

SCHEMES IMPLEMENTED IN KORAPUT DISTRICT UNDER CENTRALLY SPONSORED SCHEME

- I. NATIONAL SOIL HEALTH CARD SCHEME:** (<http://soilhealth.dac.gov.in/>): Soil Health Management (SHM) Under National Mission for Sustainable Agriculture (NMSA)(w.e.f,1st April 2014) aims at promoting Integrated Nutrient Management (INM) through judicious use of chemical fertilisers including secondary and micro nutrients in conjunction with organic manures and bio-fertilisers for improving soil health and its productivity; strengthening of soil and fertiliser testing facilities to provide soil test based recommendations to farmers for improving soil fertility; ensuring quality control requirements of fertilisers, bio-fertilisers and organic fertilisers under Fertiliser Control Order, 1985; upgradation of skill and knowledge of soil testing laboratory staff, extension staff and farmers through training and demonstrations; promoting organic farming practices etc. "Soil Health Management (SHM) is one of the most important interventions under "National Mission for Sustainable Agriculture" (NMSA) with the objectives
- To make agriculture more productive, sustainable and climate resilient;
 - To conserve natural resources;
 - To adopt comprehensive soil health management practices;
 - To optimize utilization of water resources; etc.
- II. RASTRIYA KRUSHI VIKASH YOJANA:** <http://rkvy.nic.in/>, In order to achieve 4 percent annual growth in the agricultural sector during the 11th plan, Rashtriya Krishi Vikas Yojanan was initiated in 2007 as an umbrella scheme for ensuring holistic development of agriculture and allied sectors by allowing states to choose their own agriculture and allied sector development activities as per the district/state agriculture plan.

Sub scheme:

- 1. BRINGING GREEN REVOLUTION TO EASTERN INDIA (BGREI):** Objective of the scheme is to
- To increase the production and productivity of rice by adopting latest crop production technologies @ 5.00 Qntls per hact/.
 - To promote cultivation in rice fallow area to increase cropping intensity and income of the farmers
 - To create water harvesting structure and efficient utilization of water potential
 - To promote post-harvest technology and marketing support.

APPROVED RATE OF ASSISTANCE UNDER BGREI FROM YEAR 2016-17			
sl.no	Intervention	unit	Approved rate of assistance/ unit
I	CLUSTER DEMONSTRATION		
	DSR	Ha	7,500
	LINE TP	Ha	7,500
	SRI	Ha	7,500
	STRESS TOLERANT	Ha	7,500
II	PRODUCTION OF SEEDS		
	(a)Hybrid Rice	Qtls	5,000
	(b) Certified Seeds	Qtls	1,000
III	DISTRIBUTION OF SEEDS		
	(a)Hybrid Rice	Qtls	5,000
	(b) Certified Seeds	Qtls	1,000
IV	NUTRIENT MANAGEMENT AND SOIL AMELIORANTS		
	(a) Micro-nutrient	Ha	500
	(b) Lime	Ha	1,000
	(c) Bio fertilisers	Ha	1,000
	(d) Gypsum	Ha	750
V	INTEGRATED PEST MANAGEMENT		
	(a) PP chemical & Bio Pesticide	Ha	500
	(b) Weedicide	Ha	500
VI	ASSET BUILDING		

	(a) Dug well	Nos	30,000
	(b) Bore well	Nos	30,000
	(c) Shallow tube well	Nos	12,000
	(d) Drum Seeder	Nos	1,500
	(e) Seed-cum- fert Drill	Nos	15,000
	(f) Rotavator	Nos	35,000
	(g) Self Propelled Paddy Transplanter	Nos	75,000
	(h) Pump Set	Nos	10,000
	(i) Cono-weeder	Nos	600
	(j) Manual Sprayer	Nos	600
	(k) Power Knap sack Sprayer	Nos	3,000
	(L) Power Weeder	Nos	15,000
	(m) Paddy thresher: axial	Nos	40,000
	(n) Multi Crop thresher	Nos	40,000
	(o) Laser land leveler (for a group of 10 farmers)	Nos	1,50,000
VII	SITE SPECIFIC ACTIVITIES		
	(I) CLUSTER DEEP BOPRE WELL	Nos	15,52,000
	(II) CLUSTER SHALLOW TUBVE WELL	Nos	19,47,500
	(iii) COMMUNITY SURFACE LIFT IRRIGATION	Nos	15,00,000
VIII	POST HARVEST & MARKETING SUPPORT		
	(I) CDP-CUM-THRESHING FLOOR		7,32,000
IX	CROPPING SYATEM BASED TRAINING (4 SESSION)		14,000

2. **E PEST SURVEILLANCE UNDER RKVY:** It is a pest monitoring system in the state which will check the spread of disease, pest and the crop loss also with following objectives.
- To do surveillance in pest prone as well as in large demonstration areas including the other field crops.
 - To monitor the pest by using traps and lures
 - To counter the urgent pest attack by providing critical inputs.
 - To train the base level workers
 - To buildup season specific pest map on endemic areas.

<http://agrisnetodisha.ori.nic.in/EPEST/Pest-Disease>

III. NFSM: (NATIONAL FOOD SECURITY MISSION) : <http://nfsm.gov.in/>,

In order to increase the production of rice by 10 million tons, wheat by 8 million tons and pulses by 2 million tons by the end of the Eleventh Plan (2011-12). The Centrally Sponsored Scheme, 'National Food Security Mission' (NFSM), was launched in October 2007. The Mission is being continued during 12th Five Year Plan with new targets of additional production of food grains of 25 million tons of food grains comprising of 10 million tons rice, 8 million tons of wheat, 4 million tons of pulses and 3 million tons of coarse cereals by the end of 12th Five Year Plan. The National Food Security Mission (NFSM) during the 12th Five Year Plan will have five components (i) NFSM- Rice; (ii) NFSM-Wheat; (iii) NFSM-Pulses, (iv) NFSM-Coarse cereals and (v) NFSM-Commercial Crops out of which following three component is being implemented in the district.

1. **National Food Security Mission NFSM (Pulse):** is implementing in the Koraput district since 2011 with an objectives to
- Increase production of pulses through area expansion and productivity enhancement in a sustainable manner in the districts.
 - Restore soil fertility and productivity at the individual farm level and
 - Enhance farm level economy (i.e. farm profits) to restore confidence amongst the farmers.

Approved Rate of Assistance under NFSM-Pulse			
Sl. No.	Interventions	Unit	Approved Rate of Assistance in Rs.
1	*Demonstrations on Improved Technologies:		
	(A) Cluster Demonstrations (in village approach)	Ha	5,000
	i. Mung- Rabi	Ha	6,500
	ii. Urad-Kharif	Ha	6,500
	B. CSBD	Ha	11,500
	C. Demonstration on Intercropping	Ha	6,500
	D. TRFA	Ha	6,500
2	ASSISTANCE FOR SEEDS		
	a). Distribution of Certified Seeds: HYVs seeds (Arhar/ Mung/ Biri)	Qtl	2,500
	b). Production of Seed (Arhar/ Mung/ Biri)		2,500
3	Integrated Nutrient management (INM)		
	a) Micronutrient	Ha	500
	b) Gypsum/80% WG Sulphur	Ha	750
	c) Bio-Fertilizer	Ha	300
4	Integrated Pest Management (IPM)		
	a) Distribution of PPChemicals	Ha	500
	b) Weedicides	Ha	500
5	Resource Conservation Technologies/Tools:		
	a) Manual Sprayer	No	600
	b) Power Knapsack Sprayer	No	3,000
6	Efficient Water Application Tools:		
	(a) Sprinkler Sets	ha	10,000
	(b) Pipe for carrying water from source to the field		
	i). 50% cost limit to Rs. 50/mt for HDEP pipes	Mtr	50
	ii). 50% cost limit to Rs. 35/mt for HDEP pipes	Mtr	35
	iii). 50% cost limit to Rs. 20/mt for HDEP pipes	Mtr	20
7	Cropping System based trainings (Four Sessions i.e. One before Kharif and rabi seasons, one each during Kharif and Rabi Crops)	Nos	14,000
8	Local initiative		
	Dal Mill@ 50% cost	nos	1,00,000
9	Miscellaneous Expenses:		
	(a) Project Management Team & Other Miscellaneous Expenses at District level	No. of District	1,00,000

2. National Food Security Mission (coarse cereal): is implementing in the Koraput district since 2013 the Demonstrations will be on coarse cereal crops and coarse cereal based cropping- systems. The crops involved are maize, sorghum, barley, pearl millet, finger millet and small millets (Kudos, Barnyard, Foxtail, Proso and Little millet (Kutki). Intercropping systems such as maize + urd/ moong/ pigeon pea, sorghum + kharif pulses, pearl millet + urd/ moong/pigeon pea/moth bean/any other pulse should be selected depending on the area. Interventions being promoted under NFSM- Coarse Cereals are on improved technologies, i.e., crop-based cropping systems, cluster demonstration of quality seeds, enhancing farm efficiency through improve d agronomic practices like line sowing, soil amendments, integrated nutrient management, integrated pest management, water use efficiency tools, and support to National/International Institute etc. Proven crop production technologies developed by National Agricultural Research System are made available to the farmers through a series of planned interventions and financial incentives.

The approved rate of assistance is Rs. 5,000 per hact.

- 3. National Food Security Mission (commercial crops-Sugarcane):** The Government of India has approved under National Food Security Mission- Commercial Crops (NFSM-CC) w.e.f. 2014-15 and implemented in this district since 2016. Under this Scheme thrust has been given on transfer of technology through frontline demonstrations and training in order to extend benefits to the farmers.

The approved rate of assistance		
Sl.No	Component	Unit cost
1	Demonstration on intercropping and single bud chip technology with Sugarcane.	Rs.8000 per ha (Rs.7000 for inputs & Rs. 1000 for Contingency)

- IV. PARAMPRAGAT KRISHI VIKAS YOJANA (PKVY):** Organic agriculture is a production of agricultural products free from chemicals and pesticides residues by adopting ecofriendly low cost technologies "PARAMPRAGAT KRISHI VIKAS YOJANA" is an elaborated component of Soil Health Management (SHM) of National Mission of Sustainable Agriculture (NMSA). Under PKVY, Organic farming is promoted through adoption of organic village by cluster approach and PGS certification.

http://ncof.dacnet.nic.in/Operational_Guidelines/PKVYguidelines

THE SCHEME ENVISAGES:

- Promotion of commercial organic production through certified organic farming.
- The produce will be pesticide residue free and will contribute to improve the health of consumer.
- It will raise farmer's income and create potential market for traders.
- It will motivate the farmers for natural resource mobilization for input production.

PROGRAMME IMPLEMENTATION:

- Groups of farmers would be motivated to take up organic farming under Paramparagat Krishi Vikas Yojana (PKVY).
- Fifty or more farmers will form a cluster having 50 acre land to take up the organic farming under the scheme. In this way during three years 10,000 clusters will be formed covering 5.0 lakh acre areas under organic farming.
- There will be no liability on the farmers for expenditure on certification.
- Every farmer will be provided Rs. 20,000 per acre in three years for seed to harvesting of crops and to transport produce to the market.
- Organic farming will be promoted by using traditional resources and the organic products will be linked with the market.
- It will increase domestic production and certification of organic produce by involving farmers

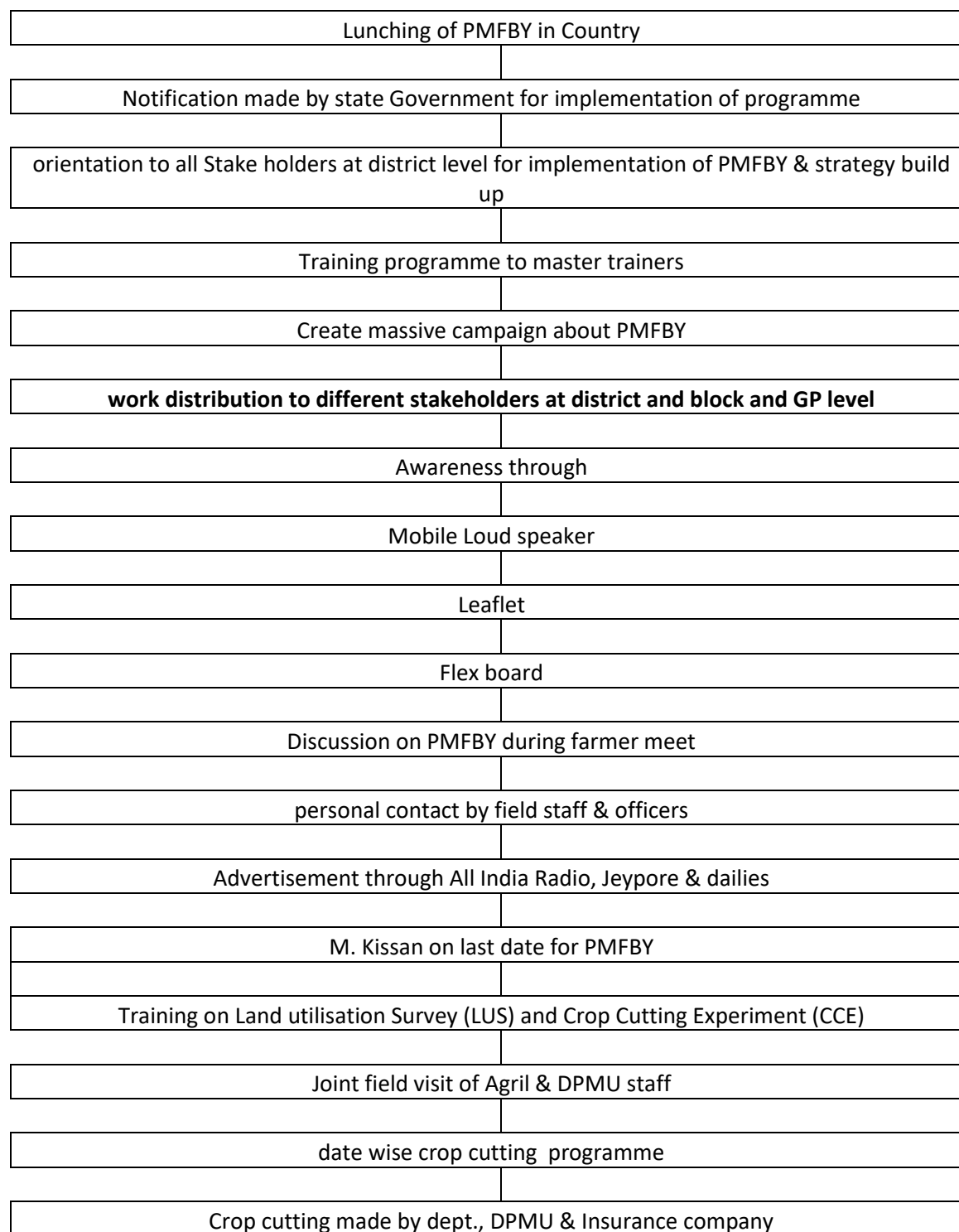
COMPONENTS AND PATTERN OF ASSISTANCE

COMPONENTS AND PATTERN OF ASSISTANCE UNDER PKVY	
1	ADOPTION OF PARTICIPATORY GUARANTEE SYSTEM (PGS) CERTIFICATION THROUGH CLUSTER APPROACH
A	MOBILIZATION OF FARMERS / LOCAL PEOPLE TO FORM CLUSTER IN 50 ACRE FOR PGS CERTIFICATION
i	Conducting of meetings and discussions of farmers in targeted areas to form organic farming cluster @ Rs. 200 / farmer
ii	Exposure visit to member of cluster to organic farming fields @ Rs. 200 / farmer
iii	Formation of cluster, farmer pledge to PGS and Identification of Lead Resourceful Person (LRP) from cluster
iv	Training of cluster members on organic farming (3 trainings @ Rs. 20000 per training)
B	PGS CERTIFICATION AND QUALITY CONTROL

i	Training on PGS Certification in 2 days @ Rs. 200 per LRP
ii	Training of Trainers (20) Lead Resource Persons@ Rs. 250 /day/ cluster for 3 days.
iii	Online Registration of farmer @ Rs.100 per member cluster x 50
iv	Soil sample collection and testing (21 samples/year/cluster) @ Rs. 190 per sample for three years
v	Process documentation of conversion into organic methods, inputs used, cropping pattern followed, organic manures and fertilizer used etc., for PGS certification @ Rs.100 per member x 50
vi	Inspection of fields of cluster member @ Rs. 400 /inspection x 3 (3 inspections will be done per cluster per year)
vii	Residue analysis of samples in NABL (8 samples per year per cluster) @ Rs. 10, 000/ sample
viii	Certification Charges
ix	Administrative expenses for certification
2	ADOPTION OF ORGANIC VILLAGE FOR MANURE MANAGEMENT AND BIOLOGICAL NITROGEN HARVESTING THROUGH CLUSTER APPROACH
A	ACTION PLAN FOR ORGANIC FARMING FOR ONE CLUSTER
i	Conversion of land to organic @ Rs.1000/acre x 50
ii	Introduction of cropping system; Organic seed procurement or raising organic nursery @ Rs.500/acre/year x 50 acres
iii	Traditional organic Input Production units like Panchagavya, Beejamruth and Jeevamruth etc. @ Rs.1500 /unit / acre x 50 acre
iv	Biological Nitrogen Harvest planting (Gliricidia, Sesbania, etc) @ Rs. 2000/acre x 50 acre
v	Botanical extracts production units (Neem cake, Neem oil) @ Rs.1000/unit/ acre x 50 acre
B	INTEGRATED MANURE MANAGEMENT
i	Liquid Biofertilizer consortia (Nitrogen fixing / Phosphate Solubilizing/ potassium mobilizing biofertilizer) @ Rs. 500/acre x 50
ii	Liquid Biopesticides (Trichoderma viridae, Pseudomonas fluorescens, Metarhizium , Beauveria bassiana, Pacelomyces, verticillium) @ Rs. 500 /acre x 50
iii	Neem Cake/ Neem Oil @ Rs.500/acre x 50
iv	Phosphate Rich Organic Manure / Zyme Granules @ Rs. 1000/acre x 50
v	Vermicompost (size 7'x3'x1') @ Rs.5000/ unit x 50
C	CUSTOM HIRING CENTRE (CHC) CHARGES
i	Agricultural implements (As per SMAM guidelines) - Power tiller, Cono weeder, Paddy thresher, Furrow opener, Sprayer, Rose can, Top Pan balance
ii	Walk-in tunnels for horticulture (As per guidelines of MIDH)
iii	Cattle shed / poultry / piggery for animal compost (As per Guidelines of Gokhul Scheme)
D	PACKING, LABELING AND BRANDING OF ORGANIC PRODUCTS OF CLUSTER
i	Packing material with PGS logo + Hologram printing @ Rs. 2500 / acre x 50
ii	Transportation of organic produce (Four wheeler, 1.5 tone load capacity) @Rs. 120000 max. assistance for 1 cluster
iii	Organic Fairs (maximum assistance will be given @ 36330 per cluster)

V. PRADHAN MANTRI FASAL BIMA YOJANA (PMFBY): Agriculture is very much susceptible to risks and uncertainty like Drought, Dry spells, Flood, Pests and Diseases, Natural Fire, Storm, Hailstorm, Cyclone, thunderstorm & unseasonal rains during harvesting. So in order to protect the crops of farmers from natural calamities and ensure their credit eligibility for the next season, farmers are coming to the main stream of Govt. policy for availing crop insurance.

FLOW CHART FOR IMPLEMENTAION OF PMFBY IN KORAPUT DISTRICT



VI. National Mission on Oilseeds and Oil Palm (NMOOP): <http://nmoop.gov.in/Guidelines.aspx>

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.

So in order to Achieve production of 35.51 million tonnes 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, a mini mission- I on Oilseeds is being implemented in the country out of which our district is a part of the mini mission.

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**.

1. SEED COMPONENTS:

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

2. PRODUCTION COMPONENTS:

- **Plant Protection Equipment ecofriendly light-trap (NCIPM Model):** For manual sprayers: Knapsack /foot operated sprayers, ecofriendly light trap (NCIPM), @ 40% of the cost of procurement subject to a ceiling of Rs. 600/- per equipment For Knapsack and Taiwan power sprayers (capacity below 16 liters) @ 50% of the cost of procurement subject to a ceiling of Rs. 3000/- per unit.
- **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 Rs 500/- ha.
- **Distribution of gypsum/pyrite/liming/dolomite/Single Super Phosphate etc. (SSP):** 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 Rs. 750/- per ha.
- **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 Rs 500/ha. Supply of Rhizobium culture/Phosphate Solubilising Bacteria (PSB)/ Zinc Solubilising Bacteria (ZSB) / Azotobactor/ 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.
- **Supply of Improved farm implements:**
 - Manually/Bullock drawn implements @ 40% of the cost limited to Rs. 8000/- per implement
 - Tractor driven, farm implements like Rotavator/ Seed Drill/Zero Till Seed Drill/ Multi-Crop Planter/Zero Till Multi-Crop Planter/ Ridge furrow Planter/ Raised bed planter/ Power weeder/ Groundnut digger and Multi crop threshers: @40% of the cost limited to Rs. 50000/- per unit
- **Distribution of Sprinkler Sets/Rain gun etc.**
- **Pipes for carrying water from source to the field:** @ 50% of the cost limited to Rs. 25/- per meter with maximum limit of unit length of 600 meters and cost of Rs. 15,000/- per farmer.

3. transfer of Technology:

- **Block Demonstrations:** assistance of Rs. 7,500 per hect 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, ecofriendly light traps (NCIPM model) etc, at the rate, as proposed in the table below:

- **Training of Farmers:** @ Rs. 24000/training will be provided for a batch of 30 farmers for 2 days and @ Rs. 400 per participants/day will be provided to organize the trainings to the farmers.

VII. National Mission on Agricultural Extension and Technology (NMAET): Extension Reforms Scheme is being implemented in the district since 2006. Prior to this it was tested as pilot from 1998-2003 with the objective of strengthening the extension machinery and utilizing it for synergizing the interventions under these schemes under the umbrella of Agriculture Technology Management Agency (ATMA). Agricultural Technology, including the adoption/ promotion of critical inputs, and improved agronomic practices were being disseminated under 17 different schemes of the Department of Agriculture & Cooperation during the 11th Plan.

National Mission on Agricultural Extension and Technology (NMAET) has been envisaged as the next step towards this objective through the amalgamation of these schemes. National Mission on Agricultural Extension and Technology (NMAET) consists of 4 Sub Missions:

- Sub-Mission on Agricultural Extension (SMAE)
- Sub-Mission on Seed and Planting Material (SMSP)
- Sub-Mission on Agricultural Mechanization (SMAM)
- Sub-Mission on Plant Protection and Plant Quarantine (SMPP)

The aim of the Mission is to restructure & strengthen agricultural extension to enable delivery of appropriate technology and improved agronomic practices to the farmers. This is envisaged to be achieved by a judicious mix of extensive physical outreach & interactive methods of information dissemination, use of ICT, popularisation of modern and appropriate technologies, capacity building and institution strengthening to promote mechanization availability of quality seeds, plant protection etc. and encourage the aggregation of farmers into Interest Groups (FIGs) to form Farmer Producer Organizations (FPOs).

Out of which the Sub-Mission on Agricultural Extension will focus on awareness creation and enhanced use of appropriate technologies in agriculture & allied sectors. Gains made in the past will be consolidated and strengthened through increased penetration of extension functionaries. Personnel trained under Agri-Clinics and Agri-Business Centers Scheme (ACABC) and Diploma in Agriculture Extension Services for Input Dealers (DAESI) will also provide extension services to the farmers. Use of interactive and innovative methods of information dissemination like Pico projectors, low cost films, handheld devices, mobile based services, Kissan Call Centers (KCCs) etc. will be used and convergence brought among extension efforts under different programmes and schemes at village level through the institution of ATMA (Agriculture Technology Management Agency) and Block Technology Teams (BTTs).

COMPONENT UNDER EXTENSION REFORM SCHEME (NMAET)		
SI No.	Cafeteria No	Component
1	B.2(a)	Training of Farmers Inter State
2	B.2(b)	Training of Farmers Within state
3	B.2(c)(i)	Training of Farmers Within district level RESIDENTIAL
4	B.2(c)(ii)	Training of Farmers Within District NON RESIDENTIAL
5	B.3(a)	Demonstration-Agriculture
6	B.3(b)	Demonstration-Allied Sector
7	B.4(a)	Inter State Exposure visit of farmers Maximum duration 7 days excluding travel time
8	B.4(b)	Exposure visit of farmers Within the State
9	B.4(c)	Within the District Exposure visit of farmers

10	B.5(a)	Capacity Building, Skill Development and Support Service
11	B.5(b)	Seed money or revolving fund to Farmer Groups
12	B.5(c)	Food Security Groups
13	B.8	District Level Exhibition, Kissan Mela, fruits and vegetable shows
14	B.9(a)	Information Dissemination through printed leaflets etc. and local advertisements
15	B.11(i)	Farmer Scientist interaction at district level 25 farmers for 2 days
16	B.11(iii)	Joint Visit by Scientists and Extension Workers
17	B.12	Organisation of field days Kissan Gostis to strengthen REF linkage
18	B.14(i)	Operational Expenses including TA DA for district level
19	B.14(ii)	Hiring of Vehicles and POL
20	B.14(iii)	Operational expenses exclusively for block level (including hiring of vehicles)
21	B.14(iv)	Operational Expenses for DFAC
22	B.14(v)	Operational Expenses for BFAC
23	B.15	Farm School
24	D.3	Farmer Friend(Krushak Sathi)
25	F.1	Display board
26	G.9	Accountant -cum- clerk / Computer Operator
27	G.10	Computer Operator
28	G.11	Block Technology Manager (BTM)
29	G.12	Assistant Technology Manager (ATM)

<http://extensionreforms.dacnet.nic.in>