

National Mission for Sustainable Agriculture (NMSA)

Cost Norms and Pattern of Assistance

Sl. No	Item	Practices	Cost Norms & Central share	State Share
A. Rainfed Area Development (RAD)				
A (I).	Sub Component: Integrated Farming System <i>(Indicative combinations illustrated; any other location specific suitable cropping / farming systems may be taken up in consultation with ICAR / SAUs/ Research Organizations.</i>			
1	Cropping system (CS)	Rice-wheat-sorghum +cowpea Rice-oil seeds Rice-vegetable-wheat/cowpea Rice-vegetables+mushroom Rice-wheat-pulses Rice-pulses-veg Rice-Wheat-Vegetables Rice-rice Rice-soybean/sunhemp+mushroom	50% of input cost limited to Rs. 10,000/- per ha. Maximum permissible assistance will be restricted to 2 ha per beneficiary. (Input cost includes land preparation, seeds, fertilizer/manure, plant nutrients, plant protection chemicals and herbicides etc.)	-
	a. Rice/ wheat based			
	b. Coarse cereal based	Maize-potato-onion Maize-wheat-summer mungbean Maize+ soybean-wheat Maize-pea-potato Maize-Potato-Wheat Maize+cowpea-onion Sorghum-pigeonpea Sorghum-chickpea/safflower Sorghum/maize-mustard Cowpea-fingermillet Fingermillet+ soybean-field bean		
	c. Oil-seed based	Soybean-wheat-cowpea Soybean- garlic Soybean+pigeonpea/sorghum-chickpea-rapeseed-safflower Castor-pigeonpea/sorghum/greengram/blackgram		

		Groundnut-castor Groundnut-pigeonpea Sunflower/safflower- coarse cereals		
	d. Fibre based	Cotton-Groundnut Cotton-wheat Cotton+sorghum/ pigeon pea/soybean/groundnut /greengram Rice-Jute		
	e. Pulse based	Green gram-finger millet, Blackgram- barley/rapeseed/ mustard/finger millet, Cowpea-finger millet		
2	Horticulture Based farming system (Plantation + Crops/Croppin g System)	Mango+ short duration pulses Mango+ berseem /Wheat/Gram /Soybean Ber+Cowpea/gram/ Cluster bean Citrus/Sapota/Pomegra nate/Amla/Litchi/Jackf ruit/Falsa+Field crops (Pulses/ Oilseeds) Sweet potato+Maize/Castor Tapioca+Maize/Castor Leucena+Turmeric/Gin ger Guava+Maize/Vegetabl es/Pigeon Pea Tamarind+Blackgram+ Vegetables	50% of input costs limited to Rs. 25000/- per ha. Maximum permissible assistance will be restricted to 2 ha per beneficiary. (Input cost includes land preparation, seeds, fertilizer/manure, plant nutrients, plant protection chemicals and herbicides etc.)	-
3	Tree/Silvi- Pastural/in- situ/ex-situ conservation of Non Timber Forest Produce (NTFP) (Plantation + grass/Crops/Cr opping System)	Neem+Sorghum Fodder Tree+ Grass Subabul/Casurina/ Agave+Grass Sunhemp-Niger Shisham/Leucaena/ gambiar+stylo/Cenchrus /mixture/NTFP species	50% of input costs limited to Rs. 15000/- per ha. Maximum permissible assistance will be restricted to 2 ha per beneficiary. (Input cost includes land preparation, seeds, fertilizer/manure, plant nutrients, plant protection chemicals and herbicides etc.)	-

4	Livestock based farming system	CB Cows+Mixedfarming + Fodder Buffalo+Mixed farming+ Fodder Cow/buffalo+dairy+ fodder Cow/buffalo+ small ruminants	<p>50% of input costs of cropping system including cost of animals with one year concentrated food limited to Rs. 40,000/- per ha.</p> <p>Maximum permissible assistance will be restricted to 2 ha per beneficiary.</p> <p>(Input cost of cropping system includes seeds, fertilizer/manure, plant nutrients, plant protection chemicals and herbicides etc.)</p>	-
		Small ruminant +Mixed farming+Pasture Poultry/duckery+Mixed Farming Poultry/duckery+Fisher y+Mixed Farming	<p>50% of input costs of cropping system and cost of animals/birds with one year concentrated food limited to Rs. 25,000/- per ha.</p> <p>Maximum permissible assistance will be restricted to 2 ha per beneficiary.</p> <p>(Input cost of cropping system includes seeds, fertilizer/manure, plant nutrients, plant protection chemicals and herbicides etc.)</p>	
5	Fishery based farming system	Rice-Fish farming system Fishery in pond+Fruits/ Vegetables on bunds+crops Fishery+duckery-poultry	<p>50% of input cost of cropping/vegetable system including cost of fish farming limited to Rs. 25,000/- per ha.</p> <p>Maximum permissible assistance will be restricted to 2 ha per beneficiary.</p> <p>(Input cost of cropping/vegetable system includes land preparation, seeds, fertilizer/manure, plant nutrients, plant protection chemicals and herbicides etc.)</p>	-

A(II)	Sub Component: Value addition and Farm development activities			
6	Apiculture (Bee Keeping)	One unit per farm under plantation /Crop/floriculture based farming system	50% of input cost limited to Rs. 1000/colony or hive and Rs. 20,000/- per beneficiary.	-
7	Silage making for increased availability of green fodder round the year	Construction of Silo Pit of 2100-2500 cubic feet with Brick and cement Mortar; either below ground or above ground) with provision of Chaff Cutter and Weighing Balance	100% assistance for silage making unit consisting of Silo Pit Chaff Cutters and Weighing Balance limited to Rs. 1.25 lakh per farm family	-
8	Green house& Low Tunnel poly house	High value crops, Vegetables, Flower, raising planting material to avoid water stress etc.	50% of input cost subject to a limit of: Rs. 500/- per sq.m for Tubular poly house limited to Rs. 10,00,000/- per beneficiary Rs. 270/- per sq.m for wooden structure & naturally ventilated greenhouse limited to Rs. 5,40,000 per beneficiary Rs. 15/- per sq.m for Low Tunnel poly house limited to Rs. 75,000 per beneficiary	-
9	Water Harvesting and Management	Water harvesting system for individuals: Lining of tanks/ponds	50% of cost (Construction cost - Rs. 125 for plain/Rs. 150 per cum for hilly areas) limited to Rs. 75000 for plain areas and Rs. 90000 for hilly areas including lining. For smaller size of the ponds/dugwells, cost admissible on pro rata basis. Cost for non-lined ponds/tanks will be 30% less. The families who are eligible for individual beneficiary oriented works under MGNREGS should preferably be given the labour component through MGNREGS and the material component through NMSA. 50% (cost of plastic/RCC	-

		constructed under MNREGA/ WSDP etc.	<p>lining limited to Rs. 25,000 per pond/ tank/well.</p> <p>Maintenance is to be ensured by the beneficiary.</p>	
		<p>Water harvesting system for communities:</p> <p>Construction of Community tanks/on farm ponds/check dam/ reservoirs with use of plastic/RCC lining on public land. If some individual agrees for construction on his land, the same will have to be transferred in the name of panchayat/ government first.</p>	<p>100% of cost limited to Rs. 20 lakh /unit in plain areas, Rs. 25 lakh/unit in hilly areas) for 10 ha of command area or any other smaller size on pro rata basis depending upon the command areas, owned & managed by a community/farmers group. Cost for non-lined ponds/tanks will be 30% less.</p> <p>Assistance under NMSA will be restricted to the cost of plastic/RCC lining for MNREGS beneficiaries.</p> <p>Minimum command area shall be at least 10 ha for such projects and operation and management of assets will be preferably through Water Users Association (WUA).</p>	
		Construction of Tube wells/ Bore wells (Shallow/Medium)	<p>50% of the total cost of installation limited to Rs. 25,000/- per unit only in areas which are not categorized under over-exploited, critical & semi-critical zones by Central Ground Water Board.</p>	-
		Restoration/Renovation of small tank	<p>50% of the cost of renovation limited to Rs. 15,000/- per unit</p>	
		Recharge of defunct bore well	<p>50% of the cost of recharging limited to Rs. 5000/- per unit</p>	
		Pipe/pre-cast distribution system	<p>50% of the cost of system limited to Rs. 10,000/- per ha.</p> <p>Maximum permissible assistance will be restricted to 4 ha per beneficiary/group.</p>	
		Water Lifting Devices(Electric, Diesel,	<p>50% of the cost of installation limited to Rs. 15,000/- per</p>	

		wind/Solar)	electric / diesel unit and Rs. 50,000/- per solar / wind unit.	
10	Last Mile connectivity	Electricity connectivity to Community Tube-well/Tube-wells/Water sources (without scope of gravitational flow) with command of more than 25 Ha. Group of farmers as a registered User Group can also avail assistance for private Tube-wells/ Dugwells with irrigation potential more than 25 Ha.	50% of the cost of installation & transmission system from the nearest source limited to Rs. 1.25 lakh per unit. The implementation agency should be the user group and to be responsible for its maintenance and security.	-
11	Resource Conservation	<p>In-situ moisture conservation: land leveling, field bunding, mulching, broad bed and furrow system, ridge and furrow method, saucer basins / semi circular bunds, compartmental bunding, tied ridges</p> <p>Vegetative nitrogen fixing hedge/ mixed use protective fencing/ critical barriers</p> <p>Contour / graded / staggered bunding / trenching</p> <p>Bench Terracing / Zing Terracing</p>	<p>50% of cost limited to Rs.4,000/- per ha.</p> <p>Maximum permissible assistance will be restricted to 2 ha per beneficiary/group.</p> <p>50% of cost subject to a limit of Rs. 5000/- per ha to individual and 90% of cost in case of common land proposed in project mode with other activities.</p> <p>Maximum permissible assistance shall be restricted to Rs. 10,000/- for individual beneficiary and Rs. 1 lakh for a common property per village.</p> <p>50% of cost limited to Rs. 20,000/- per ha.</p> <p>Maximum permissible assistance will be restricted to 2 ha per beneficiary/group.</p>	-

		Upper reach gully control bund (Earthen with vegetative support/loose boulder/gabion)	<p>50% of the cost subject to a limit of Rs. 3,000/- per structure in case of individual and 100% in case of common land proposed in project mode with other activities.</p> <p>Maximum permissible assistance shall be Rs. 15,000/- per individual and Rs. 1.2 lakh for a common property per village.</p>	-
		Middle reach gully control bund (Earthen with vegetative support/loose boulder/check bund/gabions)	<p>50% of cost subject to a limit of Rs. 12,000/- per structure in case of individual and 100% in case of common land proposed in project mode with other activities.</p> <p>Maximum permissible assistance shall be restricted to Rs. 24,000/- per individual and Rs. 1.2 lakhs for a common property per village.</p>	-
		Lower reach gully control structure (Earthen with vegetative support/loose boulder/check bund/gabions)	<p>50% of the cost subject to a limit of Rs. 20,000/- per structure in case of individual and 100% in case of common land proposed in project mode with other activities.</p> <p>Maximum permissible assistance shall be restricted to Rs. 40,000/- per individual and Rs. 2.4 lakhs for common property per village.</p>	-
		Spill ways (Drop, Chute, Spur, Retaining wall)	<p>50% of the cost subject to a limit of Rs. 40,000/- per structure in case of individual and 100% in case of common land proposed in project mode with other activities.</p> <p>Maximum permissible assistance shall be restricted to Rs. 40,000/- per individual and Rs. 1.6 lakhs for common property per village.</p>	-

12	Vermi compost Units/organic input production unit, green manuring	Construction of Vermi compost units, organic input production units and green manuring.	50% of cost subject to a limit of Rs. 125/- per cubic ft. Maximum permissible assistance shall be Rs. 50,000/- per unit for permanent structure and Rs. 8,000/- per unit for HDPE vermi bed. 50 % of cost limited to Rs. 2000/- per ha and restricted to 2 ha per beneficiary for green manuring.	-
13	Post harvest& Storage/value addition of NTFP	Small village level Storage/ packaging/processing unit for value addition to the produce of farming system to fetch better economic returns.	50% of capital cost subject to a limit of Rs. 4000/- per square meter of storage/processing unit. Maximum permissible assistance shall be restricted to Rs. 2.0 lakh per unit.	-
14	Formation of Farmer Producers Organizations (FPOs) and their training		As per policy & process guidelines for FPOs issued by SFAC, DAC, Ministry of Agriculture. (Up to 2% of project cost)	Out of the State level administrative provision for NMSA
15	Reclamation of Problem soil	Alkali/saline Soil	50% of cost subject to a limit of Rs. 25,000/- per ha and/or Rs. 50,000/- per beneficiary	-
		Acid Soil	50% of cost subject to a limit of Rs. 3,000/- per ha and/or Rs. 6,000/- per beneficiary	
16	Concept of Integrated Farming, Climate change adaptation, Good agriculture practices on soil, water and crop management	Training to farmers including field demonstrations; Capacity building of stakeholders/farmers through field visits	Rs. 10,000/- per training session for 20 participants or more. Rs. 20,000/- per demonstration for a group of 50 participants or more.	-
B. Soil Health Management (SHM)			Details of SHM are in Chapter -2	
C. On Farm Water Management (OFWM)				
1	Micro Irrigation	Drip Irrigation (Wide spaced crops)	35% of the total cost of installations for small & marginal farmers and 25% of actual cost of installation for	Additional 10% assistance to be

			<p>others in non-DPAP/DDP/NE&H regions.</p> <p>50% of the actual cost of installations for small & marginal farmers and 35% of cost of installation for others in DPAP/DDP areas and NE & H States.</p> <p>Estimated Cost of installation is Rs. 37200/ha (average). However assistance to farmers will be as per norms of individual crop spacing given at Annexure I. Maximum permissible assistance will be restricted to 5 ha per beneficiary/group. (DPAP- Drought Prone Area Programme, DDP- Desert Development Programme, NE&H States - North Eastern and Himalayan States)</p>	provided by State Govt. to all categories of farmers.
		Drip Irrigation (Close spaced crops with rows at less than 1.2 meter)	<p>35% of the total cost of installations for small & marginal farmers and 25% of actual cost of installation for others in non-DPAP/DDP/NE&H regions.</p> <p>50% of the actual cost of installations for small & marginal farmers and 35% of cost of installation for others in DPAP/DDP areas and NE & H States.</p> <p>Estimated Cost of installation is Rs. 90,000/ha (average). However assistance to farmers will be as per norms for different land sizes given at Annexure I. Maximum permissible assistance will be restricted to 5 ha per beneficiary/group</p>	Additional 10% assistance to be provided by State Govt. to all categories of farmers
		Micro Sprinkler	<p>35% of the total cost of installations for small & marginal farmers and 25% of actual cost of installation for others in non-DPAP/DDP/NE&H regions.</p>	Additional 10% assistance to be provided by State

			<p>50% of the actual cost of installations for small & marginal farmers and 35% of cost of installation for others in DPAP/DDP areas and NE & H States.</p> <p>Additional 10% assistance to be provided by State Government to all categories of farmers.</p> <p>Estimated Cost of installation is Rs. 58,900/ha. Maximum permissible assistance will be restricted to 5 ha per beneficiary/group.</p>	Govt. to all categories of farmers
		Mini Sprinkler	<p>35% of the total cost of installations for small & marginal farmers and 25% of actual cost of installation for others in non-DPAP/DDP/NE&H regions.</p> <p>50% of the actual cost of installations for small & marginal farmers and 35% of cost of installation for others in DPAP/DDP areas and NE & H States.</p> <p>Estimated Cost of installation is Rs. 85,200/ha.</p> <p>Maximum permissible assistance will be restricted to 5 ha per beneficiary/group</p>	Additional 10% assistance to be provided by State Govt. to all categories of farmers
		Portable Sprinkler	<p>35% of the total cost of installations for small & marginal farmers and 25% of actual cost of installation for others in non-DPAP/DDP/NE&H regions.</p> <p>50% of the actual cost of installations for small & marginal farmers and 35% of cost of installation for others in DPAP/DDP areas and NE & H States.</p> <p>Estimated Cost of installation is Rs. 19,600/ha .</p> <p>Maximum permissible assistance</p>	Additional 10% assistance to be provided by State Govt. to all categories of farmers

			will be as per length of pipe and restricted to 5 ha per beneficiary/group	
		Semi Permanent Irrigation System	<p>35% of the total cost of 35% of the total cost of installations for small & marginal farmers and 25% of actual cost of installation for others in non-DPAP/DDP/ NE&H regions.</p> <p>50% of the actual cost of installations for small & marginal farmers and 35% of cost of installation for others in DPAP/DDP areas and NE & H States.</p> <p>Estimated Cost of installation is Rs. 36,600/ha .</p> <p>Maximum permissible assistance will be restricted to 5 ha per beneficiary/group</p>	Additional 10% assistance to be provided by State Govt. to all categories of farmers
		Large Volume Sprinkler Irrigation System (Raingun)	<p>35% of the total cost of installations for small & marginal farmers and 25% of actual cost of installation for others in non-DPAP/DDP/ NE&H regions.</p> <p>50% of the actual cost of installations for small & marginal farmers and 35% of cost of installation for others in DPAP/DDP areas and NE & H States.</p> <p>Estimated Cost of installation is Rs. 31,600/ha .</p> <p>Maximum permissible assistance will be as per length of pipe and restricted to 5 ha per beneficiary/group</p>	Additional 10% assistance to be provided by State Govt. to all categories of farmers
		Training Programme	Rs. 50,000/- per training programme(For 30 participants for a duration of at least 2 -3 days)	-
2	On-farm water distribution / application	Land leveling, Construction of field channels, sub surface distribution with box outlets	<p>50% of cost limited to Rs. 12,000/- per ha.</p> <p>Maximum permissible assistance will be restricted to 5 ha per farm family.</p>	-

		Construction of Secondary Storage Structures with protective fence, Connectivity from canal /distributor / outlet, inlet and silt detention structures at feasible locations	50% of cost limited to Rs. 100 per cum of storage capacity. Maximum permissible assistance will be restricted to Rs. 2 lakh per beneficiary.	-
3	On farm Drainage	Support for mechanical, biological or combination of both systems for improving drainage in waterlogged farm land. Activities like field drains, laterals, connecting drains, refuse/sink, agronomic measures etc. would be supported.	50% of cost limited to Rs. 25,000 per ha. Maximum permissible assistance will be restricted to Rs. 1 lakh per beneficiary.	-

D. Climate Change and Sustainable Agriculture Modeling & Networking (CCSAMN)

1	Climate Change Adaptation and Mitigation	State will be supported to illustrate functional mechanism for dissemination of rainfed technologies, planning, convergence and coordination in pilot blocks.	Rs. 10 crore/Block (Rs. 3.0 crore for facilitation and Rs. 7.0 crore for innovative and gap filling activities)	-
		Research/model/pilot projects for different agro climatic conditions on climate change adaptation and mitigation	As per project	
		Capacity Building, Training and networking projects on climate change adaptation and mitigation	As per project	

Annexure I

Cost of installation of Drip Irrigation System for different spacing and land size

Lateral Spacing (m)	Amount in Rupees				
	1ha	2ha	3ha	4ha	5ha
A. Wide Spaced crops					
8m & above	23,500	38,100	59,000	74,100	94,200
4m to <8m	33,900	58,100	89,300	1,13,200	1,42,400
2m to <4m	58,400	1,08,000	1,61,800	2,20,600	2,71,500
B. Closed Spaced crops					
1.2m to <2 m	85,400	1,61,300	2,43,400	3,32,800	4,12,800
<1.2m	1,00,000	1,93,500	2,92,100	3,99,400	4,95,400

Component wise Pattern of assistance (under centrally sponsored scheme)**A. Soil Health components of SHM under NMSA**

Sl.	Component	Pattern of assistance
1.	Setting up of new Mobile/Static soil testing laboratories (MSTL/ SSTL)	75% Assistance of total project cost to State Govt. for SSTL subject to a maximum limit of Rs 56 lakh per SSTL/MSTL.
2.	Strengthening of existing SSTL/MSTL.	75 % Assistance to State Govt. subject to a maximum limit of Rs 30 lakh per MSTL/SSTL.
3.	Training and demonstration on Soil Health management	Training to STL / FTL Staff, field functionaries. Rs.25,000/- per training session for 20 participants or more. Training to farmers including field demonstrations; Rs. 10,000/-per training session for 20 participants or more. Rs. 20,000/- per Front Line Field Demonstration
4.	Creation of databank on location specific balanced use of fertilizers	One time assistance to State Govt. up to Rs. 10 lakh per state.
5.	Creation of District-wise Digital soil fertility maps	One time assistance to State Govt. up to Rs. 6.00 lakh per district subject to maximum of Rs. 50 lakh for one State per annum.
6.	Providing Portable Soil Testing Kit to field level officers of State Govt.	Assistance @ Rs.15,000/Kit
7.	Promotion and distribution of micronutrients	50% of cost subject to a limit of Rs. 500/- per ha and/or Rs. 1000/- per beneficiary.
8.	Strengthening of existing Fertilizer Quality Control Labs (FTLs) by State Govts	Assistance to State Govt. subject to a maximum limit of Rs.30 lakh per FTL
9.	Setting up of new Fertilizer Quality Control Labs by State Govts	100% assistance to State Govt. subject to a maximum limit of Rs 75 lakh per FTL.

B. Organic& INM components of SHM under NMSA

Sl.	Component	Pattern of assistance
1	Setting up of mechanized Fruit/Vegetable market waste/ Agro waste compost production unit.	100% Assistance to State Govt/Govt. Agencies upto a maximum limit of Rs. 190.00 lakh /unit and 33% of cost limited to Rs. 63 lakh/unit for individuals/ private agencies through NABARD as capital investment for 3000 TPA production capacity
2	Setting up of State of art liquid/ carrier based Biofertilizer/ Biopesticide units	100% Assistance to State Govt/Govt. Agencies upto a maximum limit of Rs. 160.00 lakh /unit and 25% of cost limited to Rs. 40 lakh/unit for individuals/ private agencies through NABARD as capital investment of 200 TPA production capacity
3	Setting up of Bio-fertilizer and Organic fertilizer testing Quality Control Laboratory (BOQCL) or Strengthening of existing Laboratory under FCO.	Assistance up to maximum limit of Rs. 85 lakh for new laboratory and up to a maximum limit of Rs. 45 lakh for strengthening of existing infrastructure to State Government Laboratory under Agriculture or Horticulture Department.
4	Promotion of Organic Inputs on farmer's field (Manure, Vermi-compost, Bio-Fertilizers Liquid / solid, Waste compost, Herbal extracts etc.)	50 % of cost subject to a limit of Rs. 5000/- per ha and Rs. 10,000 per beneficiary. Propose to cover 1 million ha area.
5	Adoption of organic farming through cluster approach under Participatory Guarantee System (PGS) certification.	Rs. 20,000/- per ha subject to maximum of Rs. 40,000/- per beneficiary for 3 year term.
6	Support to PGS system for on-line data management and residue analysis	Rs. 200 per farmer subject to maximum of Rs. 5000/- per group/year restricted to Rs. 1.00 lakh per Regional Council. Up to Rs. 10, 000/- per sample for residue testing (Residue analysis to be done in NABL Labs)
7	Organic Village adoption for manure management and biological nitrogen harvesting	Rs. 10 lakhs/village for adoption of integrated manure management, planting of fertilizer trees on bunds and promotion of legume intercropping through groups/ SHGs etc. (Maximum 10 village per annum/State will be supported)
8	Training and demonstration on Organic Farming	Capacity building of stakeholders on organic farming, Participatory Guarantee System (PGS),

		quality control of organic input etc. Rs. 20,000/- per demonstration for a group of 50 participants or more
9	Support to research for development of organic package of practices specific to state and cropping system	Against specific proposal
10	Setting up of separate Organic Agriculture Research and Teaching Department	Against specific proposal

C. Activities to be implemented by GOI Institutes / Centres

Sl.	Component	<u>Institute / Centre</u>
1	Soil survey & capacity building of stakeholders.	Will be implemented by Soil and Land Use Survey of India (SLUSI). Soil and land resource surveys and develops soil-related database for the planning and implementation of land development programmes, Soil resource mapping, developing a GIS-based web server, support training and skill development in the areas of soil health management, water management, integrated farming etc.
2	Promotion of Organic farming .	Will be implemented by National Centre for Organic Farming (NCOF) and its regional Centers. Promotion of organic farming through technical capacity building of stakeholders, technology development, transfer of technology, promotion & production of quality organic and biological inputs, awareness creation & publicity, quality control requirements of bio-fertilizers & organic fertilizers including revision of standards & testing protocols, organic input resource management and market development.
3	Fertilizer quality control.	Will be implemented by Central Fertilizer Quality Control & Training Institute (CFQC&TI). Inspection and analysis of indigenous and imported fertilizers, standardization of methods of analysis and providing technical guidance to the State Governments on integrated nutrient management.



