



सत्यमेव जयते

National Mission on Oilseeds and Oil Palm (NMOOP)

Operational GUIDELINES 2014

Oil Seeds Division
Department of Agriculture & Cooperation
Ministry of Agriculture
Government of India
Krishi Bhawan, New Delhi



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Foreword

Edible oil constitutes an important part of our daily food intake. Domestic consumption of edible oils has increased substantially over the years and has touched the level of 18.90 million tonnes as against the domestic availability of 9.02 million tonnes during 2011-12. The gap between production and consumption is being met through imports causing a huge drain on the exchequer. It is therefore essential to initiate suitable measures to increase production of vegetable oil in the country.

Sources of vegetables oil are oilseeds, Oil Palm and Tree Borne Oilseeds. Enhancing productivity of oilseeds, which are largely grown under rainfed ecologies by small and marginal farmers, is a challenging task. The existing schemes, namely, integrated scheme of Oilseeds, Oil Palm and Maize (ISOPOM), Tree Borne Oilseeds (TBOs) and Oil Palm Area Expansion (OPAE) programme have been restructured into National Mission on Oilseeds and Oil Palm (NMOOP) based on experience and feedback from the States. The Operational Guidelines for implementing the Mission have been prepared with the aim of increasing production and productivity of oilseeds, including oil palm and TBOs.

I am confident that the Guidelines will prove to be useful to the State Governments and Agencies in formulation of Annual Action Plans for implementation and monitoring of NMOOP more effectively in a mission mode

(Ashish Bahuguna)

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Website : agricoop.nic.in/dacdivision/nmoop20114.pdf

Introduction

1

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, jatropa, 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.

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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:

Mini Mission (MM)	Target of 12th Plan
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 tonnes and 1081 kg/ha during the 11th 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 tonnes to 14 lakh tonnes and to augment elite planting materials for area expansion under waste land.

Strategy 3

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.

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Funding Pattern & Fund Flow

Cost of the interventions proposed under the Mission will be in the ratio of 75:25 between the Central and the State Governments, except in case of few ongoing interventions like, purchase of Breeder seeds, supply of seed minikits, infrastructure development for seed production through Public Sector agencies like NSC, SFCI, SAUs including KVKs, for FLDs, procurement support to NAFED, TRIFED; R&D support for ongoing research projects. Upto 1% of the funds allocated under the Mission will be earmarked at national and state level to meet the contingency expenditure including engagement of contractual manpower for monitoring of implementation of the Mission.

The funds will be released to the Departments of Agriculture/Horticulture of the State Governments. As far as possible, electronic banking will be used for transfer of funds to the State /Agencies. The private sectors and NGOs could be involved through the State Departments of Agriculture and Horticulture only. The Government of India will release the funds to the agencies for the direct funded

components/activities at Central level. The State Govt. will be responsible for release of 25% share of the allocation annually in the beginning of the financial year. The oilseeds and oil palm development programme of ISOPOM alongwith liability of ISOPOM and tree borne oilseeds development programme for the approved programme will be subsumed under the Mission. The oilseeds development components of MMA stand discontinued in the States of Assam, Jammu & Kashmir, Jharkhand, Tripura and Nagaland with the launch of NMOOP. No permanent posts will be created by the Central or the State Governments under NMOOP.

Past experiences reveal that most of the State Governments held up the allocated/released funds of the Governments of India, besides, non-accordance of sanction for the States matching share. Delayed/not issuing of State's contribution well before each sowing season hamper implementation of the programme. States would, therefore, ensure issue of States sanction including release of State matching share in time. Inordinate delay/non-utilization of budget may result in non-release of Central

share and also diversion of the same to the other performing States.

As per the guidelines of Ministry of Finance, 10% of the Plan budget of NMOOP would be earmarked as flexi-fund to meet the following objective:

- (i) To provide flexibility to States to meet local needs and requirement within the overall objective of NMOOP;
- (ii) To pilot innovations and improved efficiency within the overall objective of the Scheme and its expected outcomes;
- (iii) To undertake mitigation/restoration activities in case of natural calamities in the oilseeds sector.

Release of flexi-funds would be made on a pro-rata basis along with normal releases of NMOOP. In other words, no separate system for release or for utilization certificate for flexi-funds would be required. Flexi funds will be subject to same audit requirements as the NMOOP including audit by the Comptroller & Auditor General of India (CAG).

Outcomes and outputs need to be part of MIS alongwith pictures/images and good practices to ensure greater transparency and cross learning across States. Evaluation of flexi-funds would be done through the proposed evaluation process of NMOOP.

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Mission Structure

5.1 National Level

5.1.1 Executive Committee (EC): At the apex level, the Mission will be monitored by a high level Executive Committee (EC) Chaired by the

Union Minister of Agriculture. The heads of various Divisions of DAC may also be invited for consultations in EC. The composition of EC will be as under:

1.	Agriculture Minister	Chairperson
2.	Secretary (A&C)	Member
3.	Secretary (DARE) & DG (ICAR)	Member
4.	Additional Secretary, looking after NMOOP	Member
5.	Additional Secretary & Financial Advisor (DAC)	Member
6.	Agriculture Commissioner, DAC, GOI	Member
7.	Joint Secretary, Environment & Forest (MFP)	Member
8.	Joint Secretary, Food & Public Distribution	Member
9.	Joint Secretary, Ministry of Tribal Affairs (looking after TBOs)	Member
10.	Executive Director, NOVOD Board	Member
11.	Adviser (Agriculture), Planning Commission	Member
12.	Joint Secretary (Oilseeds), Mission Director	Member Secretary

EC will be the policy making body providing suitable directives and guidance to the Mission and reviewing the overall progress and development of the Mission. EC will lay down and also amend the operational guidelines **regarding day to day operation of the Mission.** EC will consider and approve inclusion of any other States under all the three Mini Mission. EC will be empowered to include/exclude a

new agency/organization under the Mission from Governments Central/State/Semi Government/ Government Autonomous/ Cooperatives/PSUs. The Chairman, EC would be empowered to take decision on file subject to ratification by the Committee. The private sector could, however, be involved only through State Government for undertaking any of the identified activities.

The Chairman, EC would be empowered to take decisions on file subject to ratification by the Committee. EC will also be empowered to amend/ratify the decisions taken by the Standing Committee of NMOOP and will meet at least twice a year.

5.1.2 Standing Committee (SC): A Standing Committee will be constituted under the Chairmanship of Secretary (A&C) to oversee activities of the Mission and to approve the Annual Action Plans (AAP) of the states and implementing agencies under the Mission. Joint Secretary and Mission Director (NMOOP) will be the Member Secretary of SC. The Standing Committee/Chairperson of the Standing Committee will be empowered to decide need based allocation/re-allocation

of resources across States/Implementing Agencies, approve the allocation of the seed minikits to the implementing states under the component of "Distribution of Seed Minikits" of the Mini Mission-I on Oilseeds. The Chairman may nominate more members to the Committee as per the requirement. The Mission Director, however, will be empowered to approve inter-component changes in the approved AAP. The Chairman, SC would be empowered to take decisions on file subject to ratification by the Committee. SC will also be empowered to amend/ratify the decisions taken by the Mission Monitoring Committee of NMOOP. The meeting of Standing Committee will be held as and when required but at least twice a year. The composition of the Standing Committee will be as under;

1.	Secretary (A&C)	Chairperson
2.	Additional Secretary & Financial Advisor (DAC)	Member
3.	Additional Secretary, looking after NMOOP.	Member
4.	Agriculture Commissioner, DAC	Member
5.	Joint Secretary (NRM & RFS)	Member
6.	Executive Director, NOVOD Board, Gurgaon	Member
7.	Assistant Director General (O&P), ICAR	Member
8.	Director, Directorate of Oil Palm Research, ICAR	Member
9.	Director, Directorate of Oilseeds Research, ICAR	Member
10.	Joint Secretary (Oilseeds), Mission Director	Member Secretary

To meet the administrative expenditure in implementation of NMOOP, DAC may retain a proportion of outlay i.e. up to 1% of the funds allocated for NMOOP at its level. This amount will also be used in organising pan India activities including evaluation, monitoring, hiring of vehicles, manpower etc, or for such administrative contingencies that may arise at various times. The Standing Committee of

NMOOP will be empowered to increase or decrease the administrative expenditure within the mission funds depending up on such actual need but will not exceed the 1% limit.

5.1.3 Mission Monitoring Committee (MMC):

A Mission Monitoring Committee will be constituted under the Chairmanship of Joint Secretary (Oilseeds) DAC who will also be

the Ex-Officio Mission Director of NMOOP, to oversee the monitoring activities of the three Mini Missions and to review the physical & financial progress made there under. The Chairman may nominate more members to the Committee as per the requirement. The Committee will also review the status of the releases made to the state and implementing agencies/organizations, status of Utilization

Certificates received, requirement/surrender of funds at BE, RE and final batch of supplementary grants. The Chairman, MMC would be empowered to take decisions on file subject to ratification by the Committee. The Mission Monitoring Committee will meet as and when required but at least once in each quarter of the financial year. The composition of the Mission Monitoring Committee is as under:

1.	Joint Secretary (Oilseeds), Mission Director	Chairperson
2.	Executive Director/Secretary, NOVOD Board, Gurgaon	Member
3.	Dy. Secretary (TMOP)/ Director (Oilseeds)	Member
4.	Addl. Commissioner (Crops)	Member
5.	Addl. Commissioner (INM)	Member
6.	Director (Finance), IFD, DAC	Member
7.	Mission Directors of implementing States	Member
8.	CMD of Central seed producing/supplying agencies	Member
9.	Additional Commissioner (Extension)	Member
10.	CMD, NAFED	Member
11.	Additional Commissioner (Oilseeds)	Member Secretary

5.2 State Level

A State Level Standing Committee will be constituted by the State Government under the Chairmanship of Agriculture Production Commissioner/Principal Secretary/Secretary (Agriculture) of the State to decide the priorities, to consider AAPs and review the progress of each Mini Mission being implemented in the state. The State Government would involve the officials of various line Department /Ministry and stake holders. A State Mission Director will be designated by the State Governments for all three Mini-Missions, who should at least be an officer of the level of Commissioner/Director of the Department of Agriculture/Horticulture. State Government will constitute

a Project Management Team (PMT) at District Level for smooth implementation & monitoring of the various Mission activities.

The Mission Director of the State will be the State Nodal Officer for the Mission and will be responsible for preparation of State Action Plan (SAP) for the entire Twelfth Plan period with year wise Annual Action Plans based on the priorities/targets of each intervention subject to approval by the Central Government. The SAP and AAP should have a clear road map for achieving the mission objectives and targets. AAP of the State will be first approved by the Standing Committee of the State before seeking approval of the Standing Committee of NMOOP.

Role of Panchyat Raj Institution

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The State Governments may have in place a sound mechanism for involvement of PRIs in the formulation, prioritization of activities & identification of beneficiaries at grass root level and ensure involvement of Panchayati Raj Institutions. An illustrative activity mapping for involvement of PRI is given below:

Activity category	Union Government (Ministry of Agriculture, DAC)	State Government	District level	Local Government and Planning Bodies		
				Panchayati Raj System		
				Distt. Panchayat	Intermediate Panchayat	Village Panchayat
Setting Standard	Formulation and circulation of guidelines for implementation	Constitution of State level Standing Committee headed by APC/PSA to decide the priorities, consider AAP and to review the progress of NMOOP	Constitution of a Project Management Team at District level in consultation with PRI.			
Planning	Approval of Annual Action Plan of the states by Standing Committee headed by Secretary (A&C).	Approval of consolidated District Annual Action Plan (DAAPs) by SLSC before submission to GOI.	Formulation of DAAPs in consultation with PRI			
Implementation	Release of funds against the approved AAPs.	Release of funds to concerned Line Department	Identification of areas for cluster/Front Line Demonstrations in consultation with PRI.			
Operation & Maintenance	Review of Physical and financial progress by Mission Monitoring Committee at National level.	Coordination and convergence with the Line Department/ Agencies through SLSC.	Prioritization of resources like water bodies created/ wasteland development under other schemes for utilization under oilseed cultivation in consultation with PRI.			
Monitoring & Evaluation	Monitoring by Executive Committee headed by AM and Standing Committee headed by Secretary (A&C). Concurrent, Mid-term and Plan End impact Evaluation through an Agency appointed by GOI.	Reporting of progress through Web based MIS. Concurrent and impact Assessment on year-to-year basis.	involvement of PRI in review of progress of implementation and feedback about the programme.		Social Audit by Gram Sabha	

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Area of Operation

NMOOP will be implemented in the following states:

- (i) **Mini Mission – I on Oilseed:** Andhra Pradesh , Bihar, Chhattisgarh, Gujarat, Haryana, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal, Assam, Jammu & Kashmir, Jharkhand, Nagaland and Tripura.
- (ii) **Mini Mission- II on Oil Palm:** Andhra Pradesh , Chhattisgarh, Goa, Gujarat, Maharashtra, Mizoram, Karnataka, Kerala, Odisha, Tamil Nadu, Arunachal Pradesh, Assam, Bihar, Manipur,

Meghalaya, Nagaland, Sikkim, Tripura and West Bengal.

- (iii) **Mini Mission-III on TBOs:** Andhra Pradesh, Assam, Arunachal Pradesh, Bihar, Chhattisgarh, Gujarat, Goa, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand and West Bengal.

Executive Committee headed by the Agriculture Minister would be empowered for inclusion of additional States.

Monitoring, Reporting & Evaluation

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8.1 Monitoring: National Level Monitoring Teams (NALMOTs) comprising of the technical officers from Department/Crop Development Directorates (CDDs), States' Department of Agriculture/Horticulture & the scientists of ICAR/SAUs including retired scientists with specialization in the crops concerned would be constituted under the Mission for monitoring of the Mission activities at the field level. The progress of implementation would also be reviewed by the senior officers of the Department during their visits to the states. The overall progress of implementation would be reviewed regularly by the Mission Monitoring Committee. The Standing Committee (SC) and Executive Committee (EC) of the Mission would be apprised of the outcome of the monitoring activities for taking necessary corrective measures, if any. The States would constitute State Level Monitoring Team (SALMOT) at the state level and Project Management Team (PMT) at the district level. The Technical Support Groups would be actively involved in monitoring activities both at National & States level. Monitoring of implementation of the Mission should be as frequent as possible, both at the field level and also through video conferencing.

The Concurrent, Mid-term and Plan End Impact evaluation of the Mission will be undertaken at National level through an agency appointed by GOI. Besides the State Government would also undertake concurrent & impact assessment on year to year basis. A baseline survey will be conducted by the State's Department of Economic & Statistics to ascertain the productivity level of oilseeds prior to implementation of NMOOP. The State Mission Director will also conduct a base line survey in respect of oil palm for productivity of FFB of oil palm at farmer's field.

8.2 Reporting System: Information Technology tools developed in collaboration with NIC will be used for monitoring and evaluation of the Mission. States will compile & furnish the physical and financial status on implementation of the Mission through a Web-enabled Monitoring System. The State Mission Director will be responsible for reporting the progress of implementation of the Mission.

- ❖ The States will be allowed to dovetail the resources of other programmes of GOI, wherever required to supplement the efforts of NMOOP. The approved/

existing committed liability arising out of implementation of ongoing schemes on oilseeds, oil palm and TBOs will be taken over by NMOOP except the liability of the staff. However, in future, implementing agencies would be required to undertake activities only within the **allocations approved** by GOI & corresponding State share. No claim relating to expenditure over and above **approved allocation** funds would be entertained in DAC.

- ❖ Under MM-I on Oilseeds, flexibility will be given to the States for inter component diversion of funds up to 20% except seeds components. Inter Component changes in the approved AAPs of the states under MM-II on Oil Palm can only be allowed with the approval of SC of NMOOP.
- ❖ A minimum of 25% of the funds allocated for implementation of beneficiary oriented components viz. planting material, demonstration, training, supply of farm implements including sprinkler/drip irrigation will be earmarked by the State Government for the utilization of the farmers belonging to Schedule Caste (17%) and Schedule Tribe (8%). However, allocation to SC/ST farmers may be made proportionate to their population in the districts by the States.
- ❖ The States will be allowed to cover local initiatives, if any, which may be crucial

and not covered as an intervention under NMOOP. The State may include such interventions with subsidy not more than 50% of the cost of the item/services within 1% allocation of AAP under each Mini-Mission per year.

8.3 Evaluation: A baseline survey will be conducted by the States Mission Directors to ascertain the productivity level of oilseeds under MM-I. Under MM-II, a baseline survey for the productivity of oil palm at farmers' field in each block already harvesting FFBs from earlier plantations will be conducted. Similarly benchmark survey will be made under MM-III for current area and production of TBOs/oils. The respective State Governments will undertake concurrent evaluation on year-to-year basis and the Government of India will undertake a mid-term evaluation at the national level through an independent agency/organization after the 3rd year of implementation of the Mission to assess performance and shortcomings so as to take remedial measures, if any, in the method of implementation. An impact evaluation at the national level will also be undertaken through an independent agency to assess the impact of the mission in increasing the productivity of oilseeds crops under MM-I & overall development under MM-II and MM-III by the end of the Twelfth Plan Period.

All interventions suitable for integrated farming system depending on the climatic conditions and natural resource base for optimizing farm returns in a sustainable manner **have been** included under NMOOP. The Mission imbibes the inputs delivery of existing programmes on oilseeds and oil palm and also restructures the interventions by inclusion/deletion and rationalizing the subsidy thereon. The components under Mini Mission-I on Oilseeds, Mini Mission-II on Oil Palm and Mini Mission-III on Tree Borne Oilseeds (TBOs) are described separately.

9.1 Mini Mission-I (MM-I) on Oilseeds:

The components of the Annual Action Plan (AAP) under MM-I on Oilseeds will be classified broadly in three categories namely Seed Components, Production Components and Transfer of Technology. The illustrative expenditure thereon is as under:

9.1.1 Seed Components:

Production of seed is time-consuming, cost intensive and risky under rainfed conditions in which oilseeds are grown. The planning for anticipated requirement of Breeder seeds is

done in advance to produce Foundation and Certified seeds in subsequent generations. Therefore, the chain of the quality seeds production begins from Breeders seeds. The high seed volume crops of groundnut and soybean need strategic planning for Breeder seeds production to meet the certified seed requirements. The Central Seed Producing Agencies can also produce the Foundation and Certified seeds in the states, which are not covered under the Mission. The popularity of hybrids seeds in sunflower, castor and safflower also require maintenance of parental material and special techniques for hybrids seed production.

9.1.1.2. Purchase of Breeders seeds/ parental lines (hybrid seed)

ICAR is the nodal agency for the production of Breeder seeds of oilseeds. The ongoing support for Breeder seed production to ICAR has been discontinued from 2013-14. However, the financial liability accrued on the breeder seed production under ISOPOM upto Eleventh Plan would be considered under the Mission. The breeder seeds are produced by the breeders of the organizations such as ICAR/SAUs/KVKs etc.

The Mission will reimburse 100% cost of production of the Breeder seeds/parental lines to Central Seed Producing Agencies at the Government of India level. Department of Agriculture of the State Government will however, reimburse 100% cost of Breeder seeds as per cost norms mentioned in **Annexure I (a)**, for the approved targets included under AAPs of the states, to the agencies like SAUs/KVKs/State Seed Corporation/ Federations etc.

9.1.1.3. Production of Foundation and Certified seeds

Subsidy assistance will be provided limited to ₹ 1000/quintal for all varieties/hybrids released during the last 10 years with additional assistance of ₹ 100/qtl on the varieties/hybrids released in the last 5 years. 75% of the subsidy amount is meant for farmers and 25% for the seed producing agencies for meeting expenditure towards certification & production etc. The support will be provided to i) States' Department of Agriculture (SDAs)/ State Seeds Corporations (SSCs) at State level under AAP of the State and to ii) NSC/SFCI/NAFED/KRIBHCO/IFFCO/IFFDC/Central Multi-State Cooperatives such as NCCF/Hindustan Insecticides Limited (HIL) or other agency approved by the Executive Committee as central nodal agency at national level, based on the approved Plan for these agencies at Central level. The support for particular variety/hybrids may be decided by Standing Committee of the Mission.

9.1.1.4 Distribution of Certified Seeds

Assistance @50% of the cost limited to ₹ 1200/- per quintal for varieties of oilseeds not older than 10 years. For hybrids,

assistance for distribution of certified hybrids seeds @ 50% of the cost limited to ₹ 2500/- per quintal for hybrids of oilseeds not older than 10 years. The support will be provided to i) SDAs/SSCs at State level under AAP of the State and to ii) NSC/SFCI/NAFED/KRIBHCO/IFFCO/IFFDC/HIL/Central Multi-State Cooperatives such as NCCF based on the approved Plan for these agencies at Central level. The support for particular variety/hybrids may be decided by SC of the Mission. SHGs/ FIGs/FPOs/Women groups/ Co-operatives etc. could also be involved by the States in distribution of Certified Seeds. Subsidized Certified Seed distribution should be done only through own outlets/dealers of Nodal Agencies subject to a ceiling of 5 ha area per farmer for all crops of oilseeds.

Subsidy assistance would be available to only such organizations and for such varieties/hybrids whose production, certification and availability is ensured through the website of DAC.

9.1.1.5. Distribution of Minikit (Varietal Diversification)

Minikits are meant for introduction and popularization of latest released/pre-released varieties/hybrids not older than 10 years among the farmers free of cost. NSC/SFCI/NAFED/KRIBHCO/ IFFCO/IFFDC/HIL/Central Multi-State Cooperatives such as NCCF/SSCs etc, will be involved in supply of minikits at national level. Allocation will be made @ one minikit for every 20 Ha area under each crop containing 20 kg seed for groundnut, 8 kg seed for soybean, 2 kg seed of each rapeseed & mustard, sunflower, safflower, linseed, castor and one kg seed each of sesame and niger.

The price of seed minikits will be fixed by the Mission Monitoring Committee of NMOOP at National level and 100 % cost would be reimbursed to the agencies on certification of receipt by the state. The allocation of seed minikits will be decided by the Standing Committee before commencement of Kharif/Rabi/Summer seasons.

9.1.1.6 Seed Infrastructure Development

Assistance upto 50% for creation of seed infrastructure including threshing floor, seed storage godowns with the provision for de-humidification, irrigation facilities including tube wells/bore wells, motor pumps, sprinklers, excluding drip, lining of channels, levelling of fields, fencing on the farms, electrification of office building, farm machinery etc at State Government/State Seed Corporation (SSC) farms engaged in seeds/planting material production for the Mission crops and upto 75 % GOI support for farms of NSC/SFCI and 100 % for SAUs/KVKs under Mini Mission-I on Oilseeds. The support for already approved seed infrastructure projects to States/Agencies under ISOPOM during Eleventh Plan period will be continued under the Mission. Maximum of 1% of total outlay under the Mini Mission-I of NMOOP for the entire Twelfth Plan period will be utilized for this intervention. The seed infrastructure development proposals of Department of Agriculture of the State Government must be sent by the respective Mission Directors to DAC separately supported by estimates and construction plans as per the latest schedule of rates of State PWD. This component will not be implemented without the prior and specific approval of the Standing Committee of NMOOP.

9.1.1.7 Variety Specific Targeted Seed Production (VSTSP)

In order to ensure availability of quality seeds of a particularly variety of oilseeds for large area cultivation the seeds are required to be multiplied on large scale for distribution to the farmers. Therefore, a provision has been made to undertake seed production of varieties/hybrids not older than 5 years under VSTSP component of the Mission. The production of hybrids on large scale could also be taken provided sufficient parental material is available. VSTSP will provide 75% support to NSC/SFCI/selected SSCs/State Government Agencies/ICAR/SAU and KVK farms etc in a project mode. The certified seed produced under VSTSP will be utilized under Distribution of Seed Minikit component through the Departments of Agriculture of the State Government for distribution to the farmers.

9.1.2 Production Inputs:

The support for other non-seed components input will be provided to the farmers through the Department of Agriculture of the State Governments.

9.1.2.1 Plant Protection Equipments/eco friendly light-trap (NCIPM Model)

For manual sprayers: Knapsack/foot operated sprayers and eco friendly light trap (NCIPM), @40% of the cost of procurement subject to a ceiling of ₹ 600/- per equipment (additional 10% assistance to SC/ST/Small/Marginal Farmers/Women, Groups >5 members FPOs and NE States to a ceiling of ₹ 800/- per unit). Seed treating drum with a capacity of 20 kg and 40 kg @ 50% assistance subject to ceiling of ₹ 1750/- and ₹ 2000/- per unit respectively.

For Knapsack and Taiwan power sprayers (capacity below 16 litres) @ 50% of the cost of procurement subject to a ceiling of ₹ 3000/- per unit (additional 10% assistance to SC/ST/Small/Marginal Farmers/Women, Groups >5 members FPOs and NE States to a ceiling of ₹ 3800/- per unit).

For Knapsack and Taiwan power sprayers (capacity above 16 litres) @ 40% of the cost of procurement subject to a ceiling of ₹ 8000/- per unit (additional 10% assistance to SC/ST/Small/Marginal Farmers/Women, Groups >5 members FPOs and NE States to a ceiling of ₹ 10000/- per unit)

9.1.2.2 Plant Protection Chemicals/ insecticides/fungicides/Bio-pesticides/Weedicides/Bio-agents/ micronutrients etc

Need based supply of PP chemicals, insecticides, fungicides, bio-pesticides, weedicides, bio-agents, micronutrients etc. to the farmers will be supported @ 50% of the cost limited to ₹ 500/- ha.

9.1.2.3 Distribution of gypsum/pyrite/ liming/dolomite/Single Super Phosphate etc. (SSP)

For proper plant growth and seed setting with higher oil content, it is essential to use balanced application of fertilizers with organic manure and application of micro-nutrients. Deficiencies of secondary nutrients like calcium and Sulphur in groundnut, Sulphur in other oilseeds adversely impact productivity of oilseeds. Similarly in upland areas, soil acidity and in low lying alkalinity/ salinity adversely affects growth and yield of oilseeds crops. Assistance has therefore been

provisioned under NMOOP for supply of gypsum/pyrite/liming/dolomite/SSP, etc., to the farmers. Sulphur 80% WDG as alternative source of Sulphur will also be included as new component. Support to SDAs @ 50% cost of the material + transportation limited to ₹ 750/- per ha.

9.1.2.4 Supply of Nuclear Polyhedrosis Virus (NPV)

To arrest the damage by *helicoverpa armigera* in oilseed crops like soybean etc, support will be provided to farmers for supply of NPV @ 50% of the cost limited to ₹ 500/ha.

9.1.2.5 Supply of Rhizobium culture/ Phosphate Solubilising Bacteria (PSB)/Zinc Solubilising Bacteria (ZSB)/Azatobactor/ Mycorrhiza

Bio-fertilizers are eco-friendly and cost effective inputs, which make available nutrients through natural process of nitrogen fixation, solubilising phosphorus and mobilising potash. Bio-fertilizers also reduces the use of chemical fertilizers and are available in market in solid as well as liquid forms. The liquid form is superior in total viable count and has two years shelf life as compare to solid forms, which has maximum shelf life of six months. Therefore, liquid bio-fertilizers needs to be promoted on priority. One litre each of N.P.&K of bio-fertilizers with Rhizobium/Azospirillum/Azatobactor and Phosphate Solubilising Bacteria (PSB)/Potash Mobilising Bacteria (PMB)/Zinc Solubilising Bacteria (ZSB) is required to be applied in combination per ha. Cost of application of Biofertilizers is about ₹ 600/- per ha and @ 50% subsidy to the tune of ₹ 300/- per ha is provisioned.

9.1.2.6 Supply of Improved farm implements

The cost and availability of labourers for agriculture have become a major bottleneck and to address this problem as well as to enhance efficiency of the farmers but also help them timely completion of operations support will be provided for supply of following farm implements as per rates/norms of Sub-Mission on Agricultural Mechanisation (SMAM):

- (i) Manually/Bullock drawn implements including Chiseller @ 40% of the cost limited to ₹ 8000/- per implement (additional 10% assistance to SC/ST/Small/Marginal Farmers/Women and NE States to a ceiling of ₹ 10,000 per unit).
- (ii) 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 ₹ 50000/- per unit and additional 10% assistance to SC/ST/Small/Marginal Farmers/Women and NE States with a ceiling of ₹ 63,000 per unit.

9.1.2.7 Distribution of Sprinkler Sets/Raingun etc.

With a view to use the available water judiciously/economically to cover maximum area, and to provide irrigation at least at critical crop growth stages, the sprinkler mode of irrigation has been introduced in oilseeds crops. Support will be provided to the growers for Sprinkler/mobile sprinkler/raingun subsidy as per the norms under the National Mission for Sustainable Agriculture (NMSA).

The technical details and cost of installation for different crop spacing given in the operational guideline of NMSA should be adhered to. The thrust of NMSA is for resource conservation and water use efficiency enhancement through various soil and water conservation/management measures. Since, on farm water management including micro – irrigation is the major constituent of NMSA, the resources available under NMSA may also be utilised for water management activities under NMOOP for effective use of available resources. Further, the developed cluster under NMOOP can be supplemented with activities of NMSA through additional farm based livelihood support and water management activities to convert the NMOOP clusters into integrated farming system clusters. Appropriate convergence is, therefore, necessary at field level to make both the Missions complimentary and result oriented.

9.1.2.8 Pipes for carrying water from source to the field

Traditionally the farmers are taking water from source to fields through open kuccha channels. The loss of water in these channels is 40-50%, therefore, the support will be provided to the farmers @ 50% of the cost limited to ₹ 25/- per meter with maximum limit of unit length of 600 meters and cost of ₹ 15,000/- per farmer for water carrying pipes of all types i.e. PVC, HDPE etc, and of all sizes. This will be provided to the farmers having accessible source of water and with or without sprinklers system.

9.1.2.9 Seed Storage bins

Farmers often use farm saved seeds, which deteriorates, if they are not stored with adequate care and safety. Considering the importance

of farm saved seeds and need to store them properly, it is proposed to distribute seed bins to oilseeds growers under the Mission. The support will be provided to the farmers @ 25% of the cost limited to a maximum of ₹ 2000/- per bin of 20 qtls capacity and to a maximum of ₹ 1000/- per bin of 10 qtls capacity. Only one bin per farmer under MM-I of Oilseeds is to be provided.

9.1.2.10 Seed Treatment Drums

Seed treatment is of paramount importance, particularly, in case of farm saved seeds. NMOOP envisages 100% treatment of seeds with fungicides, insecticides and bio-fertilizers of all oilseed crops. In order to encourage the farmers for seed treatment the use of seed treating drums will be promoted under the Mission. The support will be provided to the farmers for seed treatment drums of 20 Kg and 40 Kg capacity @ 50% of the cost limited to ₹ 1750 and ₹ 2000/- per unit respectively

9.1.3 Transfer of Technology

Training, demonstrations, publicity etc. have

proven effective instruments in developing technical aptitude in farmers and extension functionaries involved in agriculture. The technology generated through ICAR/SAUs/ KVKs and other R&D organizations for achieving higher productivity in oilseeds cultivation needs to be disseminated effectively among the farmers. Provision have been made under MM-I to support effective transfer of technology in oilseeds cultivation.

9.1.3.1 Block Demonstrations

Demonstration of improved package of practices including intercropping will be organized by the Department of Agriculture of the State Governments as per the targets approved in Annual Action Plan (AAP) of the State. To conduct block demonstrations, assistance will be given to meet the expenses/ cost of critical inputs like seed, seed treatment, micronutrients, organic/bio agents, organic/bio fertilizers, eco friendly light traps (NCIPM model) etc, at the rate, as proposed in the table below:

Crop	Assistance (₹/ha)
Groundnut	7500
Soybean	4500
R & M	3000
Sunflower	4000
Sesame/Safflower/castor	3000
Linseed	3000
Niger	3000

All block demonstrations should be integrated, demonstrating the impact of seeds and other technologies together. There shall be no separate demonstration for separate technologies. Block demonstrations should be

organized in cluster mode with a contiguous area of fifty ha in a village/villages/block except hilly regions/terrains, where the size of the cluster should not be less than ten ha. One demonstration will be allowed to

one farmer with a ceiling of one Ha under each crop. The assistance will be on pro-rata basis with the reduction in area as per availability of land with individual farmer. The Department of Agriculture of the State Governments will be required to prepare plan for demonstration of technology for each demonstration in advance. Maximum 10% cost of block demonstration could be utilized for preparation of sign boards/printed material etc and 90% expenditure to be made for providing inputs and technology at farmers' field. **Expenses in conducting Block demonstration shall not exceed 12.5% of the allocation made for AAP. All demonstrations should be GPS based & documented with the farmers, village, Block & district names and**

detailed in the NMOOP website.

9.1.3.2 Block demonstrations on Polythene Mulch Technology in Groundnut

The polythene mulch has proved to be an useful technology in increasing the yield of groundnut. The polythene mulch helps in controlling weeds and moisture losses in groundnut field. Farmers will be encouraged to use bio-degradable polythene mulch sheets for which support will be provided for a maximum area of 1 ha per farmer beneficiary for organizing demonstration under this component in the area/ zone recommended by the Directorate of Groundnut Research (ICAR). The assistance for demonstration on polythene mulch will be as under:

Crop	Assistance (₹/ha)
Groundnut (Demo. Inputs)	7500
Groundnut (Mulch)	4000
Total	11500

9.1.3.3 Frontline demonstration (FLD) by ICAR

ICAR will be the nodal agency for conducting Frontline demonstrations on oilseeds under the Mission. Front line demonstrations (FLDs)

will only be conducted by National Agricultural Research System (NARS) i.e. ICAR etc. The assistance for FLDs per ha under various oilseeds crops are given in the table below:

Crop	Assistance (Rs/ha)
Groundnut	8500
Soybean	6000
R & M	6000
Sunflower	6000
Sesame/Safflower/castor/ Linseed/Niger	5000
Polythene Mulch Technology in Groundnut	12500

FLD will be a part of the Annual Action Plan (AAP) prepared by ICAR. Maximum of one demonstration will be allowed to one farmer

for an area of one hectare under each crop. The size of FLD plot will be of one ha but not less than 0.4 ha and assistance will be on pro-

rata basis. 10% of FLD fund will be utilized by implementing agency for preparation of report, monitoring and organizing farmers' fair/melas etc. Need based support will be provided to ICAR for undertaking front line demonstration on use of improved farm implements including intercropping at farmer's field.

9.1.3.4 Integrated Pest Management (IPM)/ Integrated Technology demonstration in Farmers Field School (FFS) mode.

The Department of Agriculture of the State Governments will organize Farmers Field School (FFS) of various oilseed crops to impart training on Integrated Pest Management (IPM) strategies to the farmers on farmer facilitator's field so that a large number of farmers can see live demonstration of IPM and various other technologies. FFS is a season long programme to impart training to the farmers on one pre-determined/fixed day in a week throughout the season in various aspects of production & protection technologies. 30 oilseeds cultivating farmers including local field staff from the village will be selected as trainees. FFS training is field oriented discovery

based, learning by doing & participatory management. FFS is a "learning field" where farmers conduct experiments & comparison trials. The training curriculum will be based on local needs. FFS will be conducted in the morning and for about 4-5 hours. The total number of sessions in a season will be fourteen (14). Agro-Eco-System Analysis (AESAs) is one of the main FFS activity, through which farmers make crop management decision. At the end of FFS, farmers are expected to grow healthy crop by conserving natural pest enemies of crop and become experts in taking right crop management decisions in IPM. FFS will be conducted under the supervision of Technical staff of the Department of Agriculture of the State Government. A separate manual of FFS will be developed by the Department of Agriculture for each of the oilseeds crops so that uniformity can be maintained across the country. Maximum of 1 FFS on 1000 hectare of a crop area will be organized by the Department of Agriculture of the State Government including use of bio-agent and bio-pesticides etc. The details of item wise breakup of cost of FFS, are given below:

S. No.	Activities	Amount in ₹
1	Training material including IPM kit @ 150/- per kit	4500.00
2	IPM literature & agricultural implements for cultural/mechanical practices @ 100/- per trainee	3000.00
3	Pheromones/bio-pesticides, emergency spray, other relevant training material including planting of at least 100 neem trees	2000.00
4	Contingent expenditure, banner during inauguration of FFS	1800.00
5	Contingent expenditure on POL/hiring of vehicles	2500.00
6	Refreshment for 14 sessions	8400.00
7	Farmers' Field Day (one day) Miscellaneous contingent expenditure	1500.00
8	Honorarium for 2 facilitators/trainers @ ₹ 1500/- each for complete season.	3000.00
Total expenditure for conducting one FFS		26,700.00

9.1.3.5 Training of Farmers

As per the norms of ATMA, support to the States' Departments of Agriculture @ ₹ 24000/ training will be provided for a batch

of 30 farmers for 2 days and @ ₹ 400 per participants/day will be provided to organize the trainings to the farmers. The breakup of expenditure on farmer training, is as under:

Components	Rate	Amount (₹)
Training material/stationery/venue cost/ Audio-visual aids etc	₹ 2500/- per training	2500.00
Dormitory/Travel/Transport etc	₹ 4500/- per training	4500.00
Honorarium to SMS/Scientist etc	₹ 250/lecture X 8 Lectures in two days	2000.00
2 Meals/Refreshment for farmers	₹ 250/day X 30 farmers X 2 days	15000.00
Total		24000.00

9.1.3.6 Training of Extension Officers/ Workers/input dealers

The extension officers and other field functionaries are first source of information to the farmers. Besides, it is observed that input dealers (seeds, pesticides, fertilizers, machinery etc) are also important source of information to the farmers. It is felt that extension officials and input dealers need to be trained and made aware of the new

technologies and developments in oilseeds cultivation so that they communicate the same to the farmers to come in their contacts. Support will be provided @ ₹ 900/- per participant per day for a batch of 20 participants of extension officials and input dealers for organizing orientation/refresher training. ICAR could also organize such training to them provided that is included in their FLD Annual Action Plan.

Components	Rate	Amount (₹)
Training material/stationery/venue cost/Audio-visual aids etc	₹ 5000/- per training	5000.00
Lodging/Travel/Transport/Visits etc	₹ 15000/- per training	15000.00
Honorarium to Trainer/Scientist	₹ 500/lecture X 8 Lectures in two days	4000.00
2 Meals/Refreshment for officers/ extension workers	@₹ 300/day X 20 officers/ extension workers X 2 days	12000.00
Total		36000.00

9.1.3.7 Contract Research

TMOP Division has already undertaken few contract research projects through ICAR/ICRISAT etc. during the Eleventh Plan period. Funding

of these projects will be continued during the Twelfth Plan period for their completion. No new contract research projects will be undertaken during the Twelfth Plan period.

9.1.3.8 Local Initiatives, Contingency including Monitoring & Evaluation and operational costs including Consultant Services, Exposure visits of farmers/Seminar/Conference/Tilhan mela etc.

The states will be allowed to utilize 1.0 % of the total allocation under Mini Mission-I as contingency for monitoring & evaluation including operational costs, engagement of consultants. The following activities will be covered under this intervention –

1. Support for publicity of the programme by implementing states under Mini Mission - I on Oilseeds.
2. States will be allowed to engage state level consultants/ supporting staff as Technical Support Group (TSG) purely on contractual basis. Hiring of vehicles/ Monitoring of scheme/attending workshop/meetings by Mission staff etc can be undertaken except for capital investments like, purchase of vehicles, mobiles, laptops, iPads etc.
3. Support for organizing exposure visits (inter and intra state) of farmers and/ or officials and for organizing Seminar/ Conference/Workshop/Tilhan Mela etc, by the implementing states on oilseed crops & its technologies and support to states for use of ICT.
4. Concurrent/Mid Term and end of the Plan period evaluation of Mini-Mission components by an independent agency.
5. Any other intervention (s) in the state as state specific local initiative, which may be crucial for effective implementation & adoption of best practices in increasing production but productivity of oilseeds under the programme but not covered as an intervention under MM-I, with the approval of GOI and included in the AAP. The State may include such interventions with subsidy not more than 50% of the cost of the item/services.

9.2 Mini Mission-II (MM-II) on Oil Palm:

The Department of Agriculture/Horticulture of the State Governments will be the Nodal agency for undertaking area expansion programme of Oil Palm in the States under Mini Mission-II of NMOOP.

9.2.1 Area Expansion Inputs

9.2.1.1 Supply of Planting Material

Quality of planting materials used greatly determines the productivity and production and therefore, the success of cultivation of a crop. It is only with use of good planting materials coupled with proper management practices that potential yield levels can be achieved. Assistance will be provided to the farmers through the State Department of Agriculture/Horticulture @ 85% of the cost of planting material limited to ₹ 10,000/- per ha for entire land holding/planting area of the farmer.

9.2.1.2 Maintenance Cost of new plantations for three years

Oil Palm starts producing Fresh Fruit Bunches (FFBs) after 4 to 5 years of its plantation, therefore, it becomes essential to maintain the plantations made. Assistance will be given to the farmers under NMOOP @ 50% of the cost during gestation period for 3 years with a ceiling of ₹ 14000 per ha upto 25 ha. This may vary from State to State according to the Land Ceiling Act of the State Government. The illustrative breakup of gestation period assistance for 3 years of plantations starting from the 2nd year of new plantation, will be as under;

2nd Year	-	Rs 3500/ha
3rd Year	-	Rs 4500/ha
4th Year	-	Rs 6000/ha

9.2.2 Production Inputs

9.2.2.1 Drip Irrigation

An Oil Palm tree requires from 200 to 300 litres of water per day. Therefore, it is necessary to irrigate the plantation under taken and use available water resources judiciously. If irrigation water is limited and land is of undulated terrain, drip irrigation will be of advantage to achieve the targeted FFBs production. Support will be given to the oil palm growers under MM-II for installing micro irrigation system as per National Mission for Sustainable Agriculture (NMSA) guidelines.

The technical details and cost of installation for different crop spacing given in the operational guideline of NMSA should be adhered to. The thrust of NMSA is for resource conservation and water use efficiency enhancement through various soil and water conservation/management measures. Since, on farm water management including micro – irrigation is the major constituent of NMSA, the resources available under NMSA may also be utilised for water management activities under NMOOP for effective use of available resources. Further, the developed cluster under NMOOP can be supplemented with activities of NMSA through additional farm based livelihood support and water management activities to convert the NMOOP clusters into integrated farming system clusters. Appropriate convergence is, therefore, necessary at field level to make both the Missions complimentary and result oriented.

9.2.2.2 Supply of Diesel/Electric Pump sets

Oil Palm growers to take up 2 ha or more area under Oil Palm plantation will be provided assistance for pump set (diesel/electric/petrol) of capacity up to 10HP @ 50% of the cost

limited to ₹ 15000/pump set as per the norms of SMAM. The distribution of pump set could be in addition to the drip irrigation.

9.2.2.3 Bore well/water harvesting structure/ponds at oil palm farm

The assistance as per the NMSA guidelines i.e. for construction of bore wells /tube wells, assistance @50% limited to ₹ 25000/- per unit subject to condition that these are not installed in critical, semi-critical and over exploited ground water zones.

In case of Water Harvesting structures/ponds/tanks for individual farmer, 50% of cost (Construction cost – ₹ 125 for plain/₹ 150 per cubic meter for hilly areas) limited to ₹ 75000 for plain areas and ₹ 90000 for hilly areas including lining is proposed under NMSA. For smaller size of the ponds/dug wells, cost will be admissible on pro rata basis. Cost for non-lined ponds/tanks will be 30% less and will be given @ 50% of the cost limited to ₹ 50,000/ per dug-well/ponds/water harvesting tanks/structure per farmer only for oil palm garden/field of the farmer.

9.2.2.4 Establishment of Seed Gardens

Assistance will be provided for setting up of new oil palm seed garden and for strengthening of existing seed gardens under MM-II. The details of assistance available, are as under:

- (i) Need based assistance for maintenance/strengthening of existing seed gardens.
- (ii) Setting up of new seed gardens in Andhra Pradesh, Gujarat, Karnataka, Mizoram, Orissa & Tamil Nadu (Recommended by Chaddha Committee) or other suitable

state. The State Governments may also setup/start joint venture/lease out seed gardens to farmers' Self Help Groups/FIGs/Women Group/Cooperative Societies/FPOs.

- (iii) One time assistance for a maximum amount ₹ 10.00 lakh as subsidy for setting up a new seed garden in 15 ha area by oil palm farmers association/co-operative etc. through State Government could be provided within the State AAP.
- (iv) The seed garden may be developed over an area of 15 ha each as a Revolving Fund Scheme with the assistance of ₹ 30.00 lakh with a breakup of ₹ 10 lakh in the first year and ₹ 2 lakh each for 2nd, 3rd, 4th, 5th and 6th year. In 7th year, a block grant of ₹ 10 lakh be provided. From 8th year onwards the scheme is likely to become self supportive.

9.2.2.5 Inputs for Intercropping in oil palm

Support will be provided to the farmers from first to fourth year of plantation for intercropping in oil palm fields @ 50% of the cost limited to ₹ 3000/ha for purchase of seeds/fertilizers/INM/IPM/fertigation/tree guards and PP chemicals etc. Of this, 75% funds will be for procurement of fertilizers/seeds and remaining 25% for crop protection inputs for inter cropping.

9.2.2.6 Construction of vermi-compost units at oil palm fields

Support will be available @50% of the cost limited to ₹ 15000/vermi compost unit with a size of 15m length, 0.9m width and 0.24 m depth at oil palm field/garden of the farmers.

9.2.2.7 Machinery & tools

Support will be provided for equipments/tools upto 50% of the cost and or upto the amount, for equipments/tools, as provided under:

- (i) Manually handled/high reach oil palm cutter - ₹ 1500/- per unit,
- (ii) Oil Palm protective wire mesh - 15000/- per unit,
- (iii) Motorized Chisel - ₹ 10000/- per unit
- (iv) Aluminium Portable ladder - ₹ 3000/- per unit
- (v) Chaff cutter for chaffing of oil palm leaves (oil palm farmers only) - ₹ 7000/- per unit
- (vi) Small tractor with trolley : 25% of the cost of procurement subject to a ceiling of ₹ 0.75 lakh. Additional 10% assistance to SC/ST/Small/Marginal Farmer/Women, Groups >5 members FPOs and NE States to a ceiling of ₹ 1.00 lakh per unit.
- (vii) Any other machinery recommended by ICAR/SAUs, which is useful to the oil palm growers could be included under local initiatives/contingency under AAP
- (viii) Import of machinery viz; mechanical sprayer for young oil palm fields, mechanical oil palm harvesting machine, compact FFBs transporter/ sprayers etc with specific approval of the Standing Committee of NMOOP.

The states may also support Farmer's Association/Self Help Groups/Farmers Groups/Women Groups/Cooperative Societies for this component under AAP.

9.2.2.8 Special component for NE/Hilly States/LW Areas/regions

FFBs are highly perishable in nature and therefore, require crushing within 24 hrs of harvesting. Therefore, creation of processing units is a pre-requisite for under taking area expansion of oil palm. Support will be available to the oil palm growers of NE/LW/Hilly States/Areas for procurement of their produce. In order to provide a complete package for oil palm development, support will be available to the Department of Agriculture/Horticulture of the State Government, as detailed below:

- (i) 50% of the actual cost estimated by PWD/CPWD for roads from oil palm field to nearest FFB collection/processing centre. This activity can be taken up on project basis by the implementing states and will require separate approval from the Standing Committee of NMOOP. This support will depend on the resources available under the Mission and the policy adopted time to time.
- (ii) 50 % of the cost limited to ₹ 250.00 lakh for a FFB processing unit of 5.00 MT/Hr for newly planted oil palm areas. The assistance will be given to the States Government agencies/ Cooperative sector/Government Recognized Farmers' Associations for setting up of a mill where sufficient area to run a mill of 5 MT/hr capacity is under production of FFBs. The Farmers' Associations/Cooperatives will be eligible for subsidy if their proposal is approved by the State Governments and will be available as back-ended subsidy through banks for plant and equipments. This support will also depend on the

resources available under the Mission and the policy of the Government at that time.

- (iii) Subsidy will also be given for creation of additional capacity for crushing of FFBs, at least by 1MT/Hr @25% of the cost limited to ₹ 25.00 lakh to the existing units of State Government agencies/Cooperatives etc. based on the discretion as elaborated in para above.

9.2.3 Transfer of Technology Components

9.2.3.1 Training of Farmers

As per the norms of ATMA, support @ ₹ 24000/training for a batch of 30 farmers for 2 days will be provided to organize the trainings to the farmers. The breakup of expenditure on farmers' training is as under:

Components	Rate	Amount (₹)
Training material/stationery/ venue cost/ Audio-visual aids etc	₹ 2500/- per training	2500.00
Dormitory/Travel/Transport etc	₹ 4500/- per training	4500.00
2 Meals /Refreshment for farmers	₹ 250/day X 30 farmers X 2 days	15000.00
Honorarium to SMS/ Scientist etc	₹ 250/lecture X 8 Lectures in two days	2000.00
Total		24000.00

9.2.3.2 Training of Extension Officials/ Workers/Input dealers

The extension officers and other field functionaries are first source of information to the farmers. Besides, it is observed that input dealers (seeds, pesticides, fertilizers, machinery etc) are also important source of information to the farmers. It is felt that extension officials and input dealers need to be trained and made aware of the new technologies and developments in oilseeds cultivation so that they communicate the same to the farmers to come in their contacts. Support will be provided @ ₹ 900/- per participant per day for a batch of 20 participants of extension officials and input dealers for organizing orientation/refresher training. ICAR could also organize such training to them provided that is included in their FLD Annual Action Plan.

9.2.3.3 Demonstrations on Oil Palm cultivation at Farmers field

Assistance will be provided for conducting

demonstration on oil palm cultivation at farmers fields/ farms of State Governments/ SAUs/ KVKs/ICAR with a view to demonstrate cultivation and management practices, plant protection measures to achieve potential yield of oil palm to the farmers. The details for conducting such demonstration by ICAR/State's Department of Agriculture/ Horticulture, will be as under:

- (i) Maximum of 5 demonstration of 1 ha each in a block of new plantation of 500 ha or above will be taken up on farmers' field. If blocks of 500 ha plantation is not available, demonstration could be arranged for lesser area, keeping in view the availability and suitability of the area.
- (ii) Assistance for demonstration in a new oil palm Block/district will be provided @ 85% of the cost of planting materials limited to ₹ 10,000 per ha for planting materials and @50% of the maintenance cost during gestation period on demonstration fields for the next 3 years of new plantations

under demonstrations with a ceiling of ₹ 14,000 per ha. The illustrative breakup of gestation period assistance for maintenance of new plantations under demonstration for 3 years starting from the 2nd year of the new plantation, is given as under:

2nd Year	-	₹ 3500/ha
3rd Year	-	₹ 4500/ha
4th Year	-	₹ 6000/ha

Balance cost, if any, on planting material, cultivation and other expenditures may be met either by the farmer/State government.

9.2.3.4 Research & Development (R&D) Schemes

Need based support will be given for ongoing schemes of ICAR for maintenance of existing seed gardens & ongoing R & D schemes viz; leaf analysis lab, training of officials and testing of genotype etc as was approved in the Tenth and Eleventh plan period on project mode by the Department of Agriculture & Cooperation. Financial support will also be provided to the Directorate of Oil Palm Research (ICAR) for import of germplasms of oil palm.

9.2.3.5 Training infrastructure support to ICAR/SAUs etc

Need based support will be provided to ICAR Institutes on project mode to strengthen training infrastructure for oil palm growers/farmers/officials.

9.2.3.6 Local Initiatives, Contingencies including Monitoring & Evaluation and Operational Costs including Consultant services, Exposure

visits of Farmers/ Seminar/ Conference etc.

The States will be allowed to utilize 1.0 % of the total allocation under Mini Mission-II for contingency expenses including monitoring & evaluation and operational costs including engagement of consultants. The following activities will be covered under this intervention –

1. Support for publicity programme by the implementing states on Oil Palm under Mini Mission - II.
2. States will be allowed to engage state level consultants/supporting staff as Technical Support Group (TSG), purely on contractual basis. Hiring of vehicles/ Monitoring of the scheme/attending workshop/meetings by Mission staff etc, can be undertaken except for capital investment like purchase of vehicles, mobiles, laptops, iPads etc.
3. Support for organizing exposure visits (inter and intra state) of farmers and/or officers and for organizing Seminar/Conference/Workshop etc by the implementing states on oil palm crop & its technologies and support to states for use of ICT.
4. Concurrent/Mid Term and end of the Plan period evaluation of Mini-Mission Components by an independent agency.
5. Any other interventions in the state as state specific local initiative which may be crucial for effective implementation & adoption of best practices in increasing production and productivity of palm oil and to encourage farmers to grow oil palm crop under the programme but not covered as an intervention of the MM-II, with the approval of GOI and included in the AAP. The State may include such interventions with subsidy not more than 50% of the cost of the item/services.

9.3 Mini Mission-III (MM-III) on Tree Borne Oilseeds (TBOs)

Mini Mission-III will be implemented through the Departments of Agriculture or Horticulture of the State Governments. The State Governments may also involve other line Departments/Organizations viz; Department of Forest/Central or State level Corporations/Institutes of the Ministry of Forest & Environment of the Government of India/ICAR/SAUs/CSIR/ICFRE/CFTRI/TERI/IITs/KVIC etc. The details of intervention proposed under MM-III on Tree Borne Oilseeds (TBOs) are as under:

9.3.1 Area expansion inputs

An area of 4375 hectares will be undertaken for systematic plantation in the States for 11 identified TBOs namely Karnaja, Neem,

Jatropha, Wild Apricot, Simarouba, Kokum, Tung, Mahua, Jojoba, Cheura and Olive. The production from this plantation will start after a gestation period of 5-6 years.

9.3.1.1 Integrated development of Nurseries & plantation on the wasteland developed under MM-III as well as existing wasteland/ degraded forest land.

Support to the nodal/central agency of MM-III on TBOs in AAPs, which may involve cooperatives/self help groups/FIGs/FPOs etc., for undertaking systematic plantation of 11 Tree Borne Oilseeds on the wasteland developed under MM-III of TBOs of NMOOP as well as existing wasteland/ degraded forest land @ 100% of the cost of plantation with the ceiling for different TBOs is as under:

S. No.	Name of TBO plant	No. of plants per ha.	Plantation cost per ha (₹)
1	Simarouba	500	24,000
2	Neem	400	17,000
3	Jojoba*	2500	35,000
4	Karanja	500	20,000
5	Mahua	200	15,000
6	Wild apricot	400	16,000
7	Jatropha	2500	41,000
8	Cheura	250	14,000
9	Kokum	250	15,000
10	Tung	500	21,000
11	Olive*	200	48,000

* Additional assistance will be provided for drip as per approved norms, if required.

9.3.1.2 Maintenance of Plantation:

Support to the nodal/central agency of MM-III for undertaking maintenance of TBOs plantation of the prescribed 11 Tree Borne

Oilseeds during gestation period from 2nd year onwards @ 100% of the cost of maintenance of plantation with ceiling for different TBOs is detailed on next page:

S. No.	Name of TBO plant	Gestation period (years)	Maintenance cost of plantation during gestation period (₹). Ceiling per ha(₹)
1	Simarouba	5	2000
2	Neem	5	2000
3	Jojoba	4	3200
4	Karanja	4	2000
5	Mahua	8	2000
6	Wild apricot	4	2000
7	Jatropha	2	3200
8	Cheura	6	2000
9	Kokum	6	2000
10	Tung	4	2000
11	Olive	4	3200

9.3.2 Production Inputs

9.3.2.1 Incentives for undertaking Intercropping with TBOS

Support to the nodal/central agency of MM-III for intercropping with oilseeds, pulses and other crops during gestation period @ ₹ 1000/ ha for critical inputs for various types of intercrops. This assistance will be admissible only to those TBOs farms who have undertaken plantation of Tree Borne Oilseeds under MM-III.

9.3.2.2 Research and Development on TBOs

Support will be provided for need based Research & Development projects on 100% funding basis from MM-III to the institutes like ICAR, ICFRE, CSIR and IITs for undertaking R & D activities for improvement of yield & oil content, standardization of package of practices for intercropping, plantation techniques through various methods like seeds, cuttings, tissue culture, designing and development of pre-processing and processing tools, value addition and Post

Harvest Techniques of various Tree Borne Oilseeds (TBOs) and analysis of various other parameters of TBOs for their alternate use. The R&D programmes will be target based & duration restricted to the Twelfth Plan period only. No regular staff will be employed under R&D component.

9.3.2.3 Distribution of pre-processing, processing and oil extraction equipment

Support to the nodal/central agency of Mini Mission-III for installation of TBO seeds processing/Oil Extraction units, where sufficient TBO seeds are produced and collected for extraction of oil and more than 60% capacity of the unit can be utilized. Farmers associations/ FPOs/FIGs/SHGs/Women Groups, cooperatives/federations would be eligible for assistance for installation of Pre-processing, Processing and oil extraction equipments/ devices under Mini Mission-III for the prescribed TBOs. Back ended credit linked subsidy (30% subsidy, 50% loan, 20% own share) with

assistance restricted to 30% of project cost with ceiling as under, will be provided:-

(i) Government/Semi Govt. Organizations: Maximum subsidy of ₹ 25.00 lakhs to each Department/ Organization@ ₹ 6.25 lakh per project for establishment of four units.

(ii) FPOs/SHGs/FIGs/Cooperatives/ Individuals – Maximum subsidy of ₹ 6.50 lakhs for setting up one unit/project per organization/individual.

Component wise details of assistance under AAP are as follows:

S. No.	Particulars & Capacity of components/ machineries	Estimated cost in ₹	Admissible subsidy* (₹)
For Neem, Jatropha, Karanja and Tung developed by IIT, N Delhi			
1	Neem Depulper (Manual) - 20 Kg/hr	40,000	12,000
2	Karanja Decorticator - 50 Kg/hr	1,00,000	30,000
3	Tung Decorticator - 40 Kg/hr	1,00,000	30,000
4	Jatropha Decorticator (Manual) - 40 Kg/hr	50,000	15,000
5	Neem Decorticator (Mechanical with 2 H.P. Motor) - 100 Kg/hr	80,000	24,000
For Jojoba, Mahua & Wild Apricot developed by Oil Technological Research Institute, JNTU, Ananthpur (A.P.)			
6	Jojoba Seed Dehuller - 60 Kg/hr	50,000	15,000
7	Mahua Seed Decorticator - 50 Kg/hr.	50,000	15,000
8	Wild Apricot Decorticator - 45 Kg/hr	50,000	15,000
For other TBOs (Simarouba, Cheura, kokum, Olive and Rubber)			
9	Depulper - 20 Kg/hr	40,000	12,000
10	Decorticator - 40 Kg/hr	50,000	15,000
11	Dehuller - 50 Kg/hr	50,000	15,000
12	Drier - 40 Kg/hr	50,000	15,000
13	Cleaner/grader - 100 Kg/hr	30,000	9,000
Installation of oil Expeller for above TBOs			
14	Oil Expeller 1 Tonne per day (TPD)	2,00,000	60,000

* 50% Subsidy on actual cost restricted to cost ceiling

9.3.2.4 Support to TRIFED

TRIFED under the Ministry of Tribal Affairs,

Government of India will be involved in implementation of TBOs development

programme under Mini Mission-III for the identified activities/components on project mode. A lump sum grant upto ₹ 50 lakhs per annum will be provided to TRIFED for promotion of collection of TBO seeds and facilitating their marketing on project mode preferably in the tribal areas (forest/non forest). No support for manpower, machinery, infrastructure development will be provided under the component.

9.3.3 Transfer of Technology Components

9.3.3.1 Training of Farmers

As per the norms of ATMA, support @ ₹ 24000/ training for a batch of 30 farmers for 2 days and @ ₹ 400 per participants/day will be provided to organize the trainings to the farmers, who have undertaken plantation of TBOs. The breakup of expenditure on farmer training is as under:

Components	Rate	Amount (₹)
Training material/stationery/venue cost/ Audio-visual aids etc	₹ 2500/- per training	2500.00
Dormitory/Travel/Transport etc.	₹ 4500/- per training	4500.00
Honorarium to SMS/Scientist etc	₹ 250/lecture X 8 Lectures in two days	2000.00
2 Meals/Refreshment for farmers	₹ 250/day X 30 farmers X 2 days	15000.00
Total		24000.00

9.3.3.2 Training of Extension Officials/ Workers

The extension Officials and other field functionaries are first source of information to the farmers. It is felt that extension Officials/ Workers need to be trained and made aware of the new technologies and developments

in cultivation /plantation of TBOs so that they communicate the same to the farmers to come in their contacts. Support will be provided @ ₹ 900/- per participant per day for a batch of 20 participants of Extension Officials for organizing orientation/refreshment training.

Components	Rate	Amount (₹)
Training material/stationery/venue cost/ Audio-visual aids etc	₹ 5000/- per training	5000.00
Lodging/Travel/Transport/Visits etc	₹ 15000/- per training	15000.00
Honorarium to Trainer/Scientist	₹ 500/lecture X 8 Lectures in two days	4000.00
2 Meals/Refreshment for officers/ extension workers	@₹ 300/day X 20 officers/ extension workers X 2 days	12000.00
Total		36000.00

9.3.3.3 Local Initiatives, Contingency including Monitoring & Evaluation and Operational Costs. Exposure visits of Farmers/ Seminar/ Conference/Mela etc.

Support to nodal/central agency for area expansion programs will be provided under MM-III @ 1% of total Annual Action Plan of the nodal/central agency. Support will be given for monitoring and evaluation, TA, POL, publications, publicity, seminar/workshop/exhibitions/exposure visits/conference etc. The states will be allowed to incur expenditure on publicity, meeting/seminars/conference etc, hiring of services of experts, ICT tools/equipments, hiring of vehicles, telephone expenditure, stationery etc. No permanent post will be created under MM-III and no support for manpower will be provided under this component. Purchase of vehicles,

mobiles, laptops, ipads and on infrastructures including civil/electrical, building etc, will **not** be allowed.

The contingency expenditure under Mini Mission-III on TBOs will include actual expenditure incurred by NOVOD Board for administrative & establishment purposes, for engagement of consultants/ services etc, as approved by the Chairman of the Standing Committee within the outlay of the MM-III/ Mission. 100% Central Government grants will be available to NOVOD Board as per the provisions of section 12 (1) (b) of NOVOD Board Act 1983, to meet the expenses as detailed under section 12 (2) of NOVOD Board Act 1983. The component-wise tentative cost of NOVOD Board @ 100% GOI support through Grants will be, as under:

Head	2014-15	2015-16	2016-17	Total (₹ in Crore)
Employees salary & allowances (32 on roll out of 46)	2.45	2.66	2.80	7.91
Establishment & administrative expenses	0.65	0.90	1.05	2.60
Monitoring & Evaluation	0.05	0.20	0.25	0.50
One Consultant + 2 SRF	0.11	0.11	0.11	0.33
Total	3.26	3.87	4.21	11.34

9.3.3.4 Other Activities/components/ provisions under NMOOP.

Implementation of NMOOP will entail administrative expenditure/operational cost at national level, therefore the Department of Agriculture & Co-operation (DAC) will retain upto 1% of the total outlay under NMOOP to organize pan India activities including

evaluation, monitoring/Seminar/Workshops, engagement of consultants/technical assistants/ supporting staff etc, or for such administrative contingencies that may arise from time to time. The Standing Committee of NMOOP will be empowered to increase or decrease the administrative expenditure within the mission fund depending upon actual need.

Other Activities/Provisions

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- a. **Technical Support Group (TSG) at National Level:** A Technical Support Group will be engaged at national level (DAC/DOD) through outsourcing agency. TSG will work under the leadership of Mission Director and comprise of 4 consultants (2 for major oilseeds viz., Groundnut, Soybean, Rapeseed & Mustard, Sunflower, 1 for production/protection technology and 1 for Oil Palm) each engaged for a remuneration upto ₹ 70,000/- per month, 5 Technical Assistant each engaged for a remuneration upto ₹ 30,000/- per month, one Jr. Programmer for remuneration upto ₹ 30,000/- per month, four typists and two Data Entry Operators each for remuneration upto ₹ 15,000/- per month. The honorarium for TSG has been fixed at par with the rate adopted by NFSM.
- b. **State Level:** A similar Technical Support Group comprising of one Consultant for each major oilseed crop (area >1 lakh ha) and 02 Technical Assistant under MM-I for oilseeds and one consultant for Oil Palm Development, will be engaged purely on contractual basis at the state level under the leadership of the State Mission Director in each state @ ₹ 50,000/- per month for Consultant and ₹ 25,000/- per month for TAs. No separate staff will be provided for MM-III.
- c. **District Level:** Maximum of two Technical Assistants having basic degree in agriculture with computer skills may be engaged purely on contractual basis with remuneration of ₹ 20,000/- per month to support PMT at District level. No separate staff will be provided for MM-III.
- d. **Annual Awards at National Level:** Three awards for ₹ 50.00 lakh, ₹ 30.00 lakh and 20.00 lakh will be given each year to the best performing states for increase in production/productivity of oilseeds, oil palm & TBOs, respectively. The proposal will be invited from the States in the prescribed format, which will be finally considered by EC of NMOOP for grant of awards.
- e. **Recognition to the farmers:** Eleven farmers will be awarded every year in recognition of their contribution in enhancing production and productivity of vegetable oils in the country. Award will be comprised of cash award of ₹ 1.00 lakh each farmer. Nine awards will be given

for 09 oilseed crops one for oil palm and one for TBOs. Selection of farmers will be based on the recommendations of the State Governments implementing NMOOP subject to ratification/approval by the Executive Committee of NMOOP.

f. **In country & abroad training/exposure visits of officials of DAC/DOD etc.:**

Actual cost of expenses will be borne for officers of DAC/DOC for training/meetings/visits/conference etc, in India & abroad. The Chairman of the Standing Committee of NMOOP may also consider expenses of officials of State Governments. The expenditure on foreign visits/training/meetings will be within the 1% administrative costs retained by DAC at its level for entire the Twelfth Plan period.

g. **Contingency including development of training Infrastructure & strengthening of DAC/DOD:** In order to strengthen and/or to create new training infrastructure, NMOOP will provide need based support.

Support will be provided for Publicity/Seminars/Field Visits/Workshops/Meetings/Conference/Melas at national & state level during the Twelfth Plan period.

h. **Involvement of co-operative sector in other activities:**

A provision has been made under the Mission for involvement of Co-operative Societies, Self Help/Women Groups/FIGs/FPOs etc., in implementation of the Mission. The nodal/central agencies will be encouraged to involve co-operative sector participation for identified & feasible components within 15% of allocation under Annual Action Plan (AAP) for such activities. Agencies like NSC/SFCI/NAFED/KRIBHCO/IFFCO/IFFDC/HIL/Central Multi-State Cooperatives such as NCCF/TRIFED/NCDC/SFAC and institutions like ICAR/SAUs/IITs could also involve co-operative societies under MM-I/MM-II/MM-III with a transparent mechanism for identified activities to the extent of 15% of their approved programme.

Summary of Pattern of Assistance

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The components of oilseeds development programme under Mini Mission-I on Oilseeds of NMOOP for Twelfth Plan period are at Annexure-I (a), (b) and (c). The components of Oil Palm development programme under Mini Mission-II on Oil Palm of NMOOP for Twelfth

Plan period are at Annexure- II (a), (b) and (c). The components under Mini Mission-III on Tree Borne Oilseeds (TBOs) of NMOOP for Twelfth Plan period are at Annexure- III (a), (b) and (c). The components / activities to be organised at National level are at Annexure- IV.

12 Annexure

Annexure I (a)

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

S. No.	Components	Pattern of funding	Rate of Assistance
1	Production of breeder seed	100%	ICAR is the nodal agency for the production of breeder seeds of all crops including oilseeds. No support is proposed for breeder seed production programme under NMOOP during Twelfth Plan period. Only the financial liability of ₹ 12.26 crores approximately on the breeder seed production under ISOPOM upto XI plan has been considered under the NMOOP.
2	Purchase of breeder seed / parental lines (for production of hybrid seed)	100%	NMOOP will support purchase of breeder seeds from ICAR/SAUs etc by the States/seed agencies at the full cost of 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 ₹ 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-

S. No.	Components	Pattern of funding	Rate of Assistance
5	Distribution of certified seed	75:25	50% of the cost limited to ₹ 1200/quintal for varieties/composites of oilseeds which are not older than 10 years.
			Hybrids: Assistance for distribution of certified hybrids seeds @ 50% of the cost with a ceiling of ₹ 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.
			Agencies: 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. Eligibility: Varieties/hybrids not older than 5 years.

Annexure I (b)

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

S. No.	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 ₹ 600/- per equipment (additional 10% assistance to SC/ST/Small/Marginal Farmers/Women, Groups >5 members FPOs and NE States to a ceiling of ₹ 800/- per unit). Seed treating drum with a capacity of 20 kg and 40 kg @ 50% assistance subject to ceiling of ₹ 1750/- and ₹ 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 ₹ 3000/- per unit (additional 10% assistance to SC/ST/Small/Marginal Farmers/Women, Groups >5 members FPOs and NE States to a ceiling of ₹ 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 ₹ 8000/- per unit (additional 10% assistance to SC/ST/Small/Marginal Farmers/Women, Groups >5 members FPOs and NE States to a ceiling of ₹ 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 ₹ 500/- ha.
3	Distribution of gypsum/pyrite/ liming/dolomite/ Single Super Phosphate etc	75:25	50% cost of the material + transportation limited to ₹ 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 ₹ 500/ha for NPV.

S. No.	Components	Pattern of funding	Rate of Assistance
5	Supply of Rhizobium culture/ Phosphate Solubilising Bacteria (PSB)/ Zinc Solubilising Bacteria (ZSB)/ Azatobactor / 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 ₹ 300 per ha for culture in powder/granules/ liquid forms.
6	Supply of Improved farm implements	75:25	<p>i. Manually/Bullock drawn implements including Chiseller @ 40% of the cost limited to ₹ 8000/- per implement (additional 10% assistance to SC/ST/Small/Marginal Farmers/Women and NE States to a ceiling of ₹ 10,000 per unit).</p> <p>ii. 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 ₹ 50000/- per unit and additional 10% assistance to SC/ST/Small/Marginal Farmers/Women and NE States with a ceiling of ₹ 63,000 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 ₹ 25/- per meter with maximum ceiling of 600 meters length and cost of ₹ 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 ₹ 2000/- per bin of 20 qtls capacity and to a maximum of ₹ 1000/- per bin of 10 qtls capacity. Only one bin per farmer will be provided under MM-I.

Annexure I (c)

Pattern of Assistance for Transfer Technology component under

Mini Mission-I (Oilseeds) of NMOOP during XII Plan

S. No.	Components	Pattern of funding	Rate of Assistance																
1	Block demonstrations	75:25	<p>Improved package demonstration including intercropping</p> <p>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:-</p> <table border="1"> <thead> <tr> <th>Crop</th> <th>Rate of Assistance (Rs per ha)</th> </tr> </thead> <tbody> <tr> <td>Groundnut</td> <td>7500</td> </tr> <tr> <td>Soybean</td> <td>4500</td> </tr> <tr> <td>R & M</td> <td>3000</td> </tr> <tr> <td>Sunflower</td> <td>4000</td> </tr> <tr> <td>Sesame/ Safflower/ castor</td> <td>3000</td> </tr> <tr> <td>Niger</td> <td>3000</td> </tr> <tr> <td>linseed</td> <td>3000</td> </tr> </tbody> </table>	Crop	Rate of Assistance (Rs per ha)	Groundnut	7500	Soybean	4500	R & M	3000	Sunflower	4000	Sesame/ Safflower/ castor	3000	Niger	3000	linseed	3000
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Sunflower	4000																		
Sesame/ Safflower/ castor	3000																		
Niger	3000																		
linseed	3000																		
2	Block demonstrations on Polythene Mulch Technology in Groundnut.	75:25	<p>Package for demonstration on poly-mulch on groundnut in the area/zone recommended by Directorate of Groundnut Research (ICAR) @ ₹ 11500/- per ha (₹ 7500/- for input cost and ₹ 4000/- for poly mulch)</p>																
3	(a) Frontline demonstrations (b) Frontline demonstrations on Polythene Mulch Technology in Groundnut	100%	<p>By ICAR and ICRISAT for mandated crop groundnut.</p> <table border="1"> <thead> <tr> <th>Crop</th> <th>Rate of Assistance (₹ per ha)</th> </tr> </thead> <tbody> <tr> <td>Groundnut</td> <td>8500</td> </tr> <tr> <td>Soybean</td> <td>6000</td> </tr> <tr> <td>R & M</td> <td>6000</td> </tr> <tr> <td>Sunflower</td> <td>6000</td> </tr> <tr> <td>Sesame/Safflower/niger/castor/linseed</td> <td>5000</td> </tr> <tr> <td>poly-mulch on groundnut by ICAR.</td> <td>12500</td> </tr> </tbody> </table> <p>Maximum of one demonstration will be allowed to one farmer for an area of one hectare under each crop. The size of the FLD plot will be of one ha but not less than 0.4 ha. The assistance will be on pro-rata basis with the reduction of size of demonstration plot.</p>	Crop	Rate of Assistance (₹ per ha)	Groundnut	8500	Soybean	6000	R & M	6000	Sunflower	6000	Sesame/Safflower/niger/castor/linseed	5000	poly-mulch on groundnut by ICAR.	12500		
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S. No.	Components	Pattern of funding	Rate of Assistance
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	₹ 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	₹ 36000/- per training for a batch of 20 officers for 2 days. (@ 900/- per participant per day)
7	Contract Research	100%	The TMOP Division has already undertaken few contract research projects through ICAR/ICRISAT etc during the Eleventh Plan period and implemented by the Government of India directly. Funding of these projects will continue during the Twelfth Plan period/ remaining approved period as per the approved budget through NMOOP. No new contract research projects will be undertaken during Twelfth Plan period.
8	Local Initiatives, Contingency including monitoring & evaluation and Operational costs including consultant services. Exposure visits of farmers/ Seminar/ Conference/ Tilhan mela etc	100%	The implementing States will be allowed to utilize 1.0 % of their total allocation under MM-I on Oilseeds for contingency expenditure towards monitoring & evaluation and Operational Costs including consultancy. The following activities will be covered under this intervention - <ol style="list-style-type: none"> 1. Publicity under Mini Mission - I on Oilseeds and Exposure visits (inter and intra state) of farmers and/or officers/Seminar/Conference/ Workshop/Tilhan Mela etc. 2. Contingency : States will be allowed to engage state level consultants/ supporting staff as Technical Support Group (TSG) on contractual basis. Hiring of vehicles/ Monitoring of scheme/attending workshop/ meetings etc. Purchase of vehicles will not be allowed. No permanent post will be created under the Mission.

S. No.	Components	Pattern of funding	Rate of Assistance
			<p>3. Organizing workshop/Seminar/Conference etc by States on oilseed crops & its technologies. Support for use of ICT.</p> <p>4. Concurrent/Mid Term and end of the Plan period evaluation of Mini-Mission Components by an independent agency.</p> <p>5. Any other component on increasing production/productivity of oilseeds in state as state specific local initiative, which may be crucial for effective implementation & adoption of best practices in increasing production and productivity of oilseeds under the programme and not covered as an intervention under MM-I with the approval of GOI in their AAPs. The State may include such interventions with subsidy not more than 50% of the cost of the item/services.</p>

Annexure - II (a)

Pattern of Assistance for Area Expansion Inputs component under Mini Mission-II (Oil Palm) of NMOOP during XII Plan

S. No.	Components	Pattern of funding	Rate of Assistance
1	Planting Material	75:25	85% of the cost of planting material limited to ₹ 10,000/- per ha for entire land holding of the farmer.
2	Maintenance Cost	75:25	<p>50% of the cost during gestation period for 3 years with a ceiling of ₹ 14000 per ha.</p> <p>Illustrative Assistance:</p> <p>2nd Year - ₹ 3500/ha</p> <p>3rd Year - ₹ 4500/ha</p> <p>4th Year - ₹ 6000/ha</p>

Annexure - II (b)

Pattern of Assistance for Production Inputs component under Mini Mission-II (Oil Palm) of NMOOP during XII Plan

S. No.	Components	Pattern of funding	Rate of Assistance
1	Drip Irrigation	As Per NMSA Guidelines	As per National Mission for Sustainable Agriculture (NMSA) guidelines.
2	Distribution of Pump sets	75:25	The support for distribution of diesel/petrol/ electric pump sets of capacity up to 10 HP to farmers @ 50% of the cost limited to ₹ 15000/- per pump set as per the norms of SMAM. The distribution of pump set could be in addition to the drip irrigation.
3	Bore well at oil palm farm / water harvesting structure /ponds.	75:25	The assistance as per the NMSA guidelines i.e. for construction of bore wells /tube wells, assistance @50% limited to ₹ 25000/- per unit subject to condition that these are not installed in critical, semi-critical and over exploited ground water zones. In case of Water Harvesting structures/ ponds/tanks for individual farmer, 50% of cost (Construction cost – ₹ 125 for plain / ₹ 150 per cubic meter for hilly areas) limited to ₹ 75000 for plain areas and ₹ 90000 for hilly areas including lining is proposed under NMSA. For smaller size of the ponds/dug wells, cost admissible on pro rata basis. Cost for non-lined ponds/tanks will be 30% less and assistance will be given @ 50% of the cost limited to ₹ 50,000/per dug-well/ponds/water harvesting tanks/structure per farmer only for oil palm garden/field of the farmer.
4	Establishment of Seed Gardens	75:25	Support through the States' Department of Agriculture/Horticulture as under: (i) Need based assistance for maintenance/ strengthening of existing seed gardens. (ii) Setting up of new seed gardens in Andhra Pradesh, Gujarat, Karnataka, Mizoram, Orissa & Tamil Nadu (Recommended by Chaddha Committee) or other suitable state. The State Governments may also setup/ start joint venture/lease out seed gardens to farmers' Self Help Groups/FIGs/ Women Group/Cooperative Societies/FPOs.

S. No.	Components	Pattern of funding	Rate of Assistance
			<p>(iii) One time assistance for a maximum amount ₹ 10.00 lakh as subsidy for setting up a new seed garden in 15 ha area by oil palm farmers association/co-operative etc. through State Government could be provided within the State AAP.</p> <p>(iv) The seed garden may be developed over an area of 15 ha each as a Revolving Fund Scheme with the assistance of ₹ 30.00 lakh, with a breakup of ₹ 10 lakh in the first year and ₹ 2 lakh each for 2nd, 3rd, 4th, 5th and 6th year. In 7th year, a block grant of ₹ 10 lakh be provided. From 8th year onwards the scheme is likely to become self supportive.</p>
5	Inputs for Intercropping in oil palm	75:25	Through the States' Department of Agriculture/ Horticulture for intercropping in oil palm fields @ 50% of the cost limited to ₹ 3000/ha for purchase of seeds/fertilizers/ INM/ IPM/ fertigation/tree guards and PP chemicals etc (75% funds for procurement of fertilizers/seeds and 25% for production/protection inputs for inter crop fields) within the AAP of the State during first to fourth year of plantation.
6	Construction of vermi-compost units at oil palm fields	75:25	Support to State Department of Agriculture/ Horticulture @50% of the cost limited to ₹ 15000/unit of 15 meter length, 0.9 meter width and 0.24 meter depth at oil palm field/garden of the farmers. The dimension of vermi-compost production could vary as per the recommendation of ICAR/SAUs within the cost approved under any scheme of the Government of India/State.
7	Machinery & tools	75:25	Assistance upto 50% of the cost and upto the amount for equipments/tools as provided under to State Department of Agriculture/Horticulture: <ul style="list-style-type: none"> (i) Manually handled/high reach oil palm cutter - ₹ 1500/- per unit, (ii) Oil Palm protective wire mesh - 15000/- per unit, (iii) Motorized Chisel- ₹ 10000/- per unit (iv) Aluminium Portable ladder- ₹ 3000/- per unit (v) Chaff cutter for chaffing of oil palm leaves (oil palm farmers only) - ₹ 7000/- per unit.

S. No.	Components	Pattern of funding	Rate of Assistance
			<p>(vi) Small tractor upto 20 HP along with trolley: 25% of the cost of procurement subject to a ceiling of ₹ 0.75 lakh. Additional 10% assistance to SC/ST/Small/Marginal Farmers/ Women, Groups >5 members FPOs and NE States to a ceiling of ₹ 1.00 lakh per unit.</p> <p>(vii) Any other Machinery recommended by ICAR/ SAUs which is useful for oil palm growers could be included under local initiatives/ contingency under AAP.</p> <p>(viii) import of machinery viz; mechanical sprayer for young oil palm fields, mechanical oil palm harvesting machine, compact FFBs transporter/ sprayers etc with specific approval of standing committee of NMOOP.</p>
8	Special component for NE/Hilly States/ LW Areas/regions including support for oil palm processing units	75:25	<p>In order to provide a complete package for oil palm development, support to States' Department of Agriculture/Horticulture as under:</p> <p>(i) 50% of the actual cost estimated by PWD/ CPWD limited to 20% of total outlay of the state under AAP for MM-II on Oil Palm for roads from oil palm field to nearest FFB collection/processing centre.</p> <p>(ii) 50 % of the cost limited to ₹ 250.00 lakh for a unit of 5.00 MT/Hr for newly planted oil palm areas to the State Government agencies/ Cooperative sector/ Government Recognized Farmers Associations through State Governments on the proposals approved by the State Government to protect oil palm plantation and back-ended subsidy through banks for plant and equipments only as per approval of State Government for setting up of a mill where sufficient area to run a mill of 5.00 MT/hr capacity is under production of FFBs at the sole discretion of the Government of India depending on the resources availability in the Mission and the policy adopted time to time.</p> <p>(iii) Subsidy will also be given for addition of capacity of crushing of FFBs at least by 1MT/ Hr @25% of the cost limited to ₹ 25.00 lakh to existing units of State Government/ Government agencies based on the discretion as elaborated in para above.</p>

Annexure-II (c)

Pattern of Assistance for Transfer of Technology Inputs component under

Mini Mission-II (Oil Palm) of NMOOP during XII Plan

S. No.	Components	Pattern of funding	Rate of Assistance
1	Farmers' Training	75:25	₹ 24000/- per training for a batch of 30 farmers for 2 days (@ 400/- per participant per day).
2	Training of Extension Workers/ Officers/ input dealers	75:25	Input dealers included. ₹ 36000/- per training for a batch of 20 officers for 2 days. (@ 900/- per participant per day).
3	Demonstrations	75:25	Support to the State Department of Agriculture/ Horticulture as under: (i) 5 demonstration of 1 ha each in a block of new plantation of 500 ha or above being taken up on farmers' field. (ii) Assistance for demonstration in a new oil palm Block/district will be provided through State Department of Agriculture/Horticulture @ 85% of the cost of planting material limited to ₹ 10,000/- per ha for planting material and maximum @50% of the maintenance cost during gestation period of demonstration field for 3 years with a ceiling of ₹ 14,000 per ha. The illustrative breakup of gestation period assistance for 3 years of new plantations under demonstration starting from the 2nd year of new plantation is given @ ₹ 3500/ha, ₹ 4500/ha, ₹ 6000/ha in 2nd,3rd & 4th Years respectively. Balance cost, if any, on planting material, cultivation and other expenditures may be met either by the farmer or State government.
4	Research & Development (R&D) Schemes	100%	Need based support will be given for ongoing schemes by ICAR for maintenance of existing seed gardens & ongoing schemes viz; leaf analysis lab, training of staff/officers and testing of genotype etc as approved in X and XI plan period on project basis by the Department of Agriculture & Cooperation.

S. No.	Components	Pattern of funding	Rate of Assistance
5	Training infra-structure support to ICAR	100%	Need based support to the ICAR Institutes on project basis to strengthen training infrastructure for oil palm growers/farmers.
6	Local Initiatives, Contingency including monitoring & evaluation and Operational costs including consultant services. Exposure visits of farmers/ Seminar/ Conference etc	75 25	<p>The respective implementing States will be allowed to utilize 1.0 % of the total allocation under MM-II on Oil Palm for contingency including monitoring & evaluation and Operational Costs including consultant services in the Annual Action Plans of Mini Mission-II on Oil Palm. The following activities will be covered under this intervention -</p> <ol style="list-style-type: none"> 1. Publicity under Mini Mission-II on Oil Palm and Exposure visits (inter and intra state) of farmers and/or officers/Seminar/Conference/Workshop/Mela etc 2. Contingency: States will be allowed to engage state level consultants/ supporting staff as Technical Support Group (TSG) on contractual basis. Hiring of vehicles/ Monitoring of scheme/attending workshop/ meetings. Purchase of vehicles will not be allowed. No permanent post will be created under the Mission. 3. Organizing workshop/Seminar/Conference etc by States on oil palm & its technologies. Support for use of ICT. 4. Concurrent/Mid Term and end of the Plan period evaluation of Mini-Mission Components by an independent agency. 5. Any other component on increasing production/productivity of palm oil in state as state specific local initiative which may be crucial for effective implementation & adoption of best practices in increasing production and productivity of palm oil under the programme and not covered as an intervention of the MM-II with the approval of GOI in their AAPs. The State may include such interventions with subsidy not more than 50% of the cost of the item/ services.

Annexure-III (a)

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 border="1"> <thead> <tr> <th>Sl. No.</th> <th>Name of Plant</th> <th>No. of plants per ha.</th> <th>Plantation cost per ha (₹)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Simarouba</td> <td>500</td> <td>24,000</td> </tr> <tr> <td>2</td> <td>Neem</td> <td>400</td> <td>17,000</td> </tr> <tr> <td>3</td> <td>Jojoba*</td> <td>2500</td> <td>35,000</td> </tr> <tr> <td>4</td> <td>Karanja</td> <td>500</td> <td>20,000</td> </tr> <tr> <td>5</td> <td>Mahua</td> <td>200</td> <td>15,000</td> </tr> <tr> <td>6</td> <td>Wild apricot</td> <td>400</td> <td>16,000</td> </tr> <tr> <td>7</td> <td>Jatropha</td> <td>2500</td> <td>41,000</td> </tr> <tr> <td>8</td> <td>Cheura</td> <td>250</td> <td>14,000</td> </tr> <tr> <td>9</td> <td>Kokum</td> <td>250</td> <td>15,000</td> </tr> <tr> <td>10</td> <td>Tung</td> <td>500</td> <td>21,000</td> </tr> <tr> <td>11</td> <td>Olive*</td> <td>200</td> <td>48,000</td> </tr> </tbody> </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 (₹)	1	Simarouba	500	24,000	2	Neem	400	17,000	3	Jojoba*	2500	35,000	4	Karanja	500	20,000	5	Mahua	200	15,000	6	Wild apricot	400	16,000	7	Jatropha	2500	41,000	8	Cheura	250	14,000	9	Kokum	250	15,000	10	Tung	500	21,000	11	Olive*	200	48,000
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2	Maintenance of TBOs plantation from 2nd year of plantation till gestation period.	75:25	<p>Support to nodal/central agency of MM-III on TBOs in AAPs for undertaking maintenance of TBOs Plantation of 11 Tree Borne Oilseeds from 2nd year onwards till gestation period under MM-III of TBOs of NMOOP with maximum cost of maintenance of plantation for different TBOs as follow:</p>																																																

SN	Components	Pattern of funding	Rate of Assistance			
			Sl. No.	Name of TBO plant	gestation period in years	Ceiling of maintenance cost per year till gestation period (₹)
			1	Simarouba	5	2000
			2	Neem	5	2000
			3	Jojoba*	4	3200
			4	Karanja	4	2000
			5	Mahua	8	2000
			6	Wild apricot	4	2000
			7	Jatropha	2	3200
			8	Cheura	6	2000
			9	Kokum	6	2000
			10	Tung	4	2000
			11	Olive	4	3200

Annexure-III (b)

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

SN	Components	Pattern of funding	Rate of Assistance
1	Incentives for undertaking Intercrops with oilseeds, pulses and other crops during gestation period.	75:25	Support to nodal/central agency of MM-III on TBOs in AAPs for undertaking intercropping with oilseeds, pulses and other crops during gestation period @ ₹ 1000/ ha for critical inputs to various types of intercropping. Applicable to TBOs farms that have undertaken Plantation of Tree Borne Oilseeds under MM-III on TBOs.
2	Research and Development on TBOs	100%	Support will be provided for need based Research & Development projects on 100% funding from the Government of India to central R&D institutes like ICAR, ICFRE, CSIR and IITs for undertaking Research for development of high oil content and higher yield varieties of TBOs, development of

SN	Components	Pattern of funding	Rate of Assistance
			package of practice for intercropping, plantation techniques through various methods through seeds, cuttings, tissue culture, designing and development of pre-processing and processing tools, value addition and Post Harvest Techniques of various Tree Borne Oilseeds (TBOs) and analysis of various other parameters of TBOs for its alternate use. The R&D programmes will be target based & short term (3-4 years during the Twelfth Plan period only). No regular staff will be provided under the R&D component.
3	Distribution of pre-processing, processing and oil extraction equipments	Back ended credit linked subsidy (30% subsidy, 50% loan, 20% own share)	<p>Support to nodal/central agency of MM-III on TBOs in AAPs for installation of TBOs seeds processing/ Oil Extraction units where sufficient TBOs seeds are produced and collected for extraction of oil and above 60% capacity of unit can be utilized. The subsidy is for providing financial assistance for Pre-processing & Processing devices under MM-III on TBOs for 12 TBOs namely Simarouba, Neem, Jojoba, Karanja, Mahua, Wild apricot, Jatropha, Cheura, Kokum, Tung, Olive and Rubber seed. Back ended credit linked subsidy (30% subsidy, 50% loan, 20% own share). Quantum of assistance - Subsidy restricted to 30% of project cost with ceiling as under:-</p> <p>(i) Government / Semi Govt. Organizations: Four projects ₹ 25.00 lakhs (ii) FPOs/SHGs/FIGs/Cooperatives/Individuals - One project ₹ 6.50 lakhs</p>

SN	Components	Pattern of funding	Rate of Assistance																																																																												
			<p>Component wise details of assistance are as follows:-</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Particulars & Capacity</th> <th>Estimated cost in ₹</th> <th>Back ended Credit Linked Subsidy @ 30% on actual cost restricted to cost ceiling in ₹</th> </tr> </thead> <tbody> <tr> <td colspan="4">For Neem, Jatropha, Karanja and Tung developed by IIT, N Delhi</td> </tr> <tr> <td>1</td> <td>Neem Depulper (Manual) - 20 Kg/hr</td> <td>40,000</td> <td>12,000</td> </tr> <tr> <td>2</td> <td>Karanja Decorticator - 50 Kg/hr</td> <td>1,00,000</td> <td>30,000</td> </tr> <tr> <td>3</td> <td>Tung Decorticator - 40 Kg/hr</td> <td>1,00,000</td> <td>30,000</td> </tr> <tr> <td>4</td> <td>Jatropha Decorticator (Manual) - 40 Kg/hr</td> <td>50,000</td> <td>15,000</td> </tr> <tr> <td>5</td> <td>Neem Decorticator (Mechanical with 2 H.P. Motor) - 100 Kg/hr</td> <td>80,000</td> <td>24,000</td> </tr> <tr> <td colspan="4">For Jojoba, Mahua & Wild Apricot developed by Oil Technological Research Institute, JNTU, Ananthpur (A.P.)</td> </tr> <tr> <td>6</td> <td>Jojoba Seed Dehuller - 60 Kg/hr</td> <td>50,000</td> <td>15,000</td> </tr> <tr> <td>7</td> <td>Mahua Seed Decorticator - 50 Kg/hr.</td> <td>50,000</td> <td>15,000</td> </tr> <tr> <td>8</td> <td>Wild Apricot Decorticator - 45 Kg/hr</td> <td>50,000</td> <td>15,000</td> </tr> <tr> <td colspan="4">For other TBOs (Simarouba, Cheura, kokum, Olive and Rubber)</td> </tr> <tr> <td>9</td> <td>Depulper - 20 Kg/hr</td> <td>40,000</td> <td>12,000</td> </tr> <tr> <td>10</td> <td>Decorticator - 40 Kg/hr</td> <td>50,000</td> <td>15,000</td> </tr> <tr> <td>11</td> <td>Dehuller - 50 Kg/hr</td> <td>50,000</td> <td>15,000</td> </tr> <tr> <td>12</td> <td>Drier - 40 Kg/hr</td> <td>50,000</td> <td>15,000</td> </tr> <tr> <td>13</td> <td>Cleaner/grader - 100 Kg/hr</td> <td>30,000</td> <td>9,000</td> </tr> <tr> <td colspan="4">Installation of oil Expeller for above TBOs</td> </tr> <tr> <td>14</td> <td>Oil Expeller 1 Tonne per day (TPD)</td> <td>2,00,000</td> <td>60,000</td> </tr> </tbody> </table>	Sl. No.	Particulars & Capacity	Estimated cost in ₹	Back ended Credit Linked Subsidy @ 30% on actual cost restricted to cost ceiling in ₹	For Neem, Jatropha, Karanja and Tung developed by IIT, N Delhi				1	Neem Depulper (Manual) - 20 Kg/hr	40,000	12,000	2	Karanja Decorticator - 50 Kg/hr	1,00,000	30,000	3	Tung Decorticator - 40 Kg/hr	1,00,000	30,000	4	Jatropha Decorticator (Manual) - 40 Kg/hr	50,000	15,000	5	Neem Decorticator (Mechanical with 2 H.P. Motor) - 100 Kg/hr	80,000	24,000	For Jojoba, Mahua & Wild Apricot developed by Oil Technological Research Institute, JNTU, Ananthpur (A.P.)				6	Jojoba Seed Dehuller - 60 Kg/hr	50,000	15,000	7	Mahua Seed Decorticator - 50 Kg/hr.	50,000	15,000	8	Wild Apricot Decorticator - 45 Kg/hr	50,000	15,000	For other TBOs (Simarouba, Cheura, kokum, Olive and Rubber)				9	Depulper - 20 Kg/hr	40,000	12,000	10	Decorticator - 40 Kg/hr	50,000	15,000	11	Dehuller - 50 Kg/hr	50,000	15,000	12	Drier - 40 Kg/hr	50,000	15,000	13	Cleaner/grader - 100 Kg/hr	30,000	9,000	Installation of oil Expeller for above TBOs				14	Oil Expeller 1 Tonne per day (TPD)	2,00,000	60,000
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4	Support to TRIFED/NCDC	100%	<p>A lump sum grant upto ₹ 50 lakh per annum to Tribal Cooperative Marketing Development Federation of India Limited (TRIFED)/National Cooperative Development Corporation (NCDC) for promotion of seed collections of TBOs and facilitating marketing of collected TBO seeds on project basis preferably in tribal areas (forest/non forest) to harness the potential of TBOs, promotion of seed collection and marketing of TBOs through TRIFED/NCDC. No support for manpower, machinery, infrastructure development will be provided under the component.</p>																																																																												

Annexure-III (c)

Pattern of Assistance for Transfer of Technology component under Mini Mission - III (TBOs) under NMOOP during XII Plan

SN	Components	Pattern of funding	Rate of Assistance																														
1	Farmers Training	75:25	₹ 24000/- per training for a batch of 30 farmers for 2 days (@ 400/- per participant per day). The farmers should have undertaken Plantation of Tree Borne Oilseeds.																														
2	Officers/ Extension workers/input dealer training	75:25	Support to nodal/central agency of MM-III on TBOs in AAPs @ ₹36000/- per training for a batch of 20 Officers/ Extension workers/input dealer for 2 days.																														
3	Local Initiatives, Contingency including monitoring & evaluation and Operational costs. Exposure visits of farmers/ Seminar/ Conference/Mela etc	75:25	<p>1. Support to NOVOD Board : The contingency expenditure under MM-III will also be utilized by the Government of India for meeting the actual expenditure incurred on NOVOD Board under contingency expenditure for administrative, establishment, engagement of consultants/services etc as approved the Chairman of Standing Committee within the outlay of the MM-III/Mission. 100% Central Govt. Grants to NOVOD Board as per the provisions of section 12 (1) (b) of NOVOD Board Act. 1983, to meet the expenses as detailed under section 12 (2) of NOVOD Board Act. 1983.</p> <p>Operational cost/contingency of NOVOD Board - 100% GOI support through Government Grants (₹ in crores)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Head</th> <th>2014-15</th> <th>2015-16</th> <th>2016-17</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Employees salary & allowances (32 on roll out of 46)</td> <td>2.45</td> <td>2.66</td> <td>2.80</td> <td>7.91</td> </tr> <tr> <td>Establishment & administrative expenses</td> <td>0.65</td> <td>0.90</td> <td>1.05</td> <td>2.60</td> </tr> <tr> <td>Monitoring & Evaluation</td> <td>0.05</td> <td>0.20</td> <td>0.25</td> <td>0.50</td> </tr> <tr> <td>One Consultant+2 Senior Research Fellow (SRF)</td> <td>0.11</td> <td>0.11</td> <td>0.11</td> <td>0.33</td> </tr> <tr> <td>Total</td> <td>3.26</td> <td>3.87</td> <td>4.21</td> <td>11.34</td> </tr> </tbody> </table>	Head	2014-15	2015-16	2016-17	Total	Employees salary & allowances (32 on roll out of 46)	2.45	2.66	2.80	7.91	Establishment & administrative expenses	0.65	0.90	1.05	2.60	Monitoring & Evaluation	0.05	0.20	0.25	0.50	One Consultant+2 Senior Research Fellow (SRF)	0.11	0.11	0.11	0.33	Total	3.26	3.87	4.21	11.34
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SN	Components	Pattern of funding	Rate of Assistance
			<p>2. Support to nodal/central agency of MM-III on TBOs in AAPs for area expansion programs will be provided under MM-III on TBOs of NMOOP @ 1% of total Annual Action Plan of the nodal/central agency. Contingencies will be given for monitoring and evaluation, TA, POL, publications, publicity, seminar/Workshop/exhibitions/exposure visits/conference etc. The States will be allowed to use expenditure on publicity, meeting/seminars/conference etc, hiring of services of experts, ICT tools/equipments, hiring of vehicles, telephone expenditure, stationery etc. No permanent post will be created under MM-III and No support for manpower will be provided under this component. Purchase of vehicles and infrastructure including civil/electrical, building etc will not be allowed.</p>

Note: Maximum allocation under machineries will be within the limit of 25% of total outlay of each Mini Mission.

Annexure-IV

Pattern of assistance for Activities/Components at the National Level

S. No.	Activities/Components	Rate of Assistance	Tentative allocation for Twelfth Plan period
1	Technical Support Group (TSG) at National Level	By utilizing outsourced services, a Technical Support Group at National Level (DAC/DOD) will work under the leadership of Mission Director consisting of technical support in form of 4 consultants (2 for major oilseeds viz., Groundnut, Soybean, Rapeseed & Mustard, Sunflower; 1 for production/protection technology and 1 for Oil Palm) and 05 Technical Assistant. One Jr. Programmer, Four typists and two Data Entry Operators will also be provided in this component.	NMOOP will have various components related to administrative expenditure, therefore the Department of Agriculture & Co-operation (DAC) will retain upto 1% of the total outlay under NMOOP to organize
2	Awards to States annually at National Level	Three awards upto a total of ₹ 1.00 Crore annually to the States implementing NMOOP during Twelfth Plan period.	pan India activities as detailed or for such administrative
3	Awards to Farmers annually at National Level	Eleven awards of ₹ 1.00 Lakh each year annually upto a total of ₹ 11 lakhs in the States implementing NMOOP during Twelfth Plan period.	contingencies that may arise at various times. The Standing Committee of NMOOP will
4	In-country & abroad training/exposure visits of officials of DAC/DOD etc.	Actual cost of expenses for officers of DAC for in-country & abroad training/meetings/visits/conference etc. The Chairman of the Standing Committee of NMOOP may also consider inclusion of officials of States Governments/ICAR/ SAUs/ KVKs Officials based on the requirements of such Indian delegation. The expenditure on foreign visits/training/meetings will be kept within the 1% administrative costs retained by DAC at its level.	be empowered to increase or decrease the administrative expenditure within the mission funds depending upon actual need.
5	Contingency including development of training Infrastructure & strengthening of DAC/DOD	In order to strengthen and/or to create new training infrastructure at nodal organizations at national level, NMOOP will provide need based support to the Department of Agriculture & Co-operation (DAC), Directorate of Oilseeds	

S. No.	Activities/ Components	Rate of Assistance	Tentative allocation for Twelfth Plan period
		Development (DOD), Hyderabad, National Oilseeds and Vegetable Oils Development (NOVOD) Board and Mission Cell of NMOOP. Publicity/ Seminars/ Workshops/ Field Visits/ Meetings/Conference/Melas etc in the country will be funded during Twelfth Plan period	
6	Monitoring & Evaluation of NMOOP	NMOOP will have a mechanism of monitoring and evaluation with the involvement of all the implementing agencies and the line departments. This component includes cost of web-based software development by NIC for the three mini-missions. This software will be comprehensive having modules for data capture from districts & reporting with different authentication levels. The concurrent, Midterm and plan-end impact evaluation of the Mission will be undertaken at National level through AFC or some other agency appointed by GOI.	

Abbreviations

A&C	Agriculture & Cooperation
AAP	Annual Action Plan
AESA	Agro-Eco-System Analysis
ATMA	Agricultural Technological Management Agency
BE	Budget Estimate
CAG	Comptroller & Auditor General of India
CDDs	Crop Development Directorates
CFTRI	Central Food Technological Research Institute
CMD	Chairman-cum- Managing Director
CPWD	Central Public Works Department
CSIR	Council of Scientific and Industrial Research
DAC	Department of Agriculture & Cooperation
DARE	Department of Agriculture Research & Education
DG (ICAR)	Director General (Indian Council of Agricultural Research)
DOD	Directorate of Oil seeds Development
EC	Executive Committee
FFBs	Fresh Fruit Bunches
FFS	Farmer's Field School
FIGs	Farmer's Interest Groups
FLDs	Front Line Demonstrations
GOI	Government of India
GPS	Global Positioning System
HP	Horse Power
HDPE	High Density Poly Ethylene
HIL	Hindustan Insecticides Limited
Hr	Hour

ICFRE	Indian Council of Forestry Research and Education
ICRISAT	International Crop Research Institute for Semi-Arid Tropics
ICT	Information & Communications Technology
IFD	Internal Finance Division
IFFCO	Indian Farmers Fertilizers Co-operative Ltd.
IFFDC	Indian Farmers Fertilizers Development Corporation
IITs	Indian Institutes of Technology
INM	Integrated Nutrient Management
IPM	Integrated Pest Management
ISOPOM	Integrated Scheme of Oil seeds, Pulses, Oil Palm and Maize
JNTU	Jawaharlal Nehru Technological University
KRIBHCO	Krishak Bharatiya Co-operative Ltd.
KVIC	Khadi and Village Industries Commission
KVKs	Krishi Vigyan Kendras
MFP	Minor Forest Products
MIS	Management Information System
MM	Mini Mission
MMA	Macro Management in Agriculture
MMC	Mission Monitoring Committee
MT	Metric Tonnes
N,P&K	Nitrogen, Phosphorous & Potassium
NAFED	National Agricultural Cooperative Marketing Federation of India Limited
NALMOTs	National Level Monitoring Teams
NARS	National Agricultural Research System
NCCF	National Consumer Cooperative Fedration of india Ltd.
NCDC	National Cooperative Development Corporation
NCIPM	National Centre for Integrated Pest Management
NE	North-Eastern
NFSM	National Food Security Mission
NGOs	Non-Government Organization
NIC	National Informatics Centre
NMSA	National Mission for Sustainable Agriculture
NOVOD	The National Oil seeds and Vegetable Oils Development Board
NPV	Nuclear Polyhedrosis Virus
NRM	National Resource Management
NSC	National Seeds Corporation
PMB	Potash Mobilising Bacteria

PMT	Project Management Team
PP	Plant Protection
PRI	Panchayat Raj Institution
PSB	Phosphate Solubilising Bacteria
PSUs	Public Sector Undertakings
PVC	Poly Vinyl Chloride
PWD	Public Works Department
R&D	Research and Development
RE	Revised Estimate
SALMOT	State Level Monitoring Team
SAP	State Action Plan
SAUs	State Agricultural Universities
SC	Standing Committee
SC	Schedule Caste
SFAC	Small Farmer's Agribusiness Consortium
SFCI	State Farms Corporation of India
SHGs	Self-Help Groups
SMAM	Sub-Mission on Agricultural Mechanization
SMS	Subject Matter Specialist
SRF	Senior Research Fellow
SRR	Seed Replacement Ratio
SSCs	State Seed Corporations
ST	Schedule Tribe
TA	Travelling Allowance
TBOs	Tree Borne Oil seeds
TERI	Tata Energy Research Institute
TMOP	Technology Mission on Oilseeds & Pulses
TPD	Tonnes per day
TRIFED	Tribal Cooperative Marketing Development Federation of India Limited
TSGs	Technical Support Group
VSTSP	Variety Specific Targeted Seed Production
WDG	Water Dispersible Granules
ZSB	Zinc Solubilising Bacteria



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Department of Agriculture & Cooperation
Ministry of Agriculture
Government of India
Krishi Bhawan, New Delhi