

AGRICULTURAL ENGINEERING

SCHEME NO.1	
Name of Scheme	Provision of Solar Powered Pumping Systems
Funding Pattern	MNRE and State Fund
Project Area	All districts (except Chennai)
Objectives	<ul style="list-style-type: none"> • To promote environment friendly renewable energy (Green Energy) viz., solar energy as an alternative source of conventional power in agriculture. • To provide energy security to farmers for irrigation. • To increase farm income.
Details of Works	Provision of Solar Powered pumping System with subsidy assistance to the individual farmers' fields for irrigation.
Benefits offered (Subsidy)	<ul style="list-style-type: none"> • Subsidy for the year 2019-20 is 70% (30% MNRE and 40% State) and Farmer contribution is 30% • The farmer availing the Standalone Solar Pump and is an applicant of TANGEDGO power for free connection, then the farmer may be allowed to be retained in the seniority list after getting an undertaking that when the farmers turn for free power connection comes under Normal priority, the solar pump will be connected to the Grid.
Eligibility	All farmers with reliable water source for irrigation, and no electrical connection.
Time-limit for Implementation	Programme will be completed in 2 phases viz., phase I during 2019-20 and phase II during 2020-21.
Officer to be approached	<p>Revenue Division level Assistant Executive Engineer</p> <p>District level Executive Engineer</p> <p>Regional level Superintending Engineer</p> <p>State Level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322 ,044-2951 5422</p>

SCHEME NO:2	
Name of Scheme	Provision of Solar drying units
Funding Pattern	Centrally shared scheme Centre - 60%, State - 40%
Project Area	All districts (except Chennai)
Objectives	<ul style="list-style-type: none"> • Hygienic and eco-friendly method of drying. • Low operation, maintenance cost and further drying. • To add value to the produce and to fetch higher prices. • To enable the farmers to move to next chain of value addition in processing.
Details of Works	Provision of Polycarbonate sheet covered green house type Solar driers of 400 Sq.ft to 1,000 Sq.ft to the farmers and farmer groups for drying agricultural produce like Coconut, Chillies, Banana, Tomato, Moringa leaves, Curry leaves, Herbal leaves, Cloves, Ginger, Maize, Gingelly etc.
Benefits offered (Subsidy)	A subsidy assistance of Rs.3.50 lakh or 60% of total cost whichever is less for SC/ST, small, marginal and women farmers per unit and Rs.3 lakh or 50% of total cost whichever is less for other beneficiary per unit.
Eligibility	All the farmers and farmer groups those who provide land for installation of solar driers.
Time-limit for Implementation	Works will be completed within the financial year
Officer to be approached	<p>Revenue division level Assistant Executive Engineer</p> <p>District level Executive Engineer</p> <p>Regional level Superintending Engineer</p> <p>State Level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322 ,044-2951 5422</p>

SCHEME NO.3	
Name of Scheme	Land Development Scheme
Funding Pattern	State Plan
Area of operation	All districts (except Chennai and Kanyakumari)
Objectives	<ul style="list-style-type: none"> • To develop barren and undulating lands through Land levelling and shaping to bring them under cultivation in order to increase food production. • To support farmers in the cultivation operations with "Farm Power" for taking up timely cultivation practices, manage labour shortage and reduce cost as well as drudgery.
Details of Works	<ul style="list-style-type: none"> • Land Shaping • Land Levelling • Ploughing, Puddling, Sowing and Paddy harvesting
Benefits offered (Subsidy)	Hires out the machinery to farmers at subsidised hire charges for the above cultivation practices.
Eligibility	Machinery are allotted on priority basis to all farmers who pays hire charges in advance.
Officer to be approached	<p>Revenue division level Assistant Executive Engineer</p> <p>District level Executive Engineer</p> <p>Regional level Superintending Engineer</p> <p>State Level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322 ,044-2951 5422</p>

Details of hire charges of Land Development Machinery

Sl. No.	Name of Machinery	Hire Charges including Diesel (Rupees per hour)
1	Bulldozer	840
2	Tractor	340
3	Combine Harvester (rubber track type)	1,415
4	Combine Harvester (wheel type)	875

Note: Hire charges are subject to change based on the market rate of the diesel.

SCHEME NO.4			
Name of Scheme	Minor Irrigation Scheme		
Funding Pattern	State Plan		
Area of operation	All districts (Except Chennai, Kanyakumari, The Nilgiris, Krishnagiri, Madurai, Perambalur, Namakkal and Dindigul districts)		
Objectives	<ul style="list-style-type: none"> • To explore and harness groundwater resources for creating additional irrigation facilities • To stabilize the areas already under irrigation • Promoting conjunctive use of surface water and ground water • To assist farmers in locating sites for sinking wells. 		
Details of works	<ul style="list-style-type: none"> • Construction of tube wells in alluvial soil • Revitalisation of open wells by deepening in hard rock areas • Selection of sites for construction of open wells and bore wells 		
Benefits offered	Hires out machinery to farmers at subsidised hire charges to execute the above works.		
Eligibility	Machinery are allotted on priority basis to all farmers who pays hire charges in advance.		
Officer to be approached	Revenue division level Assistant Executive Engineer District level Executive Engineer Regional level Superintending Engineer State Level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322 ,044-2951 5422		
Details of Hire Charges of Minor Irrigation Machinery			
(in Rupees)			
Sl. No.	Name of the Machinery	Unit	Agricultural purpose
1	Percussion Drill	Per Day	300
2	Rotary Drill 8" (200 mm) dia	Per Metre	130
3	Rock Blasting Unit	Per Blast	250
4	Hand Boring Set 6"(150 mm) dia	Per Metre	30
5	Mini Drill 8" (200 mm) dia	Per Metre	70
6	Resistivity meter	Per Point	500
7	Electrical logger	Per Bore Hole	1,000

SCHEME NO.5	
Name of Scheme	Sub Mission on Agricultural Mechanization (SMAM)
Funding Pattern	Centrally sponsored scheme Centre - 60%, State - 40%
Project Area	All districts (Except Chennai)
Objectives	<ul style="list-style-type: none"> • Promoting Agricultural Machinery and Implements to the individual farmers with subsidy assistance. • Increasing the reach of farm mechanization to small and marginal farmers to improve the farm power. • Promoting 'Custom Hiring Centres' to hire out Agricultural Machinery and Implements at nominal charges to the needy farmers.
Details of Works	Providing subsidy assistance to Farmers / Custom Hiring Centres for the purchase of Agricultural Machinery/ Implements such as Tractor, Rotavator, Power Tiller (8 BHP and above), Paddy Transplanter, Power Weeder, Chaff Cutter, Brush Cutter, Combine Harvester, Multi Crop Thresher, etc.
Benefits offered (Subsidy)	<ul style="list-style-type: none"> • Providing subsidy assistance to the individual farmers for the purchase of Agricultural Machinery / Implements with 50% subsidy or the maximum permissible subsidy prescribed by Government of India, whichever is less for farmers under Small, Marginal, Scheduled Caste, Scheduled Tribe and Women farmers and 40% subsidy or the maximum permissible subsidy prescribed by Government of India, whichever is less for other beneficiary farmers. • Providing 40% subsidy assistance to the progressive farmers, Self Help Groups of farmers and entrepreneurs for the establishment of block level Custom Hiring Centres. • Providing 80% subsidy assistance to the Co-operative societies of farmers, Self Help Groups of farmer, FPOs etc., for the establishment of village level Custom Hiring Centres. • Beneficiaries are free to choose any type of approved Agricultural Machinery and Implements from the empanelled agricultural machinery manufacturing firms through Government of India DBT portal www.agrimachinery.nic.in.

Eligibility	<p>For individual based machinery - All farmers.</p> <p>For the establishment of Custom Hiring Centres at block level – All Progressive Farmers, Self Help Groups of farmers and Entrepreneurs.</p> <p>For the establishment of Custom Hiring Centres at village level - All Co-operative Societies of farmers, Self Help Groups (SHG) of farmers, FPOs etc.</p>
Time-limit for Implementation	Programme will be completed within the financial year
Officer to be approached Revenue Districts	<p>Revenue division level Assistant Executive Engineer</p> <p>District level Executive Engineer</p> <p>Regional level Superintending Engineer</p> <p>State Level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322 ,044-2951 5422</p>

SCHEME NO.6	
Name of Scheme	Mechanized Sugarcane Cultivation through Progressive Farmer/ Entrepreneurs in Tamil Nadu under SMAM
Funding Pattern	Centrally shared scheme Centre - 60%, State - 40%
Project Area	All districts (Except Chennai)
Objectives	<ul style="list-style-type: none"> • To increase the net income of the farmers by mechanizing the sugarcane cultivation. • To encourage the farmers to use the Agricultural Machinery and Implements in sugarcane cultivation from seed bed preparation to harvesting and residue management. • To take up timely harvesting of sugarcane crop and increase the sugarcane production. • To hire out sugarcane cultivation machinery and implements to the needy farmers at nominal charges in co-ordination with sugar mills concerned.
Details of Works	Providing 40% subsidy assistance to the progressive farmers, Entrepreneurs for forming the sugarcane cultivation machinery and implements Custom Hiring Centre in co-ordination with sugar mills.
Benefits offered (Subsidy)	<ul style="list-style-type: none"> • Establishment of Sugarcane based Custom Hiring Centre with 40% subsidy assistance to a maximum permissible subsidy of Rs.60 lakh for a total project cost of Rs.150 lakh per Sugarcane based Custom Hiring Centre. • Progressive farmers / Entrepreneurs can select any approved make and model of sugarcane cultivation machinery and implements according to their choice from the empanelled agricultural machinery manufacturing firms.
Eligibility	<ul style="list-style-type: none"> • The progressive farmers / Entrepreneurs for the establishment of Sugarcane based Custom Hiring Centre in the order of priority on first come first serve basis along with paying total amount upfront.

Time-limit for Implementation	Programme will be completed within the financial year
Officer to be approached	<p>Revenue division level Assistant Executive Engineer</p> <p>District level Executive Engineer</p> <p>Regional level Superintending Engineer</p> <p>State Level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322 ,044-2951 5422</p>

SCHEME NO.7	
Name of Scheme	River Valley Project
Funding Pattern	Centrally sponsored scheme Centre - 60%, State - 40%
Project Area	South Pennaiyar and Mettur Catchments in Krishnagiri and Erode Districts
Objectives	<ul style="list-style-type: none"> • Prevention and control of soil loss in the catchments to reduce sedimentation of multipurpose reservoirs. • Prevention of land degradation and watershed management in the catchment areas. • Improvement of land capability and moisture regime in the watersheds.
Details of works	<ul style="list-style-type: none"> • Drainage Line Treatment • Water Harvesting Structures • Silt Detention Structures • Land Development activities
Benefits offered (Subsidy)	100% Grant is provided for all soil and water conservation measures executed in community lands. Works to individual farmers are executed with 50% subsidy.
Eligibility	All the farmers in the catchment areas covered in the selected watersheds in South Pennaiyar and Mettur catchments.
Time-limit for Implementation	Programme will be completed within the financial year.
Officer to be approached	<p>Revenue division level Assistant Executive Engineer, Krishnagiri and Erode.</p> <p>District level Executive Engineer, Krishnagiri and Erode.</p> <p>Regional level Superintending Engineer, Salem and Coimbatore.</p> <p>State Level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322 ,044-2951 5422</p>

SCHEME NO. 8	
Name of Scheme	Special Area Development Programme
Funding Pattern	State Plan
Project Area	Hill areas and forest fringe villages of Western Ghats in Tiruppur, Erode, The Nilgiris, Madurai, Theni, Virudhunagar, Dindigul, Tirunelveli, Tenkasi and Kanniyakumari districts.
Objectives	Ecological restoration and conservation by adopting integrated watershed based approach in a holistic manner for sustainable livelihood and enhancing agricultural productivity.
	<ul style="list-style-type: none"> • Construction of Check dams • Construction of Gabion check dams • Construction of Erosion control structures
Benefits offered (Subsidy)	100% grant is provided for all soil conservation and water management measures in community land. For individual based works 90% subsidy for ST category, 80% subsidy for SC Category and 50 % subsidy for General category
Eligibility	All farmers of the hill areas and forest fringe villages of Western Ghats in Tiruppur, Erode, The Nilgiris, Madurai, Theni, Virudhunagar, Dindigul, Thirunelveli, Tenkasi and Kanniyakumari districts
Time-limit for Implementation	Programme will be completed within the financial year
Officer to be approached	<p>Assistant Executive Engineer, Special Area Development Programme (SADP), Coonoor, Coimbatore, Dindigul, Madurai and Tirunelveli.</p> <p>Assistant Executive Engineer, Udhagamandalam and Gudalur.</p> <p>Executive Engineer(AE), Special Area Development Programme (SADP), Madurai</p> <p>Executive Engineer(AE), Udhagamandalam.</p> <p>Superintending Engineer(AE), Udhagamandalam, Coimbatore, Madurai, Virudhunagar and Tirunelveli.</p> <p>State Level Chief Engineer(AE), Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322 ,044-2951 5422.</p>

SCHEME NO. 9	
Name of Scheme	Dam Rehabilitation and Improvement Project
Funding Pattern	World Bank aided
Project Area	Catchment areas of Vaigai in Theni district and Parappalar, Nanganchar and Kudaganaru reservoirs in Dindigul district
Objectives	<ul style="list-style-type: none"> • To prevent land degradation by adoption of soil conservation measures • To reduce siltation of reservoirs • To reduce soil erosion and to conserve top soil
Details of works	<ul style="list-style-type: none"> • Loose boulder check Dams • Gabion Check Dams • Check Dams • Silt Monitoring Stations
Benefits offered (Subsidy)	100%
Eligibility	All farmers of Vaigai, Parappalar, Nanganchar and Kudaganaru reservoir catchment areas
Time-limit for Implementation	Programme will be completed in 5 years (2020-21 to 2024-25)
Officer to be approached	<p>Respective Revenue Division Level Assistant Executive Engineer, Theni, Uthamapalayam, Dindigul, Palani and Kodaikanal.</p> <p>Respective District level Executive Engineer, Theni and Dindigul.</p> <p>Respective Region level Superintending Engineer, Madurai.</p> <p>State Level Chief Engineer(AE), Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044-2951 5322, 044-2951 5422.</p>

SCHEME NO.10		
Name of Scheme	World Bank Aided Tamil Nadu Irrigated Agriculture Modernization Project (TNIAMP)	
Funding Pattern	World Bank aided State Plan	
Project Area	Total 66 Sub-basins. In Phase-I - 14 Sub-basins, Phase-II -16 sub-basins and Phase-III - 10 sub-basins	
Sl.No.	Name of Sub-basin	Districts covered
A	Phase-I - 14 Sub-basins	
1	Lower Palar	Kancheepuram
2	Nagariyar	Tiruvallur
3	Lower Vellar	Cuddalore
4	Pambar to Krishnagiri	Krishnagiri and Dharmapuri
5	Sathaiyar	Madurai
6	Sirumalaiyar	Dindigul and Madurai
7	Gowsiganadhi	Madurai and Virudhunagar
8	Gadana Nadhi	Tirunelveli
9	Manjalar	Dindigul
10	Lower Thamirabharani	Tirunelveli and Thoothukudi
11	Kallar	Thoothukudi
12	Cauvery Delta	Nagapattinam, Thanjavur, Tiruvarur, Tiruchirappalli and Pudukkottai
13	Ponnaniyar	Pudukkottai and Tiruchirappalli
14	Lower Bhavani	Erode
B	Phase - II - 16 Sub-basins	
1	Lower Pennaiyar	Villupuram and Cuddalore
2	Nandhiyar	Tiruvallur and Vellore
3	Pambar	Krishnagiri and Vellore
4	Vaniyar	Dharmapuri
5	Agaramaru	Vellore
6	Aliyar	Tiruvannamalai
7	Lower Coleroon (CR) & Lower Coleroon (TR)	Cuddalore, Ariyalur ,Thanjavur and Nagapattinam
8	Mettur-Noyyal Confluence (CR) & Mettur-Noyyal Confluence (TR)	Dharmapuri, Salem and Namakkal
9	Thirumanimuthar	Salem and Namakkal
10	Karaipottanar	Namakkal and Tiruchirappalli
11	Aiyyar	Tiruchirappalli
12	Pungar	Karur
13	Nandhiyar-Kulaiyar	Tiruchirappalli and Ariyalur
14	Pachaiyar	Tirunelveli
15	Chittar	Tirunelveli
16	Uppar	Madurai and Sivagangai

Sl.No.	Name of Sub-basin	Districts covered
C	Phase – III - 10 Sub-basins	
1	Cheyyar	Kancheepuram, Vellore, Tiruvannamalai
2	Chinnar	Krishnagiri, Dharmapuri
3	Gummidipoondi	Tiruvallur
4	Manimukthanadhi	Villupuram
5	Musukundanadhi	Villupuram
6	Paravanar	Cuddalore
7	Uppanar	Cuddalore
8	Vegavathy	Kancheepuram, Vellore, Tiruvannamalai
9	Marudhaiyar	Ariyalur
10	Nambiyar	Tirunelveli
Objectives	<ul style="list-style-type: none"> • More crop per drop of water • Increasing the yield and income of the farmer 	
Details of works	<ul style="list-style-type: none"> • Construction of Farm ponds 	
Benefits offered (Subsidy)	Rs.75,000 subsidy to all category farmers	
Eligibility	All farmers in the selected sub-basins	
Time-limit for Implementation	Programme will be completed within the project period.	
Officer to be approached	<p>Respective Revenue Division Level Assistant Executive Engineer</p> <p>Respective District level Executive Engineer</p> <p>Respective Regional level Superintending Engineer</p> <p>State Level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322, 044-2951 5422.</p>	

SCHEME NO.11	
Name of Scheme	Distribution of Post Harvest Technology and Management Machinery for all types of Horticulture, Food grain and Oil seed crops.
Funding Pattern	Centrally sponsored scheme Centre - 60%, State - 40%
Project Area	All Districts (Except Chennai)
Objectives	<ul style="list-style-type: none"> • To avoid rural farmers sell their agricultural produce to middle man at low price and subsequently buy processed products at high price from urban market. • To reduce the quantitative losses of farm produce after harvesting to storage period and upto marketing level. • To generate income and employment in rural areas through adoption of proven technologies and machinery available for all types of Horticulture, Food Grain and Oil seed crops.
Details of Works	<ul style="list-style-type: none"> • Purchase of Post Harvest Technology and Management machinery such as Mini dhall mill, Millet mill, Oil mill with filter press, Extractor, Packing machine, Power driven dehusker, Sheller, Thresher, Harvester, Peeler, Stripper, Splitter, Boilers, Steamer, Washing machines, Grinder, Pulverizer, Polisher, Cleaner cum grader, Gradient separator, Specific gravity separator, Dehydration unit, Packing machinery etc., for all types of Horticulture / Food grain / Oil seed crops.
Benefits offered (Subsidy)	<ul style="list-style-type: none"> • Providing subsidy assistance to Individual Farmers, Self Help Group (SHG), User Groups (UG) of farmers, Co-operative Societies of Farmers, Farmer Producer Organisations (FPOs) and Entrepreneurs for the purchase of Post Harvest Technology and Management machinery with maximum 50% subsidy or the eligible subsidy prescribed by the Government whichever is less for other beneficiary farmers and a maximum of upto 60% subsidy or the eligible subsidy prescribed by the Government, whichever is less for farmers under Small, Marginal Scheduled Caste, Scheduled Tribe and Women farmers.

Eligibility	All Farmers, additional benefits to Small, Marginal Scheduled Caste, Scheduled Tribe and Women farmers.
Time-limit for Implementation	Programme will be completed within the financial year on a first come first serve basis along with paying total amount upfront.
Officer to be approached	<p>Revenue division level Assistant Executive Engineer.</p> <p>District level Executive Engineer.</p> <p>Regional level Superintending Engineer.</p> <p>State Level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone: 044- 2951 5322, 044-2951 5422.</p>

SCHEME NO. 12	
Name of Scheme	Reclamation of Problem soils
Funding Pattern	Centrally sponsored scheme Centre - 60%, State - 40%
Project Area	Cuddalore and Nagapattinam Districts.
Objectives	To reclaim the lands affected by Salinity and Alkalinity and to bring back to enhanced crop production.
Details of works	<ul style="list-style-type: none"> • Creation of water bodies (Farm Pond). • Surface drains and Link drains with required facilitating structures. • Soil amendment and its mixing. • Chisel ploughing / Deep ploughing. • Application of Farm Yard Manure (FYM) / Shredded agricultural waste materials/ Green manuring and mixing in soil using Rotavators for increasing organic carbon. • Supply of Pulses, Oil seeds, Millet seeds. • Application of Zinc Sulphate. • Capacity Building and Training.
Benefits offered (Subsidy)	100%
Eligibility	All the farmers in the Project area.
Time-limit for Implementation	Programme will be completed within the financial year
Officer to be approached	<p>Assistant Executive Engineer, Chidambaram and Myladuthurai.</p> <p>Executive Engineer, Cuddalore and Nagapattinam.</p> <p>Superintending Engineer, Villupuram and Thanjavur.</p> <p>State level Chief Engineer, Agricultural Engineering Department, Nandanam, Chennai-600 035. Phone 044 29515322, 044 2951 5422.</p>