

## **AGRICULTURAL ENGINEERING DEPARTMENT**

### **THIRUVALLUR DISTRICT**

#### **SCHEMES IMPLEMENTED THROUGH AGRICULTURAL ENGINEERING DEPARTMENT**

##### **1. SUBMISSION ON AGRICULTURAL MECHANISATION**

###### **Objectives**

- To increase the reach of farm mechanization to small and marginal farmers where availability of farm power is low
- Promoting custom hiring centres to hire out Agricultural Machinery and implements on 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 Tractors, Rotavators, Powertillers, Powerweeders etc.,

###### **Subsidy**

- Providing subsidy assistance to the individual farmers for the purchase of Agricultural Machinery / Implements with 40% subsidy or the eligible subsidy prescribed by the Government whichever is less for other beneficiary farmers and 50% subsidy or the eligible subsidy prescribed by the Government, whichever is less for farmers under Scheduled Caste, Scheduled Tribe, Small, Marginal and Women farmers.
- Providing 40% subsidy assistance to the farmers, farmers groups, entrepreneurs for the establishment of block based Custom Hiring Centres.
- Providing 80% subsidy assistance to the Co-operative societies of farmers, Self Help Groups of farmers, FPOs etc. for the establishment of village based Farm Machinery Banks.
- Farmers / Farmers group / Entrepreneurs can select any make and model of agricultural machinery and implements according to their choice from the agricultural machinery

manufacturing firms approved and empanelled by the Agricultural Engineering Department.

## **2. SOLAR POWERED PUMPING SCHEME**

### **Objectives**

1. To promote environment friendly renewable energy (Green Energy) viz., solar energy as an alternative source of conventional power in agriculture.
2. To provide energy security to farmers for irrigation.
3. To increase farm income.

### **Details of works**

Provision of Solar Powered pumping System to the individual farmers' field for irrigation.

### **Subsidy**

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.

## **3.SOLAR DRIER**

### **Objectives**

- To enable post harvest preservation and improve shelf life of agricultural produce by drying them using solar energy under controlled atmosphere and hygienic conditions.
- To bring down the high post harvest losses while drying and to add value addition to the produce.

### **Details of works**

Provision of Polycarbonate sheet covered green house type Solar driers to the farmers/farmers' groups for floor area of 400 Sq.ft to 1000 Sq.ft - for drying agricultural produce like copra, chillies, maize, spices, moringa leaves, banana, mango etc.,

### **Subsidy**

Maximum allowable subsidy is 50% of actual cost of construction or the subsidy arrived according to the floor area on pro rata basis restricted to Rs. 1,60,000/- per unit whichever is less for small, marginal, SC/ST and women farmers and 40% of actual cost or Rs.1,50,000/- per unit whichever is less for other farmers.

#### **4. NABARD FARMPONDS**

##### **5. Details of works**

Farm ponds are small tanks constructed for the purpose of storing water essentially from surface runoff at individual fields. Farm ponds are useful for irrigation, water supply for the cattle, fish production etc. Ponds may be of impounding or dug out type. The size of the pond depends upon the size of land.

### **LAND DEVELOPMENT**

#### **Objectives**

To make irrigation and other farm operations efficient and easier, land leveling and land shaping are taken up in farmers lands and thereby to increase more area under cultivation and to increase food production.

To supplement the "Farm Power" requirements of farmers for taking up timely cultivation operation.

#### **Details of Works**

- Land Shaping
- Land Levelling
- Land Reclamation
- Ploughing, Puddling

### **Hire Charges**

<b>Name of machinery</b>	<b>Hire charges Rs. / Hour (with Diesel)</b>
Bulldozer	840
Tractor	340

### **MINOR IRRIGATION**

#### **Objectives**

To help farmers in locating suitable site through Geo-physical survey for sinking of tube wells.  
To bring new areas under irrigation by creation of additional irrigation facilities.  
To stabilize the areas already under irrigation

#### **Details of Works**

- Selection of sites for construction of Deep Borewells and Tubewells.
- Construction of tubewells in alluvial soil.
- Revitalisation of wells by side boring and blasting in hard rock areas

### **Hire Charges**

<b>Name of machinery</b>	<b>Agriculture purpose</b>
Percussion drill	300/day
Rotary drill	130/m
Hand Boring set	30/m
Resistivity meter	500/point

### **CONTACT DETAILS**

1. Assistant Executive Engineer (AE)  
Thiruvallur Subdivision
2. Assistant Executive Engineer (AE)  
Ponneri Subdivision
3. Assistant Executive Engineer  
Tiruttani Subdivision