

# **National Mission on Oilseeds and Oil Palm (NMOOP)**

## **Operational Guidelines**

### **1. INTRODUCTION :**

India is one of the major oilseeds grower and importer of edible oils. India's vegetable oil economy is world's fourth largest after USA, China & Brazil. The oilseed accounts for 13% of the Gross Cropped Area, 3% of the Gross National Product and 10% value of all agricultural commodities. This sector has recorded annual growth rate of area, production and yield @ 2.44%, 5.47% and 2.96% respectively during last decade (1999-2009).

The diverse agro-ecological conditions in the country are favourable for growing 9 annual oilseed crops, which include 7 edible oilseeds (groundnut, rapeseed & mustard, soybean, sunflower, sesame, safflower and niger) and two non-edible oilseeds (castor and linseed). Oilseeds cultivation is undertaken across the country in about 27 million hectares mainly on marginal lands, of which 72% is confined to rainfed farming.

During the last few years, the domestic consumption of edible oils has increased substantially and has touched the level of 18.90 million tonnes in 2011-12 and is likely to increase further. With per capita consumption of vegetable oils at the rate of 16 kg/year/person for a projected population of 1276 million, the total vegetable oils demand is likely to touch 20.4 million tonnes by 2017.

A substantial portion of our requirement of edible oil is met through import of palm oil from Indonesia and Malaysia.

It is, therefore, necessary to exploit domestic resources to maximize production to ensure edible oil security for the country. Oil Palm is comparatively a new crop in India and is the highest vegetable oil yielding perennial crop. With quality planting materials, irrigation and proper management, there is potential of achieving 20-30 MT Fresh Fruit Bunches (FFBs) per ha after attaining the age of 5 years. Therefore, there is an urgent need to intensify efforts for area expansion under oil palm to enhance palm oil production in the country.

Tree Borne Oilseeds (TBOs), like sal, mahua, simarouba, kokum, olive, karanja, jatropha, neem, jojoba, cheura, wild apricot, walnut, tung etc. are

cultivated/grown in the country under different agro-climatic conditions in a scattered form in forest and non-forest areas as well as in waste land /deserts/hilly areas. These TBOs are also good source of vegetable oil and therefore need to be supported for cultivation.

## 2. MISSION TARGETS:

National Mission on Oilseeds and Oil Palm (NMOOP) envisages increase in production of vegetable oils sourced from oilseeds, oil palm and TBOs from 7.06 million tonnes (average of 2007-08 to 2011-12) to 9.51 million tonnes by the end of Twelfth Plan (2016-17). The Mission is proposed to be implemented through three Mini Missions with specific target as detailed below:

<b>Mini Mission (MM)</b>	<b>Target of 12<sup>th</sup> Plan</b>
MM I on Oilseeds	Achieve production of 35.51 million tones and productivity of 1328 kg/ha of oilseeds from the present average production & productivity of 28.93 million <b>tonnes</b> and 1081 kg/ha during the 11 <sup>th</sup> Plan period respectively.
MM II on Oil Palm	Bring additional 1.25 lakh hectare area under oil palm cultivation through area expansion approach in the States including utilization of wastelands with increase in productivity of fresh fruit brunches (FFBs) from 4927 kg per ha to 15000 kg per ha.
MM III on TBOs	Enhance seed collection of TBOs from 9 lakh <b>tonnes</b> to 14 lakh tonnes and to augment elite planting materials for area expansion under waste land.

## 3. STRATEGY:

The strategy to implement the proposed Mission will include increasing Seed Replacement Ratio (SRR) with focus on Varietal Replacement; increasing irrigation coverage under oilseeds from 26% to 36%; diversification of area from low yielding cereals crops to oilseeds crops; inter-cropping of oilseeds with cereals/ pulses/ sugarcane; use of fallow land after paddy /potato cultivation; expansion of cultivation of Oil Palm & TBOs in watersheds and wastelands; increasing availability of quality planting materials of Oil Palm & TBOs; enhancing procurement of oilseeds and collection & processing of TBOs. Inter cropping during gestation period of oil palm and TBOs would provide economic return to the farmers when there is no production. The scheme would be implemented in a mission mode through active involvement of

all the stakeholders. Fund flow would be monitored to ensure that benefit of the Mission reaches the targeted beneficiaries in time to achieve the targeted results.

**Annexure I (a)**

**Pattern of Assistance for seed component under Mini Mission-I (Oilseeds) of NMOOP  
during XII Plan**

<b>SN</b>	<b>Components</b>	<b>Pattern of funding</b>	<b>Rate of Assistance</b>
2	Purchase of breeder seed /	100%	NMOOP will support purchase of breeder seeds from ICAR/SAUs etc by the States/seed agencies at the full cost of

	parental lines (for production of hybrid seed)		breeder seeds as fixed by the Seeds Division of the Department of Agriculture & Cooperation during Twelfth Plan period.
3	Production of Foundation seed	75:25	Rs1000/quintal for all varieties/hybrids released during last 10 years and Additional assistance of Rs.100/qtl on the varieties/hybrids released in last 5 years. 75% of subsidy amount is meant for farmers and 25% for seed producing agencies for meeting expenditures towards certification & production etc. (SDAs/NSC/SFCI/NAFED/KRIBHCO/IFFCO/HIL/IFFDC/Central Multi-State Cooperatives such as NCCF.
4	Production of certified seed	75:25	-do-
5	Distribution of certified seed	75:25	50% of the cost limited to Rs.1200/quintal for varieties/composites of oilseeds which are not older than 10 years. <b>Hybrids:</b> Assistance for distribution of certified hybrids seeds @ 50% of the cost with a ceiling of Rs.2500/qtls of hybrids, which are not older than 10 years. Subsidized seed distribution only through own outlets/ dealers by Nodal Agencies with a ceiling of 5 ha/farmer.
6	Distribution of Minikit (Varietal Diversification)	100%	Allocation will be made @ 1 minikit for every 20 ha area each crop @ 100% cost reimbursement. <b>Agencies:</b> NSC/SFCI/NAFED/KRIBHCO/IFFCO/HIL/IFFDC/ Central Multi-State Cooperatives such as NCCF/Identified SSCs.
7	Seed Infrastructure Development	100%	The support for continuation of already approved seed infrastructure projects to States/Agencies under ISOPOM during Eleventh Plan period will continue. Allocation would be restricted to maximum of 1% of total outlay under the Mini Mission-I on Oilseeds of NMOOP for the entire implementation period during Twelfth Plan period.
8	Variety Specific Targeted Seed Production (VSTSP)	75:25	75% cost of seed production to NSC/SFCI/selected SSCs/State Government Agencies / ICAR /SAUs and its KVKs farms and International institutions etc in project mode subject to requirement of foundation/ certified seed and availability of breeder/ foundation seeds. <b>Eligibility:</b> Varieties/hybrids not older than 5 years.

**Pattern of Assistance for Production inputs component under Mini Mission-I  
(Oilseeds) of NMOOP during XII Plan**

SN	Components	Pattern of funding	Rate of Assistance
1	Plant Protection Equipments including eco-friendly light-trap (NCIPM Model) and seed treating drum.	75:25	<p>For manual sprayers: Knapsack/foot operated sprayers and eco friendly light trap (NCIPM), @ 40% of the cost of procurement subject to a ceiling of Rs. 600/- per equipment (additional 10% assistance to SC / ST / Small / Marginal Farmers / Women, Groups &gt;5 members FPOs and NE States to a ceiling of Rs. 800/- per unit). Seed treating drum with a capacity of 20 kg and 40 kg @ 50% assistance subject to ceiling of Rs. 1750/- and Rs. 2000/- per unit respectively.</p> <p>For Knapsack and Taiwan power sprayers (capacity below 16 litres) @ 50% of the cost of procurement subject to a ceiling of Rs. 3000/- per unit (additional 10% assistance to SC / ST / Small / Marginal Farmers / Women, Groups &gt;5 members FPOs and NE States to a ceiling of Rs.3800/- per unit).</p> <p>For Knapsack and Taiwan power sprayers (capacity above 16 litres) @ 40% of the cost of procurement subject to a ceiling of Rs. 8000/- per unit (additional 10% assistance to SC / ST / Small / Marginal Farmers / Women, Groups &gt;5 members FPOs and NE States to a ceiling of Rs. 10000/- per unit).</p>
2	Plant Protection Chemicals	75:25	Need based supply of PP chemicals, insecticides, fungicides, bio-pesticides, weedicides, Bio-agents, micronutrients, bio-fertilizers etc @ 50% of the cost limited to Rs 500/- ha.
3	Distribution of gypsum/pyrite/ liming/dolomite/Single Super Phosphate etc.	75:25	50% cost of the material + transportation limited to Rs. 750/- per ha. whichever is less. Sulphur 80% WDG as alternative source of Sulphur is also included as new component.
4	Nuclear Polyhedrosis Virus (NPV)	75:25	50% of the cost limited to Rs 500/ha for NPV.
5	Supply of Rhizobium culture/ Phosphate Solubilising Bacteria (PSB)/ Zinc Solubilising Bacteria (ZSB)/ Azotobactor / Mycorrhiza etc	75:25	Support would be provided to State Department of Agriculture (under AAP) @ 50% of the cost of the culture subject to maximum of Rs. 300 per ha for culture in powder/granules/ liquid forms.

S N	Components	Pattern of funding	Rate of Assistance
6	Supply of Improved farm implements	75:25	<p>Manually/Bullock drawn implements including Chiseller @ 40% of the cost limited to Rs. 8000/- per implement (additional 10% assistance to SC / ST/ small/marginal Farmers, Women and NE States to a ceiling of Rs. 0.10 lakh per unit).</p> <p>Tractor driven, farm implements like Rotavator/ Seed Drill/Zero Till Seed Drill/ Multi-Crop Planter/Zero Till Multi-Crop Planter/ Ridge furrow Planter/ Raised bed planter/ Power weeder/ Groundnut digger and Multi crop threshers: @40% of the cost limited to Rs. 50000/- per unit and additional 10% assistance to SC / ST /Small/Marginal Farmers/Women and NE States with a ceiling of Rs. 0.63 lakh per unit.</p>
7	Distribution of Sprinkler Sets	As per NMSA Guidelines	For all categories of sprinkler sets – As per National Mission for Sustainable Agriculture (NMSA).
8	Pipes for carrying water from source to the field	75:25	The support will be provided to the farmers @ 50% of the cost limited to Rs. 25/- per meter with maximum ceiling of 600 meters length and cost of Rs. 15,000/- per farmer for all types of water carrying pipes i.e. PVC, HDPE etc and all sizes as per requirement of farmer. This will be given to the farmers irrespective of condition whether he owns a sprinkler or not, but he should have access to water lifting device.
9	Seed Storage Bins	75:25	The support to farmers through State's Department of Agriculture @ 25% of the cost subject to a maximum of Rs. 2000/- per bin of 20 qtls capacity and to a maximum of Rs. 1000/- per bin of 10 qtls capacity. Only one bin per farmer will be provided under MM-I.

**Pattern of Assistance for Transfer Technology component under Mini Mission-I  
(Oilseeds) of NMOOP during XII Plan**

SN	Components	Pattern of funding	Rate of Assistance
1	Block demonstrations	75:25	Improved package demonstration including intercropping
			One demonstration will be allowed to one farmer with a ceiling of one ha under each crop with
			50% of the cost of inputs limited to the cost as given below:-
2	Block demonstrations on Polythene Mulch Technology in Groundnut.	75:25	Package for demonstration on poly-mulch on groundnut in the area/ zone recommended by Directorate of Groundnut Research (ICAR) @ Rs. 11500/- per ha (Rs. 7500/- for input cost and Rs. 4000/- for poly mulch)



**Annexure 1 (c) Contd....**

<b>SN</b>	<b>Components</b>	<b>Pattern of funding</b>	<b>Rate of Assistance</b>
4	Integrated Pest Management (IPM)	75:25	Farmers Field School (FFS) would be supported @Rs 26,700/- per FFS including demonstration of bio-agents. Costs include training kits/material, IPM kits, literature and contingency.
5	Farmers Training	75:25	Rs. 24000/- per training for a batch of 30 farmers for 2 days (@ 400/- per participant per day)
6	Officers/Extension workers training (Input dealers included)	75:25	Rs.36000/- per training for a batch of 20 officers for 2 days. (@ 900/- per participant per day)

## NATIONAL MISSION ON OILSEEDS &amp; OIL PALM

## Pattern of Assistance for Area Expansion Inputs component under Mini Mission-III (TBOs) of NMOOP during XII Plan

SN	Components	Pattern of funding	Rate of Assistance																
1	Integrated development of Nurseries & plantation on the new wasteland as well as existing wasteland/ degraded forest land.	75:25	<p>Support to nodal/central agency of MM-III on TBOs in AAPs for undertaking Systematic Plantation of 11 Tree Borne Oilseeds on the newly developed wasteland under MM-III of TBOs of NMOOP as well as existing wasteland/ degraded forest land with maximum cost of plantation for different TBOs as follow:</p> <table> <tr> <th>Sl. No.</th><th>Name of Plant</th><th>No. of plants per ha.</th><th>Plantation cost per ha (Rs.)</th></tr> <tr> <td>1</td><td>Olive*</td><td>200</td><td>48,000</td></tr> <tr> <td>2</td><td>Neem</td><td>400</td><td>17,000</td></tr> <tr> <td>3</td><td>Karanja</td><td>500</td><td>20,000</td></tr> </table> <p>* Additional assistance will be provided for drip irrigation as per approved norms, if required.</p>	Sl. No.	Name of Plant	No. of plants per ha.	Plantation cost per ha (Rs.)	1	Olive*	200	48,000	2	Neem	400	17,000	3	Karanja	500	20,000
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