach productive stage.
- xiv. Arranging for buy-back arrangement for Fresh Fruit Bunches from farmers for processing in the mills from 4th year onwards.

- xv. Release of monthly/fort-nightly payments to farmers through DBT as per the price fixed by the State Government.
- xvi. Providing farmer's diary for recording all activities viz., date of planting, application of manures and fertilizers, PP chemicals, inputs received and date of application, harvesting, yields etc.
- xvii. Ensuring compulsory visit of field officer to the all Oil palm gardens at weekly basis and recording his/her observations in the farmer's diary without fail.
- xviii. Maintaining year wise district wise data of the details of Oil palm farmers (i.e. land details / irrigation source / source of plant material (supplier details) / variety / date of plantation / yearly survival / Monthly FFB harvests etc.), along with photographs of orchards before and after plantation along with farmers and submit to the Department as and when called for.
- xix. Submission of Online reports and recording weather data in farmers filed time to time.

4. Oil palm Farmer:

- i. Take up oil palm cultivation as per the recommended cultivation practices for obtaining maximum potential yields from Oil palm and inter crops.
- ii. Taking up inter-crops and border crops for additional income.
- iii. To follow the schedule of harvesting given by the occupier of the factory and deliver at the collection center to which the village is tagged by the Oil palm Company.
- iv. Systematic layout and documentation of all activities of his Oil palm crop (viz., date of planting, date(s) of Ablation / application of manures and fertilizers / application of PP chemicals / harvesting of FFB etc.) in the diary provided by the Oil palm Company.

V. Implementation procedure:

- i. Wide publicity to be given in the districts on Oilpalm crop and scheme benefits through local print and electronic media etc.
- ii. Physical and financial targets shall be allocated to the districts based on the Action Plan approved by the GoI and communicated to both districts and oil palm companies from state head office.
- iii. The District Collector shall approve the District plan and accord sanctions for taking up of plantation in cluster mode and installation of Micro irrigation.
- iv. Identification of beneficiaries for Oil palm area expansion preferably having assured irrigation by the district officers in co-ordination with Oil palm Company concerned . DAOs concerned

- v. The District Administration shall issue administrative sanction for availing assistance for plant material, micro irrigation and other components as required.
- vi. As per the sanctions, the processors who are allotted with factory zones / districts will carry out oil palm area expansion operations by supplying plant material to the approved beneficiaries.
- vii. Due preference shall be given to SF/MF (@ 33%), SC & ST (@ 15.45%), STs (@ 9.08%) and Women (@ 30%) as per the norms in selection process.
- viii. Ensure Oil palm plantation is integrated with Micro Irrigation subject to eligibility as per TSMIP guidelines.
- ix. Digital Photographs (with date) at various stages viz. installation of micro irrigation system, Planting of Oil palm crop, Oil palm plantation with inter crop etc., shall be documented by the CLH&SO.
- x. Encouraging intercropping in all Oilpalm plantations with region specific intercrop as they contribute to soil fertility and additional income during gestation period. District Wise and Season wise suitable intercrops in Oilpalm plantations is annexed (**Annexure-VII**).
- xi. Assistance on maintenance and inter-cropping in Oil palm gardens to farmer shall be done through DBT mode by obtaining bills / declaration from the farmers as the case may be with due certification from the HO concerned.**
- xii. The CLH&SO concerned should maintain village wise, mandal wise data of Oil palm beneficiaries in their jurisdiction (i.e. farmer wise land details/ irrigation source / source of plant material /variety/ date of plantation/ non subsidy particulars/details of assistance released towards maintenance and intercrop / yearly FFB harvested etc.), along with photographs of orchards before and after plantation along with farmers and submit to the inspecting officers as and when called for.
- xiii. Providing literature to farmers on recommended package of practices.
- xiv. Both DH&SO and Oil palm Company should submit weekly /monthly progress reports or as required to the Director of Horticulture, TS, Hyd. in prescribed formats as communicated.
- xv. DH&SO/CLH&SO should encourage farmers to take up boundary plantation with Teak / Sandal wood / Casuarina to maintain humidity and for additional income.
- xvi. The DH&SO should maintain data of Oil palm beneficiaries in their district (i.e. farmer wise land details / irrigation source / source of plant material / variety / date of plantation/ non subsidy particulars / details of assistance released towards maintenance and intercrop / yearly FFB harvested etc.).
- xvii. DH&SO/CLH&SO should maintain photographs of all activities of individual farmers both soft and hard copies in separate folders.

VI. Government present assistance for Oil Palm Area Expansion under NMEO-OP:

To encourage the farmers towards Oil Palm cultivation, assistance is being provided on planting material, maintenance cost, intercropping, machinery tools etc., as per the indicative guidelines under Centrally Sponsored Scheme - **National Mission on Edible Oils – Oil Palm (NMEO-OP)** on 60:40 funding pattern by central and state governments respectively. The details are as follows.

S. No	Components		Pattern of assistance (in Rs.)
1	Planting Material / Seedlings (@Rs.150/- per plants per Hac)	Indigenous	Rs.20,000/ha
		Imported	Rs.29,000/ha
2	Management up to gestation period	For initial four years	Rs.5250/ha /yr
3	Inputs for intercropping		Rs.5250/ha /yr
4	Establishment of Seed Gardens (capacity 10 Lakh seedlings per year)		Rs.40.00 lakh/unit (one time grant)
5	Nurseries for 10 Ha (capacity 1 lakh seedlings)		Rs.40.00 lakh/unit
6	Bore wells / Pump sets / water harvesting structure/ vermi compost unit		As per MIDH guidelines
7	Harvesting tools		
	a. Cutter		Rs.2500/ unit
	b. Motorized chisel		Rs.15,000/ unit
	c. Portable ladder/poles		Rs.5000/ unit
	d. Chaff Cutter		Rs.50,000/ unit
	e. Tractor Trolley		Rs.2.0 lakh/ unit
8	Custom hiring centre cum Harvester Groups		Rs.25.00 lakh per unit
9	Farmers training		Rs.30,000/- per batch
10	Officers training		Rs.40,000/- per batch
11	Replanting of old Oil palm garden		Rs.250/- per plant

***Subsidy will be calculated as per the actuals on the field.

1. Planting Material Assistance:

- i. **Quality of planting material:** Quality of planting material greatly determines the production & productivity. The success of the crop and potential yield can be achieved only with the use of good planting material coupled with proper management practices.

10-12 months old healthy seedlings with 1-1.2 m height, 20 - 25 cms girth and with 12 healthy functional leaves are ideal for planting.

- ii. **Planting method and Plant density:** Square method of planting with 9m x 9m spacing to accommodate 50 plants per acre.
- iii. **Permissible assistance:** Maximum permissible assistance is limited to Rs.9,650/- per acre for imported seedlings and Rs.6,650/- per acre for indigenous seedlings. Details as follows.

Sl. No.	Particulars	Type of seedlings	
		Imported	Indigenous
1	Per plant assistance	Rs.193/-	Rs.133/-
2	Farmer contribution per plant	Rs.20/-	Rs.20/-
3	No. of plants per acre	50 Nos	50 Nos
4	Total assistance per acre	Rs.9,650/-	Rs.6,650/-

- iv. The cost involved in components viz., preparation of the land, digging pits, planting and intercultural operations etc. shall be borne by the beneficiary.
- v. **Beneficiary contribution:** Farmer has to pay an amount of **Rs.20/- per seedling** to the department towards “**Oil Palm Risk Mitigation Fund**” (OPRMF). The DH&SO / Horticulture officer shall collect the OPRMF from the farmers and keep in Non subsidy account available with DH&SO. The same shall be remitted to the head office as per instructions issued by Director of Horticulture from time to time.
- vi. **Maximum eligibility:** up to entire land holding of the farmer.
- vii. Pre-sanction inspection of the fields proposed for Oilpalm Area Expansion by the CLH&SO / MLH&SO concerned along with the representative of Oil palm Company shall be done for ascertaining assessment of soil suitability and the availability of quality irrigation water facility.
- viii. The Oil Palm Company shall arrange for analysis of soil and irrigation water of the beneficiary before sanction of the scheme (if required) and also arrange for time to time leaf sample analysis for proper nutrition of oil palm gardens.
- ix. The DH&SO / OP Company shall ensure for installation of MI system in the farmer field as per the TSMIP guidelines.
- x. Cluster Level Horticulture & Sericulture Officer (CLH&SO) concerned should collect application from the identified beneficiaries in the format prescribed (**Annexure-I**) along with farmer contribution (i.e., OPRMF amount) and all necessary documents viz., Proof of Ownership of land, Copy of Aadhar card, Copy of Bank pass book, any other as required and submit to the DH&SO.
- xi. District Horticulture and Sericulture Officer (DH&SO) shall obtain the approval of District Collector and issue administrative sanction to the identified farmers upon receipt of application in his/her office without any delay.
- xii. All activities to be completed in stipulated time lines.

- xiii. While enclosing administrative sanction proceedings along with the list of identified farmers for Oil palm Area expansion under NMEO-OP 2022-23 and who have installed MI system in their proposed field for oil palm, the DH&SO shall address the Oil palm Company for supply of quality planting material to the farmers within 07 days of communication of sanction proceedings. A copy of the same should be given to the concerned beneficiaries through the CLH&SO concerned. The beneficiary list should be in the following format

Sl. No	Name of the farmer	Father / Husband Name	Village	Mandal	Caste	Survey No.	Area sanctioned in Acres	No. of Seedlings to be supplied	Type of seedlings (Imported/indigenous)	Cost of each seedling (Rs.)	Total cost of the seedlings (Rs.)	Subsidy amount (Rs.)	Beneficiary Contribution paid (Rs.)	Contact No.	AADHAR No.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

- xiv. The company shall arrange mark out for pitting in the farmers field as per the list of beneficiaries communicated by the DH&SO within (03) days from issue of administrative sanction. The farmers shall complete pitting within (04) days from mark out.
- xv. The Oil Palm company shall arrange for supply of quality planting material to the farmers within (07) days immediately after completion of pitting and drip installation.
- xvi. Photographs of installation of micro irrigation system and planting of Oil palm plants shall be documented as per TSMIP guidelines.
- xvii. The DH&SO/CLH&SO shall regularly follow up with the farmers till the plantation is completed.

Disbursement of Planting Material Assistance:

- xviii. After supply of planting material, the Oil Palm Company shall submit beneficiary wise plant material invoices (duly signed by the farmer concerned) to the DH&SO concerned.
- xix. The Companies shall clearly indicate in the bill / invoice, whether the plant material is indigenous or imported and the DHSOs shall cross check the same with the registers maintained by the Companies in the nurseries.
- xx. The DH&SO shall direct the CLH&SO concerned for inspection of each and every farmer field, take **farmer acknowledgement** in prescribed format (**Annexure-II**), take photograph of the field along with farmer, certify the plant material invoice(s) and submit to the DH&SO along with his/her **field inspection report (Annexure-III)**, for release of concerned subsidy amount to the company.
- xxi. The DHSOs shall send proposals to the state Head office for release of funds with the approval of District Collector.

- xxii. Upon receipt of funds, the DH&SO / State Head Office shall release concerned plant material subsidy amount to the company through PFMS or as per the guidelines issued from time to time.
- xxiii. Budget is released to the concerned towards eligible assistance on planting material, for maintenance & inputs for inter-cropping through PFMS/or any other procedure as prescribed by Govt.
- xxiv. The DH&SO shall inspect 100% of farmer's fields.
- xxv. Beneficiaries' record must be maintained by Oil palm Company, CLH&SO and the DH&SO in prescribed format as given below.

Sl. No.	Name of the farmer	Father / Husband Name	Village	Mandal	Caste	Survey No.	Area planted in Ha	Variety name	Geo-coordinates of the field	Date of planting	Planting material /Seedlings details					Contact No.	AADHAR No.
											Invoice No. &Dt:	No. of Seedlings	Total cost of the seedlings	Subsidy amount	Beneficiary Contribution		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

- xxvi. Work flow & check list for documents to be submitted for availing subsidy for planting material

Sl. No.	Description	Responsibility of
1	Identification of beneficiary and field inspection	Oil Palm Company & CLH&SO / DHSO
2	Assessment of soil suitability & availability of assured irrigation water	CLH&SO & Oil Palm company
3	Collection of Application Form along with farmer contribution (i.e., OPRMF amount) and all necessary documents.	CLH&SO
4	Preliminary inspection and preparation of BOQ for MI system	MI Company & CLH&SO
5	According sanction for MI system and arranging for installation of MI system in farmers field duly following prescribed guidelines of TSMIP	DH&SO & MI Company
6	Issue of Administrative Sanction for Oil palm area expansion under NMEO-OP with due approval of District Collector	DH&SO

Sl. No.	Description	Responsibility of
7	Layout and Marking in farmers field	Oil Palm company
8	Digging of pits as per the marking given by the OP company	Farmer / OP company
9	Supply of quality planting material to the farmers field with their own transportation cost	Oil Palm company
10	Planting in the field with the guidance of OP Company.	Farmer
11	Submission of bills / invoices	Oil Palm company
12	Field inspection after planting and submission of report along with farmer acknowledgement towards receipt of good quality planting material	CLH&SO
13	Submission of proposals for release of funds with the sanction approval of District Collector.	DH&SO
14	Release of funds to DH &SO / Company subject to release of funds from Government.	Head Office

2. Assistance towards Management of Plantations up to gestation period:

- Oil Palm starts economic production of Fresh Fruit Bunches (FFBs) from 4th year of its plantation; therefore, it becomes essential to maintain the plantation during pre-bearing period.
- Fertilizer management:** Oil Palm is a heavy feeder and demands a balanced and adequate supply of macro, secondary and micronutrients for growth and yield. It is advised to apply fertilizers at every three months interval.

Quantity: (gms / palm / year)

Age of the plant	Nitrogen as		Phosphorus as			Potassium as	Magnesium as	Boron as
	Urea	Ammonium Sulphate	DAP	SSP	Rock Phosphate	MOP	MgSO ₄	Borax
1 st Year	870 (or)	2000	-	1250 (or)	1000	667	125	25
	700 (or)	1610	435	-	-	667	125	25
2 nd Year	1740 (or)	4000	-	2500 (or)	2000	1333	250	50
	1400 (or)	3215	870	-	-	1333	250	50
3 rd Year onwards	2610 (or)	6000	-	3750 (or)	3000	2000	500	100
	2100 (or)	4825	1305	-	-	2000	500	100

- The recommended doses are to be divided into 4 splits and applied at 3 months interval.
- In new plantations, fertilizer application needs to be started (3) months after planting.

- v. Application of FYM @ 50 kg per palm per year would improve the soil structure and thereby water holding capacity.
- vi. FYM shall be applied at the time of second dose of fertilizer application.
- vii. **Fertigation** shall be advised to the farmers as the nutrients and water reaches the active root zone for uniform distribution and absorption and as such saves the cost on fertilisers, labour and time required and there is a possibility of getting higher productivity per unit area.

Fertigation Schedule for Oil Palm

Age of Plantation	Fertilizer recommendation Kg Per Acre Per Year				
	<i>Urea</i>	<i>DAP</i>	<i>MOP</i>	<i>MgSO₄</i>	<i>Borax</i>
1 st Year	20	12	20	5	1
2 nd Year	30	18	30	7.5	1.5
3 rd Year & Above	60	36	60	15	3

Age of Plantation	Fertilizer recommendation Per Acre Per Month				
	<i>Urea(Kg)</i>	<i>DAP(Kg)</i>	<i>MOP(Kg)</i>	<i>MgSO₄(Gms)</i>	<i>Borax(Gms)</i>
1 st Year	1.67	1.00	1.67	400	85
2 nd Year	2.50	1.50	2.50	625	125
3 rd Year & Above	5.00	3.00	5.00	1250	250

- viii. Oil Palm Company, the DH&SO / CLH&SO should guide the farmers for application of recommended fertilizers as shown above.
- ix. **Pattern of Assistance:** 50% of the maintenance cost as assistance towards purchase of manures, fertilizers and PP chemicals etc., up to gestation period with a ceiling of Rs.5,250/- per ha per year (i.e., Rs.2,100/- per acre per year) for 4 years from 1st to 4th year of plantation. Total amount of assistance over a period of 4 years is Rs.21,000/- per ha i.e., Rs.8,400/- per acre.
- x. **Maximum Eligibility:** Entire Oil Palm plantation area of the farmer
- xi. For claiming 2nd year, 3rd year and 4th year maintenance cost, the beneficiary must maintain **100% survival** of the plants without any gaps. In case of any casualty, the beneficiary shall procure seedlings from the concerned company duly paying full cost.
- xii. CLH&SO should collect separate application form from the farmer in prescribed format (**Annexure-IV**).

Disbursement of Management inputs Assistance:

- xiii. Assistance amount towards Management of Plantations from 1st year to 4th year shall be disbursed **to the farmer** in the form of cash through PFMS / online NEFT transfer duly taking a Self Declaration (రైతు దృవీకరణ పత్రము) from the farmer in prescribe format (Annexure-V).

- xiv. The CLH&SO/MLH&SO concerned shall inspect the field of each and every farmer, take field photograph along with farmer, satisfy with the application of fertilizers by the farmers duly checking the bills etc., and obtain application in the prescribed format (**Annexure-IV**) along with **Self Declaration (రైతు దృవీకరణ పత్రము)** from the farmer towards purchase of required inputs for Oil palm crop cultivation and submit to the DH&SO office along with his/her filed inspection report (in **Annexure - VI**) duly recommending for release of assistance amount towards maintenance cost.
- xv. Before release of respective assistance amount on maintenance cost, the DH&SO should randomly inspect at least 50% of farmers fields and satisfy with the growth of the Oil Palm crop.

3. Inputs for Intercropping

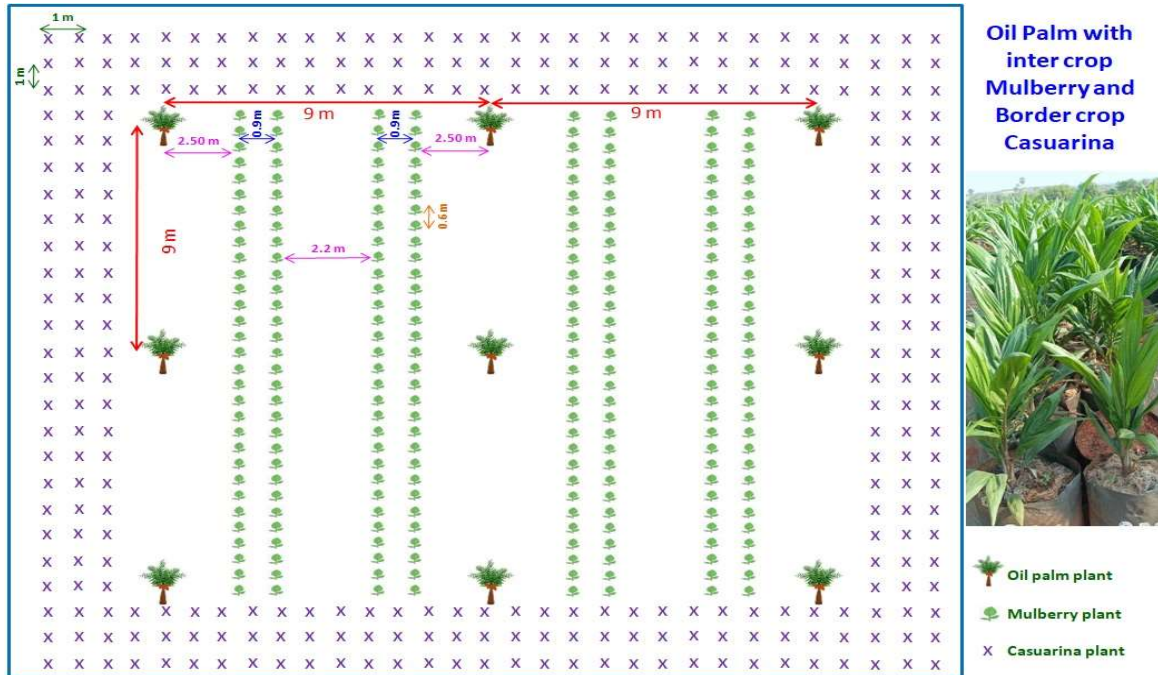
- i. Oil palm is a wide spaced perennial crop with a long juvenile period of 3 years. Inter and intra row space can be used to generate income during the juvenile phase of the crop.
- ii. Inter crop selected should be compatible with the main crop and should not compete with Oil Palm for light, water and nutrients. Any remunerative crop can be grown except paddy. District Wise and season wise suitable intercrops in Oil Palm plantations is enclosed (**Annexure-VII**)
- iii. While growing inter crops in mature Oil Palm gardens of 8- 12 years age or palms attained a height of 3 meters, intercrops should be able to grow under partial shade conditions and should not compete with oil palm for water, sunlight and nutrients (eg. Cocoa / Pepper / Heliconia / Red Ginger / Bush pepper / Fodder grass).
- iv. Do not cut the oil palm fronds. Do not tie oil palm fronds close to the stem for intercropping, which will reduce photosynthetic activity. Do not plough close to the palm base, which will cut the absorbing roots and thereby reduce intake of water and nutrients. Maximum number of green leaves should be retained on the palm.
- v. Plant basins must be covered with green crop cover like Sunhemp for better maintenance of humidity in the field. Always humidity to be maintained.
- vi. The CLH&SO should collect separate application form the farmer in prescribed format (**Annexure-IV**).
- vii. **Pattern of Assistance:** 50% of the inter crop cultivation cost is given to farmers as assistance towards purchase of inputs for inter crop cultivation i.e seeds, manures, fertilizers and PP chemicals etc., up to gestation period with a ceiling of Rs.5,250/- per ha per year (i.e., Rs.2,100/- per acre per year) for 4 years from 1st to 4th year of plantation. Total amount of assistance over a period of 4 years is Rs.21,000/- per ha i.e., Rs.8,400/- per acre.
- xvi. **Maximum Eligibility:** Entire Oil Palm plantation area of the farmer.

Disbursement of Inter crop Assistance:

- viii. Assistance amount on Inputs for intercropping from 1st year to 4th year shall be disbursed **to the farmer** through PFMS / online NEFT transfer duly taking a **Self Declaration (రైతు దృవీకరణ పత్రము)** in prescribed format (**Annexure-V**) from the farmer.
- ix. The CLH&SO/MLH&SO concerned shall inspect the field of each and every farmer, take field photograph along with farmer and obtain application in the prescribed format (**Annexure-IV**) along with **Self Declaration (రైతు దృవీకరణ పత్రము)** from the farmer towards purchase of required inputs for inter crop cultivation in Oil palm plantation and submit to the DH&SO office along with his/her filed inspection report (in **Annexure – VI**) duly recommending for release of assistance amount towards inter crop cultivation.
- x. Before release of amount towards intercrop assistance, the DH&SO should randomly inspect at least 50% of farmers fields and satisfy with the growth of both the main crop and the intercrop.

Note: Farmer application form (**Annexure-IV**), Farmer Self declaration (**Annexure-V**) and CLH&SO inspection report (**Annexure-VI**) is **common** for both components i.e., Assistance towards Management of Plantations and Assistance towards inter crop cultivation

Oil Palm - Casuarina - Mulberry Model



Economics - Expected Yields & Income per acre

Crop	Particulars	Yield	Income
Main Crop - Oil palm	50 plants per acre ; Harvesting from 4 th yr onwards.	8-10 tons FFB per ac per year	Rs. 1.20 lakhs to Rs. 1.50 lakhs per ac per yr. @ Rs.15,000/Ton Rs.30 lakhs - 37 lakhs in 25 years.
Intercrop – Mulberry (initial 3 yrs)	3630 plants per ac. 675 DFLs in 5 crops per year @ 135 DFLs per crop.	540 kgs cocoons per ac per year	Rs.1.56 lakhs per ac per yr @ Rs.400 per kg cocoons. Rs. 4.68 lakhs per ac in (3) yrs.
Border crop - Casuarina (upto 25 years)	3 rows along the border; 1500 plants per ac; Harvesting at 2 and 1/2 yrs age.	75 MTs per ac @ 50 Kg per plant. Total 600 MTs per ac @ 8 crops in the life span of 25 years of Oil palm Crop	Rs. 2.25 lakhs per acre for every 3 yrs. Rs.18 lakhs in 25 yrs life span of Oil palm Crop

VII. Action Plan - 2022-23

Component wise Physical and financial targets under NMEO-OP for 2022-23 is enclosed at **Annexure-VIII**.

VIII. Monthly Progress Report Format - 2022-23

Component wise Monthly Progress Report format to be furnished by the DHSOs concerned by 5th of every month duly signed is enclosed at **Annexure-IX**

Sd/- L. Venkatram Reddy
Director of Horticulture

ANNEXURE – I
APPLICATION FORM
Oil palm Area Expansion under NMEO-OP
(To be collected from the beneficiary)

Passport size
Photograph of
the applicant

District: _____

CLH&SO Head Quarter: _____

-
1. Name of the Farmer :
 2. Father's/Husband's Name :
 3. Caste (SC/ST/BC/Others) :
 4. Gender (Male/Female) :
 5. H. No. :
 6. Village (where land is located) :
 7. Mandal (where land is located) :
 8. District (where land is located) :
 9. PIN Code (where land is located) :
 10. Tel. No./ Mobile. No. :
 11. Aadhar No. :
 12. Patta pass book No. :
 13. Total Area of Land owned in Acres. :
 14. Irrigation Sources (Borewell/Openwell) :
 15. Crops cultivated previously in the said land :
 16. Area proposed for Oil palm cultivation (Acres) :
 17. Survey No(s). of the area proposed for Oil palm:
 18. GPS coordinates of proposed site :
 19. Method of plantation : Square / Triangular
 20. Spacing :
 21. No. of plants required for proposed area :
 22. Whether MI system installed in the field : Yes/No.
 23. Name of the MI Company :
 24. If yes. Area of MI system (Acres) :
 25. Beneficiary contribution details :
(Amount, DD No. Date etc.)

26. Farmer Bank Account Details:

- a. Name of the Bank/Branch :
- b. Bank Account No. :
- c. IFSC Code :

Date:-----

Signature of the Applicant

(NAME IN CAPITALS)

Certificate

This is to certify that, the above details given by the farmer are correct and are satisfactory. The farmer is having assured irrigation source and his / her soil is suitable for oil palm cultivation in _____ acres in _____ Sy. Nos. The farmer has installed MI system for the proposed area of _____ acres. The farmer has submitted all the necessary documents as prescribed in the implementation guidelines 2022-23.

Documents enclosed:

- True copy of pass book/proof of ownership of the land. : Yes/No
- Copy of Aadhar card. : Yes/No
- Copy of the bank account details showing IFS code. : Yes/No

Signature of the Company Representative

Signature of the CLH&SO with stamp

Name of the person:

Name of the person:

Name of the Company:

Name of the Head quarter:

ANNEXURE – II
Farmer Acknowledgement
(For receipt of Oil palm seedlings)

Received _____ No. of good quality Oil palm seedlings belonging to the variety _____ from the company M/s. _____ from Nursery _____ on date: _____ and completed plating on Dt: _____ in Sy. No. _____ in _____ Ha. as per the guidance of Horticulture Officer.

Date:-----

Signature of the farmer

Name

Village

Mandal

Dist.

PPB No.

ANNEXURE – III
CLH&SO Inspection report

This is to certify that, the farmer Sri./ Smt. _____ Village _____, Mandal _____, District _____ has lifted healthy good quality Oil palm seedlings / planting material from _____ Nursery on Dt: _____ in the vehicle No. _____ and planted in the Sy. No. _____ in _____ Acres on Dt: _____.

I have visited the Oil palm field of the above farmer on Dt: _____ and the entire plantation is in good condition.

Hence, I recommend to release the concerned subsidy amount of Rs. _____/- (Rupees _____ only) to the company.

Enclosures:

1. Digital photograph of lifting of plants
2. Field Photograph along with farmer
3. Certified invoice.

Signature of the CLH&SO with stamp

Name of the person:

Name of the Head quarter:

ANNEXURE – IV
APPLICATION FORM

Passport
size
Photograph
of the
applicant

**Management of Oil palm plantations up to gestation period &
Inputs for Intercropping in Oil palm plantations**

_____ Year plantation; Financial year: _____;

District: _____ CLH&SO Head Quarter: _____

-
1. Name of the Farmer :
 2. Father's/Husband's Name :
 3. Caste (SC/ST/BC/Others) :
 4. Gender (Male/Female) :
 5. H. No. :
 6. Village (where land is located) :
 7. Mandal (where land is located) :
 8. District (where land is located) :
 9. PIN Code (where land is located) :
 10. Tel. No./ Mobile. No. :
 11. Aadhar No. :
 12. Patta pass book No :
 13. Oil palm plantation area in Acres. :
 14. Survey No(s). :
 15. GPS coordinates the site :
 16. Oil palm plantation year :
 17. Age of the plantation :
 18. No. of plants planted :
 19. No. of plants survived :
 20. Percentage of survival :
 21. Name(s) of the border crops cultivated :
 22. Name(s) of the inter crops cultivated :

23. Area of the inter crop(s) (in acres) :
cultivated in oil palm plantation:
24. Eligible assistance towards ____ Yr maintenance (Rs.):
(@ of Rs.2100/- per acres for _____ acres)
25. Eligible assistance towards inter crop(s) cultivation (Rs.):
(@ of Rs.2100/- per acres for _____ acres)
26. Total eligible assistance amount (Rs.) :
27. Farmer Bank Account Details:
- a. Name of the Bank/Branch :
 - b. Bank Account No. :
 - c. IFSC Code :

Date:-----

Signature of the Applicant

(NAME IN CAPITALS)

HO Certificate

This is to certify that, the above details given by the farmer are correct and are satisfactory.

Signature of the CLH&SO with stamp

Name of the person:

Name of the Head quarter:

Annexure-V
రైతు దృవీకరణ పత్రము (Self Declaration)

దృవీకరించునది ఏమనగా, నేను శ్రీ/శ్రీమతి _____ తండ్రి/భర్త _____
గ్రామము: _____ మండలము: _____, జిల్లా: _____ కు చెందిన
నేను (PPB No. _____) 2022-23 ఆర్థిక సంవత్సరములో NMEO-OP
స్కీములో భాగంగా సర్వేనెం. _____ లో _____ ఎకరములలో
_____ సంఖ్య మొక్కలు నాటి ఆయిల్ పామ్ పంట సాగు చేస్తున్నాను. ఇట్టి ఆయిల్
పామ్ తోటలో జిల్లా ఉద్యాన అధికారుల సూచనల మేరకు సిఫారసు చేసిన ఎరువులు
వేస్తూ _____ ను అంతర పంట గా వేసి మేలైన సాగుయజమాన్య పద్ధతులు
పాటిస్తూ 100% ఆయిల్ పామ్ మొక్కలను కాపాడుకొంటున్నాను.

కావున, ఎరువులు / పురుగుమందులు మరియు అంతర పంటల సేధ్యం కొరకు
నిర్దేశించిన సంబంధిత రాయితీ మొత్తము రూ. _____/- ను కింద చూపిన నా
బ్యాంకు ఖాతాకు RTGS ద్వారా అందజేయగలరని మనవి.

- ఖాతాదారుని పేరు :
- అకౌంట్ నెంబరు :
- బ్యాంకు పేరు :
- బ్రాంచ్ పేరు :
- IFS Code :

ఆయిల్ పామ్ మరియు అంతర పంట సాగు దృవీకరణ Photo ను జతపరుస్తూ
దృవీకరించుచున్నాను.

రైతు సంతకము
తేది. _____

ANNEXURE – VI
CLH&SO Inspection report

This is to certify that, the farmer Mr./ Mrs. _____
Father/Husband _____ belonging to Village: _____ Mandal:
_____, District: _____ has taken up Oil palm plantation in
the Financial Year _____ in _____ acres duly planting _____ No. of plants
@ _____ plants per acre in Sy. Nos _____

I have visited the Oil palm field of the said farmer on Dt: _____
and observed that all the plants has survived (100% survival) as per the technical
standards. The farmer has cultivated _____ as inter crop in _____ acres of
Oil palm plantation during _____ season. The self-declaration form
submitted by the farmer and field inspection digital photograph (with date & time)
are herewith enclosed.

Hence, I recommend to release the subsidy amount of Rs. _____/-
(Rupees _____ only) to the farmer as per the details shown
below.

- i) Eligible assistance towards ____ Yr maintenance (Rs.) _____ :
(@ of Rs.2100/- per acres for _____ acres)
- ii) Eligible assistance towards inter crop(s) cultivation (Rs.):
(@ of Rs.2100/- per acres for _____ acres)

Enclosures:

1. Digital Field Photograph (with date & time) along with farmer
2. Farmer Self Declaration (రైతు దృవీకరణ పత్రము)

Signature of the CLH&SO with stamp

Name of the person:

Name of the Head quarter:

Date:

Annexure VII
District Wise and Season wise suitable intercrops in Oil Palm plantations

S.No	District	Boundary plantation per No. of plants acre			Inter crop at the Area left over between main plantation of oil palm									Other options
		TC Teak	Sandal wood	Casuarinas (3 rows)	Kharif			Rabi			Summer			
1	Nizamabad	50	50	1500	Red gram	Soya bean	Turmeric	Maize	Bengal gram	Sesamum, Onion	Sesamum	Green gram	Vegetables / Groundnut	1. Mulberry / Guava / Banana. 2. Any other local preference crops. 3.Perennial grass for dairy farm. 4. Super Napier / Stylo/ Any legume / Hedge lucerne
2	Kamareddy	50	50	1500	Red gram	Soya bean	Blackgram	Maize	Bengal gram	Jowar, Onion	Sesamum	Green gram	Vegetables / Groundnut	
3	Siddipet	50	50	1500	Red gram	Green gram	Blackgram	Maize	Bengal gram	Sunflower, Onion, Potato	Sesamum	Green gram	Vegetables / Groundnut	
4	Mahabubnagar	50	50	1500	Red gram	Castor	Sesamum	Groundnut	Onion	Onion	Sesamum	Green gram	Vegetables / Groundnut	
5	Nagarkurnool	50	50	1500	Red gram	Castor	Chillies	Groundnut			Sesamum	Green gram	Vegetables / Groundnut	
6	Wanaparthy	50	50	1500	Red gram	Castor	Groundnut	Groundnut	Bengal gram	Black gram	Sesamum	Green gram	Vegetables / Groundnut	
7	Gadwal (Jogulamba)	50	50	1500	Red gram	Groundnut	Chillies	Groundnut	Bengal gram	Maize	Sesamum	Green gram	Vegetables / Groundnut	
8	Narayanpet	50	50	1500	Red gram	Castor	Greengram	Groundnut			Sesamum	Green gram	Vegetables / Groundnut	
9	Nalgonda	50	50	1500	Red gram	Chillies	Blackgram	Groundnut			Sesamum	Green gram	Vegetables / Groundnut	
10	Suryapet	50	50	1500	Red gram	Green gram	Chillies	Groundnut	Cow pea		Sesamum	Green gram	Vegetables / Groundnut	
11	Warangal (Rural)	50	50	1500	Turmeric	Chillies	Groundnut	Groundnut	Chillies	Maize	Sesamum	Green gram	Vegetables / Groundnut	
12	Warangal (Urban)	50	50	1500	Turmeric	Redgram	Greengram	Groundnut		Maize	Sesamum	Green gram	Vegetables / Groundnut	
13	Jayashankar	50	50	1500	Turmeric	Green gram		Groundnut	Bengal gram	Horse gram	Sesamum	Green gram	Vegetables / Groundnut	
14	Jangaon	50	50	1500	Red gram	Green gram		Groundnut	Chillies	Cow pea	Sesamum	Green gram	Vegetables / Groundnut	
15	Mahabubabad	50	50	1500	Greengram	Chillies	Turmeric	Groundnut	Chillies	Maize	Sesamum	Green gram	Vegetables / Groundnut	
16	Mulugu	50	50	1500	Red gram	Green gram	Turmeric	Greengram	Bengal gram	Chillies	Sesamum	Green gram	Vegetables / Groundnut	
17	Khammam	50	50	1500	Chillies	Green gram	Redgram	Maize	Ground nut	Chillies	Sesamum	Green gram	Vegetables / Groundnut	
18	Badradi kothagude	50	50	1500	Chillies	Redgram	Greengram	Maize	Ground nut	Chillies	Sesamum	Green gram	Vegetables / Groundnut	
19	Karimnagar	50	50	1500	Red gram	Green gram	Turmeric	Maize	Ground nut	Bengal gram	Sesamum	Green gram	Vegetables / Groundnut	
20	Jagityal	50	50	1500	Turmeric	Soya bean	Redgram	Sesamum	Maize	Groundnut, Bengal gram, Onion	Sesamum	Green gram	Vegetables / Groundnut	
21	Peddapalli	50	50	1500	Turmeric	Green gram	Redgram	Sesamum	Ground nut	Bengal gram	Sesamum	Green gram	Vegetables / Groundnut	
22	Rajannasiricilla	50	50	1500	Red gram	Green gram		Sesamum	Ground nut	Bengal gram	Sesamum	Green gram	Vegetables / Groundnut	
23	Adilabad	50	50	1500	Red gram	Soya bean	Greengram	Bengal gram	Maize	Ground nut	Sesamum	Green gram	Vegetables / Groundnut	
24	Mancherla	50	50	1500	Red gram	Soya bean	Chillies	Bengal gram	Ground nut	Sesamum	Sesamum	Green gram	Vegetables / Groundnut	
25	Nirmal	50	50	1500	Red gram	Turmeric / Soyabean	Cotton / Redgram	Bengal gram	Sesamum	Onion	Sesamum	Green gram	Vegetables / Groundnut	
26	Asifabad Kbheem	50	50	1500	Red gram	Soya bean	Cotton / Greengram	Bengal gram	Jowar	Onion	Sesamum	Green gram	Vegetables / Groundnut	

Annual Action Plan 2022-23 (ANNEXURE –VIII)

(Fin. in Rs.lakhs)

Sl. No.	Components	Financial Assistance	Unit	Gen		SCP		TSP		Total	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	Area Expansion (Plant Material) Actual No. of plants planted in the field can be taken into consideration.		Ha	62489.0	15075.47	12792.00	3086.07	7519.00	1813.96	82800.00	19975.50
	Imported	Rs.29,000/ ha									
	Indigenous	Rs.20,000/ ha									
2	Management up to gestation period (4 yrs)										
	1 st Year	Rs.5250/ha	Ha	62489.0	3280.67	12792.00	671.58	7519.00	394.75	82800.00	4347.00
	2 nd Year	Rs.5250/ha	Ha	5317.87	279.19	148.40	7.79	724.81	38.05	6191.08	325.03
	3 rd Year	Rs.5250/ha	Ha	1192.29	62.60	59.46	3.12	571.25	29.99	1823.00	95.71
	4 th Year	Rs.5250/ha	Ha	1606.91	84.36	36.16	1.90	490.29	25.74	2133.36	112.00
3	Inputs for intercropping	Rs.5250/ha	Ha	70606.0	3706.82	13036.02	684.39	9305.35	488.53	92947.44	4879.74
4	Establishment of Seed Gardens (Capacity 10 Lakh Seedlings per year) having at least 15 ha area	Rs.80.00 lakh/unit	Nos	1.00	40.00	0.00	0.00	0.00	0.00	1.00	40.00
5	Nurseries for 10 ha (Capacity 1 Lakh seedlings)	Rs.40.00 lakh/unit	Nos	23.00	920.00	5.00	200.00	2.00	80.00	30.00	1200.00
6	Water Harvesting Structures	Rs.75000/unit	Nos	260.00	195.00	146.00	109.50	94.00	70.50	500.00	375.00

Sl. No.	Components	Financial Assistance	Unit	Gen		SCP		TSP		Total	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
7	Custom Hiring Centre cum Harvesters Groups	Rs.25.00 lakh/unit	Nos	6.00	150.00	1.00	25.00	3.00	75.00	10.00	250.00
8	Farmers Training	Rs.30000/- batch	Nos	37.00	11.10	8.00	2.40	5.00	1.50	50.00	15.00
9	Officers Training	Rs.40000/ batch	Nos	20.00	8.00	0.00	0.00	0.00	0.00	20.00	8.00
10	Replanting of old Oil Palm Garden	Rs.250/plant	Ha	2415	6.04	494	1.24	291	0.73	3200	8.00
11	Flexi Fund	10%	Rs	0.00	1700.00	0.00	605.00	0.00	150.00	0.00	2455.00
12	Programme Management Expenses (PME)	3%	Rs.	0.00	900.00	0.00	0.00	0.00	0.00	0.00	900.00
	Total				26417.15		5399.59		3169.25		34985.98

ANNEXURE - IX

Monthly Progress Report under NMEO – Oil Palm 2022-2023 for the month of _____

District: _____

Fin. Rs. in Lakhs

S. No.	Component	Unit	Assistance per unit (Rs.)	Target								Achievement								No. of beneficiaries				Women beneficiaries	
				Gen		SCP		TSP		Total		Gen		SCP		TSP		Total		Gen	SCP	TSP	Total (21+22+23)	No.	Area
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	Planting material (Area Expansion) - Imported	Ha	29000																						
	Indigenous	Ha	20000																						
	Sub total																								
2	Maintenance cost during gestation period																								
i	1st Year	Ha	5250																						
ii	2nd Year	Ha	5250																						
iii	3rd Year	Ha	5250																						
iv	4th Year	Ha	5250																						
3	Inputs for intercropping in Oil Palm	Ha	5250																						
	Total of 1 to 3																								
4	Establishment of Seed Gardens	No.	Rs.40.00 lakh/unit																						
5	Nurseries for 10 Ha		Rs.40.00 lakh/unit																						
6	Machinery Tools																								
a	Chaff Cutters	No.	50000																						
b	Harvesting poles	No.	5000																						
c	Cutter	No.	2500																						
d	Motorized chisel	No.	15000																						
e	Tractor trolly	No.	200000																						
	Sub total-6																								

S. No.	Component	Unit	Assistance per unit (Rs.)	Target								Achievement								No. of beneficiaries				Women beneficiaries	
				Gen		SCP		TSP		Total		Gen		SCP		TSP		Total		Gen	SCP	TSP	Total (21+22+23)	Women beneficiaries	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.					No.	Area
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
7	Custom Hiring centre cum Harvester Groups	No.	Rs.25.00 lakh/unit																						
8	Farmers training	No.	30000																						
9	Officers training	No.	40000																						
10	Replanting of old Oil palm garden	Ha	250																						
11	Flexi fund	LS																							
12	Project Maintenance Expenses (PME)	LS																							
Grand Total																									