

**Fabrication of Innovative Agricultural
Machinery included under SMAM guidelines
for providing subsidy assistance**
08.01.2026

**Presentation by
Chief Engineer (AE),
Agricultural Engineering Department,
Chennai – 600 035.**

1. Motorized Portable Grain Loader



- Motor hp - 0.25 hp
- Motor rpm – 400 rpm
- Reduction Gear - Bevel gear
- Reduction ratio – 1:4
- Auger speed – 100 rpm
- Screw conveyor length - 5 feet
- Induction motor Material - SS 304
- Total Weight of the machine - 18 kg
- **Conveying capacity - 1500 kg/hour**

**Current Location – State Agricultural Machinery Information Data Centre, Nandanam,
Chennai - 600 035**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
39	aaa	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.12,000/-	50%	Rs.9600/-	40%

2. Portable Cattle Shed



- Size - 14.5 feet x 8 feet
- Total Area - 116 square feet
- Number of cattle feeder tub - 2 nos
- Diameter of the cattle feeder tub - 300 mm
- Size of the cattle feeder tub - 900 x 300 mm
- Weight of the unit - 150 kgs
- **Capacity to Accommodate 4 Cows (or) 12 Goats**

Current Location – State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035
Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
39	bbb	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.20,000/-	50%	Rs.16,000/-	40%

3. Mini Tractor Operated Turmeric Digger



- Tractor power requirement : 24 HP
- Mounting type : 3-point linkage
- Digging blade width : 2.5 feet.
- No.of digging bars in digging blade : 6
- No.of support bars in digging blade: 3
- Digging depth: 20 to 30 cm (adjustable)
- Vibrating platform width: 3 feet
- Vibrating platform height: 21 inches
- **Capacity: 4 to 5 hours per acre**

Current Location – Assistant Executive Engineer(AE), AED, Erode

Subsidy

Contact Person – Thiru. Kannan, AE(AE), 9787730755

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
27	E- xi	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,20,000/-	50%	Rs.96,000/-	40%

4. Tractor Trailer fitted loader



- Tractor's hydraulic power is used
- Control lever at the front side of the trailer for upward and downward movement of the lifting arm.
- Material used - MS
- Tractor power required is 35 hp and above
- Height of the lifting arm can be adjusted from 5 feet to 10 feet+
- **Lifting capacity : upto 100 kg**
- **Loading capacity : 120 bales per hour**

Current Location – State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
29	D- xv	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.25,000/-	50%	Rs.20,000/-	40%

5. Tractor Front Mounted Straw loader / Grabber



Material of make : 2 inch iron pipe and 6 mm rods

Maximum load capacity : 2 tonnes

Lifting height : upto 10 m

No. of Hydraulic Cylinders : Two

Hyd. control : Selective Control Valve fitted to the Tractor

**Current Location –
Progressive farmer
Thiru. Boopathy
(Mobile No. 86952 29036),
Seenapuram Village,
Perundurai Block, Erode
District (Tamil Nadu)**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
34	xix	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.3,05,000/-	50%	Rs.2,44,000/-	40%

6. Tractor PTO Operated Flexible Screw Grain Loader



- Minimum Tractor power required : 35 hp
- Suction hose : 10 cm diameter (flexible hose)
- Screw auger : 16 cm pitch
- Length of the flexible hose : 10 metre
- Screw auger : carbon steel
- Flexible suction hose : spring steel
- Frame Height : 12.8 feet
- Chute height : adjustable.

**Current Location - State Agricultural Machinery
Information Data Centre, Nandanam,
Chennai - 600 035**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
39	ccc	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.37,500/-	50%	Rs.30,000/-	40%

7. Motorized Semi - Automatic Multigrain Bag Filling Machine



- Type: Semi Automatic
- Suction pipe diameter: 4 inches
- Material: Mild steel
- Power Source: 1 hp single phase electric motor
- No. of wheels: 2
- Weight: 60 Kgs
- Height of the unit: 154 cm
- **Bag Filling (60 kg) Capacity : 30 bags per hour.**

Current Location – State Agricultural Machinery Information Data Centre (SAMIDC), Nandanam, Chennai – 600 035

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
39	ddd	Max. permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.14,000/-	50%	Rs.11,200/-	40%

8. Tractor Operated Check Basin Former



- Tractor Power Requirement - 35 hp
- Working Width – 2 metre
- Basin Size (Adjustable) - 2 m × 2 m, 2 m × 3 m
- Blade Thickness - 8 to 12 mm
- Blade Material - High Carbon or Boron Steel
- Frame Type - Heavy duty MS (Mild Steel) frame
- Linkage Type - Three point linkage
- Hydraulic System - Tractor hydraulic operated
- Depth Adjustment - Hydraulic
- Operational Speed - 2 to 3 km/hour
- **Check basin forming Capacity :
0.50 acre / hour**

Current Location - State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
30	A - xxx	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.38,000/-	50%	Rs.30,400/-	40%

9. Engine Operated Sugarcane Bunch Elevator



Current Location - State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Subsidy

- Structure Metal frame with an inclined conveyor
- Lifting mechanism Conveyor belt system with spikes
- Power source - 6 hp Petrol engine
- Gear reduction - 1 : 25
- Conveyor type Metal slats with chain-driven system
- Frame material - Mild Steel (MS) for durability
- Elevation height - 3.6 metres
- Mobility Mounted on wheels for easy transportation
- Loading capacity - 500 to 1500 kg per hour

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
39	eee	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,25,000/-	50%	Rs.1,00,000/-	40%

10. Tractor operated Hydraulically Guided Post Hole Digger



- Power requirement: 35 hp and above
- Auger diameter and length - 1 foot and 3.5 feet
- Effective depth of operation: 3 feet
- Gearbox: Heavy duty gear drive
- Operating speed: 540 RPM PTO
- Lifting mechanism: Hydraulic
- Depth control: Hydraulic guided.
- Weight: 600 kg
- **Digging capacity: 30 holes per hour (depending on soil conditions)**

Current Location - State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
28	B - ii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,00,000/-	50%	Rs.80,000/-	40%



11. Tractor Operated Stone Collector

- Working width: 1.5 metre.
- Stone size capacity: Capable of collecting stones of 1 inch size and above
- Minimum Tractor power requirement: Tractor with 60 hp
- Loading height from ground: Approximately 0.6 metre to 0.75 metre
- Material: Mild steel flat
- **Capacity : 0.25 acre / hour (approximately depending upon the field condition)**

Current Location – State Agricultural Machinery Information Data Centre (SAMIDC), Nandanam, Chennai – 600 035

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
30	A - xxviii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,50,000/-	50%	Rs.1,20,000/-	40%

12. Engine operated Furrow cum Ridger



- Easy for handling
- Motor Hp – 6.5
- Ridge length – 5 feet
- Ridge depth and width – 6 inches
- Two rows for every action
- Weight – 50 kg
- Fuel consumption – 1 liter per hour
- **It makes approximately 40 to 50 ridges and furrows / hour**

**Current Location – State Agricultural Machinery Information Data Centre (SAMIDC),
Nandanam, Chennai – 600 035**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xvii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.16,000/-	50%	Rs.12,800/-	40%

13. Tractor operated Rotaridger



- Power : Tractor above 20 BHP
- Material: Boron Steel
- Furrow width: 1.5 feet
- No. of flanges: 3
- No. of blades: 10
- Purpose : Trench making
- **Field capacity : 2.2 Km length of trench per hour**

Current Location - State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
30	xxix	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.75,000/-	50%	Rs.60,000/-	40%

14. Portable Guided Chainsaw



- **Engine Power:** 1.5 Hp
- **Chain Type** - Ripping chain is preferred for smooth and efficient cuts.
- **Cutting Capacity** - Log diameter upto 1 feet
- Cutting length ranges from 16 inches to 48 inches
- Thickness of the wood log is customizable
- Fuel consumption is 650 ml per hour
- It is portable and can be shifted to field easily
- **Capacity : 15 Nos. of 1 metre length of wood logs per hour.**

**Current Location – State Agricultural Machinery Information Data Centre (SAMIDC), Nandanam,
Chennai – 600 035**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xxi	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.18,000/-	50%	Rs.14,400/-	40%

15.Tractor mounted Multi Purpose Equipment – Cultivator cum Bund Former

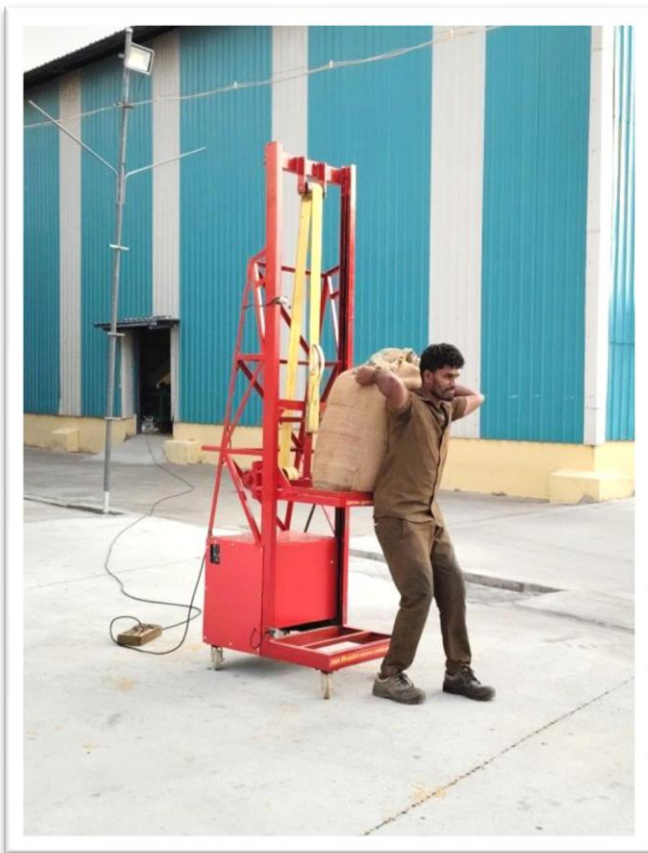


- 3 in 1 - Combination of Cultivator, channel former and bund former
- Single person can handle
- Width of operation – 6 feet
- Weight – 380 kg
- **Capacity : 0.50 acre per hour**

**Current Location – State Agricultural Machinery Information Data Centre (SAMIDC),
Nandanam, Chennai – 600 035**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
30	A - xxxi	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.62,000/-	50%	Rs.49,600/-	40%



16. Motorized Portable Grain Bag Loader

- Length of Machinery : 90 cm
- Breadth of Machinery : 60 cm
- Height of Machinery : 265 cm
- Motor Used : 1 hp Three phase Motor
- Gear reduction ratio : 1:30
- Converter used : Single phase to three phase
- Pulley used : 6 inches & 13 inches
- Lifting capacity : Upto 150 kg
- **No. of bags lifting per hour : 80 to 100 bags**

**Current Location – State Agricultural Machinery
Information Data Centre (SAMIDC), Nandanam,
Chennai – 600 035**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
39	fff	Max.Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.34,000/-	50%	Rs.27,200/-	40%

17. Battery powered Wheel Barrow



- Motor: 250 w, 180 rpm BLDC Motor
- Battery type: 12 v, 9 AH
- No. of Batteries – 2
- Charging hours: 5 hours
- Operating hours: Continuous running 2 hours
- Forward Switch Control
- Maximum Gradient: 130 degrees
- Dimension: 900 mm X 600 mm X 450 mm
- **Carrying Capacity: 200 kgs**

Current Location – State Agricultural Machinery Information Data Centre (SAMIDC), Nandanam, Chennai – 600 035

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xviii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.75,000/-	50%	Rs.60,000/-	40%

18.Pseudostem Injector for Banana



- Type :Battery operated
- Battery : 12 V, DC
- Tank capacity : 15 litres.
- Pump type : Diaphragm pump
- Overall dimension : 800 x 345 x 130 mm
- Dosage: 2 to 4 ml/tree
- **Field capacity: 140 to 150 trees per hour**

Current Location – ICAR, CIAE, Regional Centre, Coimbatore

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
40	xxi	Max.Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.8000/-	50%	Rs.6,400/-	40%

19.Broom Stick Extractor



- Power required: Single phase, 0.25 HP
- No. of rollers: 2 Nos
- No. of blades: 1 No (removable type)
- Overall dimensions: 300 × 300 × 450 mm
- Weight: 25 kg
- **Capacity: 4 to 5 kg/hour (Adequate for 3 to 4 Brooms)**

**Current Location – State Agricultural Machinery Information Data Centre (SAMIDC),
Nandanam, Chennai.**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
38	dd	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.9,400/-	50%	Rs.7,500/-	40%

20. Grain Collector



- Engine: 4-stroke petrol engine
- Power: 3 HP (2.2 kW), 120 cc
- Fuel consumption: 0.8 to 1.0 Litres/hour
- Drive system: Belt and gearbox
- Weight: 115 kg
- Bag capacity: 70 to 80 kg/bag
- **Capacity : 4 to 5 Tons per hour**

Manufacturer - M/s.Gomadhi Engineering Works, Kunnathur, Tiruppur

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
38	ee	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.80,000/-	50%	Rs.64,000/-	40%

21.Crop Reaper cum Binder (4 Wheel)



- Type: Ride-on, self-propelled
- Suitable crops: Paddy, Wheat, Barley, Gingelly
- Crop height range: 800 to 1200 mm
- Application:
Harvesting and binding of grain crops in a single operation
- **Field capacity: 1 acre / hour**

Manufacturer - M/s.BCS India Pvt Ltd.,

Subsidy

Latest SMAM GL Page No.	Latest SMAM GL S No.	For SC,ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
		Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
24	ii	Rs.2,75,000/-	50%	Rs.2,20,000/-	40%

22. Self propelled Tool Bar (Ride on Type)



- Dual ground clearance: 266 mm & 554 mm
- Bi-directional driving: 180° operation
- Narrow width: Just 3 feet (ideal for narrow rows)
- Short turning radius: Easy maneuverability in small fields
- Stable & safe design for horticulture operations
- Multi-speed transmission: 6 Forward + 3 Reverse
- **Coverage: Covers up to 5 acres of farmland per day, depending on the type of operation (e.g., spraying, weeding) and soil conditions.**

Manufacturer - M/s . Mahindra and Mahindra Swaraj Division.,

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xiii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,55,000/-	50%	Rs.1,24,000/-	40%

23.Track Trolley (Hilly Terrain Transportation Vehicle)



- Engine type: Diesel, single cylinder, 4-stroke
- Power: 12 HP
- Starting system: Self-start (battery powered)
- Steering: Independent track control lever
- Tracks: 2 Nos. with 6 rollers each
- Gears: 3 Forward + 1 Reverse
- Top speed: 18 km/hour
- Unladen weight: 680 kg
- **Load carrying capacity: 1500 kg**

**Manufacturer/Supplier – M/s.Beegees Micro Tea Industry, Kothagiri,
The Nilgiris District, Tamil Nadu**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xi	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.2,10,000/-	50%	Rs.1,68,000/-	40%

24. Rotary Disc Harrow (PTO powered)



- Material: Mild Steel
- Working width: 1370 mm
- Overall width: 1980 mm
- Overall length × height: 2100 × 1200 mm
- No. of discs per rotor: 7
- Rotor speed: 167 rpm
- Maximum working depth: 205 mm
- Distance between discs: 220 mm
- Transmission: Chain drive
- Tractor power required: 45 to 60 HP
- Weight: ~535 kg
- **Field capacity: 1 acre/hour**

Current Location – State Agricultural Machinery Information Data Centre, Nandanam, Chennai – 600 035

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
30	xxvii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.75,000/-	50%	Rs.60,000/-	40%

25. Tractor Operated Manure Spreader



- Hydraulic pump: Gear pump, 2000 rpm
- Hydraulic oil tank: Fixed on trailer
- Trailer hopper capacity: 3 to 4 tonnes
- Loading time (using Back hoe loader): approximately 7 minutes
- Spreading radius: ~50 feet on both sides (adjustable)
- **Manure spreading time per full load (3 to 4 tonnes): 10 minutes**

Current Location – Thiru.Nithish Kumar, Namakkal, Tamil Nadu (Mobile No. 8610074899)

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
31	xix	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,50,000/-	50%	Rs.1,20,000/-	40%

26. Tractor PTO/Electric Motor operated Onion De-topper cum Grader



- Developed by IIHR, Bangalore
- Detopper and Grader is powered by 2 hp AC motor.
- Grader has components namely
 - i) feeding chute, ii) Grading drum, iii) collection chute and iv) power transmission system
- **De-topper cum grader capacity :**
- **Small onion: 300 kg/hour**
- **Big onion (Bellary) :1500 kg/hour**

**Current Location – State Agricultural Information Data Centre, Nandanam,
Chennai – 600 035**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
38	uu	Max. Permissible subsidy for capacity from 1 TPH and less than 2 TPH	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.3,75000/-	50%	Rs.3,00000/-	40%

27.Paddy Mobile Drier

➤Type: Tractor drawn, PTO operated.

➤Burner: Oil burner with ON/OFF sequence controlled, Diesel fuel and Indirect fired with heat exchanger.

➤Blower: Centrifugal Fan Type with capacity 6000 to 10000 cubic feet/minute. Power through Tractor PTO Shaft.

➤Drying Capacity: 2 Metric Tons of Paddy per batch
Drying time : 3 hours per batch



Manufacturer– M/s.Kardi Dryers Private Limited, Ambattur, Chennai (Tamil Nadu)

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
38	tt	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.10,80,000/-	50%	Rs.8,64,000/-	40%

28. Solar operated phase change material based fruits- vegetables vending Pushcart



- Developed by Indian Institute of Horticultural Research (IIHR), ICAR, Bengaluru .
- It is a basic tricycle with sturdy base frame with three pneumatic wheels and disk brake system.
- Power driven by DC motor through chain and sprocket transmission system.
- It is equipped with 750 watts motor powered with lithium ion battery which is charged by using two solar power panels of 150 watts power each.
- LED lights for night time selling and Digital balance for weighing the produce
- **Capacity : 200 kg fruits and vegetables can be kept in 20 nos. of plastic crates**

Current Location – State Agricultural Information Data Centre, Nandanam, Chennai – 600 035
Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
38	ss	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,50,000/-	50%	Rs.1,20,000/-	40%

29. Cattle Dung Collector



- Battery: Rechargeable 24 V Lithium Phosphate (LiPo) battery.
- Motor: 24V DC with 14 Ah motor.
- The conveyor blades are made of SS304 grade stainless steel, having six conveyor blades, each with a width of 15 cm
- **Capacity to handle 40 to 70 cows waste per hour.**

**Manufacturer : M/s.Kovai Classic Industries,
Coimbatore (Tamil Nadu)**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
39	xx	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.20,000/-	50%	Rs.16,000/-	40%

30. Self Propelled high ground clearance sprayers (Boom type)



- Power source – 7 hp, 4 stroke Petrol engine
- Engine Rpm – 3600 rpm
- Tank Capacity - 100 Litres
- Type of pump – Horizontal Triple Pump (HTP)
- Flow – 17 to 22 Litres per minute
- No. of Nozzles – 8 Nos.
- Material of the nozzle - Plastic
- Type of nozzle - Flat fan type
- Chassis height from the ground – 90 cm
- Wheel Track – 70 cm to 120 cm
- Gear Shift – 2 Forward, 1 Reverse / Self propelled
- Weight – 120 Kg
- Working width / spray Width – 4100 mm/4600 mm

**Dealer– M/s.Arasan Agro Service in Thalaivasal, Salem District (Tamil Nadu),
Contact – Thiru. Rajesh, 80151 08600**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
40	xvii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.4,00,000/-	50%	Rs.3,20,000/-	40%

31. Digital Soil Moisture indicator (DSMS) (GSM Module)



- Developed by ICAR, Sugarcane Breeding Institute (SBI), Coimbatore
- Operating Voltage: 3.7 V/2200 x 2 mAh
- Maximum Current: 150 mA
- Resolution: 0.1%
- Operating Temperature: -10° C to + 60° C
- Relative Range: 0 to 100% Available Soil Moisture (ASM)
- Accuracy: +/- 10% Available Soil Moisture (ASM)
- Probe output: Analog to Digital
- Electrical Connector Charging: 5 Volt / 500 mA
- Sensing Element: Stainless Steel Rod 304 grade to be inserted up to 15 to 20 cm depth
- Range: 5 to 40% VWC (volumetric water content)

Current Location – ICAR, Sugarcane Breeding Institute (SBI), Coimbatore (Tamil Nadu)

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
41	iv	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.4,500/-	50%	Rs.3,600/-	40%

32a.Multi Utility Machine with Drone Carrier



Manufacturer – M/s.Trishul Tractors Pvt Ltd, Gujarat, Contact – Mr.Harish Patel, 98792 25000

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,56,000/-	50%	Rs.1,25,000/-	40%

32b.Multi Utility Machine with Drone Carrier



Manufacturer – M/s.D.K.Diesels Pvt Ltd., Gujarat, Contact – Mr.Dheeraj, 92271 59911
Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,56,000/-	50%	Rs.1,25,000/-	40%

33.Millet Popping Machine



- Power Source - 5 kW (electrical heater and blower)
- Mode of operation - Continuous type
- Floor area - 1000 x 970 mm
- Cost of Operation - Rs.40 to 50/per kg of grain
- Financial benefit to farmers / user as compared to existing practices –
 - Savings in cost is > 70%
 - Saving in labour is > 70 %
- Efficiency - 60 to 70% popping recovery for Sorghum and Amaranthus
- **Capacity - 1.5 to 2 kg / hour**

Current location – ICAR, CIAE – Regional Centre, Coimbatore (Tamil Nadu)

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
36	k	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.78,000/-	50%	Rs.62,400/-	40%

34.Multifeed Banana Fibre Extraction Equipment



- **Prime mover:** 2 electric motors of 2 hp (to operate the beater roller) and 1 hp (to operate conveyor belt)
- **Input capacity (Pseudostem sheath), kg/hour:** 120 to 130 kg/hour
- **Output Capacity (dried fibre) : 1.75 to 1.90 kg/hour**

Current Location – ICAR, CIAE – Regional Centre Coimbatore

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
38	oo	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,75,000/-	50%	Rs.1,40,000/-	40%

35.Electric Tiller / Electric Weeder



➤ **Battery unit**

Rechargeable lithium-ion battery

Voltage: 36 V, 15 Ah

➤ **Electric motor**

Motor: Brushless (BLDC) DC Motor

➤ **Handle and control panel**

Ergonomically designed handle with grip

➤ **Rotary Blades/Tynes**

Made of Boron steel

Weeder tilling blade width - 12 cm

➤ **Field Capacity: 0.30 acre in one hour**

**Manufacturer - M/s.Data Corp, Coimbatore
(Tamil Nadu)**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xx	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.63,000/-	50%	Rs.50,400/-	40%

36. Self Propelled 4 wheel Tea Leaf Harvester



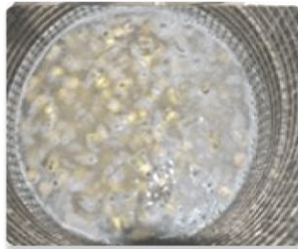
- Wheel Base - 1200 mm
- Height - 2400 mm
- Width - 1500 mm
- Forward Slope upto 30°
- Sideward Slope upto 30°
- Navigation - Remote control (Joystick Operated)
- Battery Duration - 6 Hours
- Turning radius - Zero metre
- **Area coverage/Hour – 1 Acre/hour**

Manufacturer– M/s.Surinova Robotics and Automation solution provider, Chennai
Contact – Ms. Mercy, 88256 42906

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.15,00,000/-	50%	Rs.12,00,000/-	40%

37. Power Operated Sugarcane Sett Treatment Device



- Three major parts namely Vacuum chamber, Separator and Vacuum pump.
- The Vacuum chamber is fitted over Mild Steel frame and has handle, vacuum chamber lid, locks, Vacuum gauge, non-returning valve, relief valve, drain valve and two stainless steel baskets.
- Vacuum level : 150 to 200 mmHg
- Duration Vacuum buildup - 5 min
Retention -15 min;
Air release -5 to 10 min
- **Capacity 30 to 120 Litres**

Developed by ICAR - Sugarcane Breeding Institute (SBI), Coimbatore (Tamil Nadu)

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
40	xxiii	Max. Permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.30,000/-	50%	Rs.24,000/-	40%

38. Self propelled Electric Agricultural Tool Bar



- Dimension LxWxH:2440x965x1200mm
- Ground Clearance: 195 mm
- Motor: 1200 W continuous/2500 W peak
- Battery: 5 kW
- Weight: 280 kg
- Lift Mechanism: Electro-Hydraulic lift
- Gears: 2 Forward and 2 Reverse
- Brake Type: Hydraulic Disc Brake
- **Operating Range for a single charge: 3.5 hrs to 14 hrs (depending on operation)**

**Manufacturer– M/s.INAV Agro Mech Pvt Ltd, Hyderabad,
Contact – Thiru.Jaganath Balaji, 95733 11365**

Subsidy

SMAM Guidelines		For SC, ST, Small & Marginal farmers, Women beneficiary		For other beneficiary	
Page No.	Serial No.				
25	xiv	Max. permissible subsidy	Pattern of assistance	Max. Permissible subsidy	Pattern of assistance
		Rs.1,75,000/-	50%	Rs.1,40,000/-	40%

**Machinery Demonstrated by AED to
be fabricated without subsidy**

39. Power Operated Wood Cutting Machine



- Hp of the machine - 2 hp
- Gear box type - worm gear
- Rpm of motor -1425 rpm
- Rated output - 16 rpm
- Weight of machine - 92 kg
- Length – 104 cm
- Breadth – 78 cm
- Height – 127 cm
- **Number of cutting per hour - 960 cuttings per hour**

Current Location – Government Tractor Workshop, AED, Madurai (Tamil Nadu)

Cost : Rs.65,000/-

40.Tractor Operated Back hoe Loader



- Bucket size is 3 feet X 2 feet X 2 feet
- Tipping of backhoe bucket is done by a manual lever thereby unloading of bucket happens by spring action.
- Maximum lift of the backhoe bucket is 7.5 feet from ground level.
- Drive type - Tractor Hydraulic power
- Material used – Mild Steel

Current Location – State Agricultural Machinery Information Data Centre, Nandanam, Chennai – 600 035

Cost : Rs.89,000/-

41.Tractor operated Reversible Leveler



- Size of Main Frame - 40" x 24" x 24"
- Size of piston - 40 mm
- Length of piston - 540 mm
- Cylinder size – Outer 95 mm, Inner 80 mm
- Capacity of Hydraulic cylinder: 8 bar to 10 bar
- Lifting capacity – 1 ton to 2 ton
- Size of leveller - 2.5' X 6.5'
- Thickness of leveller – 10 mm
- Required Tractor HP - Above 50 hp
- Operating RPM - 1000-1200
- **Field Capacity : 0.50 acre / hour**

Current Location - State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Cost : Rs.56,000/-

42.Manual Harvesting tool Cotton Stalk uprooter



Suitable for uprooting Cotton stalks efficiently after harvesting of Cotton bolls

- Weight: 7.5 kg
- Material: Mild steel (painted with anti-rust coating)
- Operation: Lever based manual mechanism
- Fixing type: Bolt and Nut
- Uprooting Capacity : 120 plants per hour (approximately)**

Current Location - State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Cost : Rs.2000/-

43.Manual Harvesting tool (Tapioca Tuber Puller)



Tool is used to harvest Tapioca tubers manually without damaging the Tubers.

This tool consists of

- Mild steel iron pipe handle, Stem Grip Jaws, Spring, Mild steel Frame welded to iron square pipe

Working principle

- The operator grips the bottom portion of the plant stem with grip jaws firmly. The grip action enables the operator apply lever arm principle to lift the tapioca tubers fully without any damage.
- **Harvesting Capacity :100 plants per hour (approximately)**

Current Location - State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Cost : Rs.3000/-

44.Manually Operated Dust Collector



- Manually Operated push type equipment
- Mechanism : V-belt pulley mechanism
- Total width of Operation – 3 feet
- It is useful for cleaning leaves and other plastic bottles thrown in the parks and Garden.

Current Location – Government Tractor Workshop, Vellore (Tamil Nadu)

Cost : Rs.11,000/-

45.Tractor Rear mounted Lifting Fork



➤ Material Collection

The operator manoeuvres the tractor to position the grabber over the target material (eg:-dried palm fronds)

➤ Hydraulic Operations

❖ Opening/Closing: Controlled via hydraulic levers, ensuring precision while grabbing materials.

❖ Lifting and Lowering: The hydraulic system lifts or lowers the grabber, to adjust the height based on the material's location.

➤ Power Source: Hydraulic power

➤ **Lifting Capacity : upto 500 kg**

Current Location - State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Cost : Rs.75,000/-

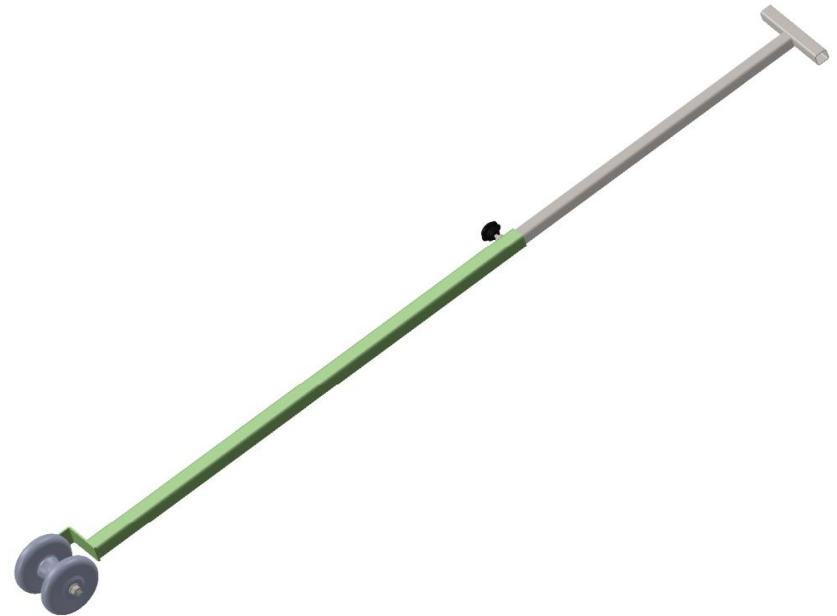
46. Drip Lateral Lifting Device



- Lateral lifting device is made of mild steel half inch long pipe and 3/4 inch long pipe of 2 mm thickness and 60 cm length each.
- Half inch long pipe is inserted into 3/4 inch long pipe and the lifting roller is made up of high density poly ethylene (HDPE) material.
- **Lateral lifting capacity :**
1000 to 1500 meters per hour

**Current Location - State Agricultural
Machinery Information Data Centre,
Nandanam, Chennai - 600 035**

Cost : Rs.300/-



47. Juliflora Tree Lifting Device



- The growth of Juliflora tree is stopped by uprooting it, since it removes the deep roots also.
- The tree is completely removed which is not achieved when cut down by humans.
- It is a low cost tree uprooting device. It is expensive to buy separate cutting tools for cutting Juliflora tree.
- By removing the tree from the agricultural lands thereby avoiding the sucking of water from ground through deeper root penetration and finally achieving the water management.
- It does not require a separate manpower.
- **Tree uprooting capacity : 20 to 25 trees per hour (smaller trees)**

Current Location –State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Cost : Rs.50,000/-

48.Hand operated Seedlings Planter



- A typical hand-operated seedling planter consists of various components viz., handle, seedling chute, pointed tip, and optional closing mechanism.
- Speeds up the planting process, especially in small-scale operations.
- Reduces the physical strain.
- Cheaper and easier to maintain than mechanized planters.
- Suitable for various seedlings, including vegetables, flowers and small tree saplings
- **Field capacity : 60 to 80 plants per hour (approximately)**

Current Location - State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Cost : Rs.500/-

49. Pulling type Manual Weeder



The pulling type manual weeder is operated by just pulling it over the soil surface.
The blade or tyne penetrate the soil, with minimal soil disturbance weeds are cut or uprooted.

Constructional features

- **Handle:** A long rod for holding and operating the tool.
- **Frame:** A metallic structure that supports other components.
- **Blades:** Sharp edges used for cutting and uprooting weeds.
- **Wheel:** Helps in easy movement and operation.
- **Fasteners:** Bolts and nuts that hold the components together.

Current Location –State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Cost : Rs.4,000/-

50.Vertical Garden Structure



Technical Specifications:

- Frame material - Mild steel
- Diameter - 1 metre
- Total height - 1.95 metre
- Number of tiers - 4 tier system
- Plant containers - Plastic pots (Commercially available in many shapes, colour and Models)
- Irrigation system - Drip irrigation
- Water tank capacity - 20 Litres (plastic tank)
- Mobility - 4 Caster wheels at base
- Approximate weight - 50 kg (Including pots)
- Protective cover - Sunshade / Umbrella type cover



**Current Location –State Agricultural Machinery
Information Data Centre, Nandanam,
Chennai - 600 035**

Cost - Rs.25,000/-

51.Mobile Solar Dryer



Technical Specification:

- Polycarbonate Sheet: 6 mm thick UV Protected Polycarbonate Sheet
- Average Temperature: 55°C
- Air Circulation: 24volt Dc Axial Fan – 4 Nos.
- Solar PV Module: 100 watts -12 volt -1 No.
- Structure pipe: 1 1/2"X1 1/2"x2 mm thick GI Pipe
- Polycarbonate fixing: 1.6 mm thick aluminium extrusion
- Leak Arresting: Silicon Sealant
- Control Panel Board/Temperature & Humidity controller with sensor-1 Set
- Base sheet: 24 Standard Wire Gauge (SWG) GI Sheet
- Insulation: 48 kg/cubic metre density 50 mm thick Rock wool slab
- **Total Dryer Area: 60 square feet (10'x6')**

**Current Location –State Agricultural Machinery Information Data Centre, Nandanam
Chennai – 600 035**

Total cost including Trailer: Rs.3,28,000/-

52. Mobile Solar powered Pumpset



Parameter	Specification
Solar panels	6 Nos × 550 Wp each
Total power output	3300 Wp
Surface pump and Submersible pump	3 HP Monoblock Pump and 3 HP Open Well Submersible Pump
Solar controller	Integrated controller for power regulation and protection
Solar tracking	Manual adjustment mechanism for optimal sun orientation
Suction hose diameter	2 inch

Parameter	Specification
Delivery hose diameter	1.5 inch
Panel assembly (Working width) (in extended position)	22 feet
Panel assembly (Collapsed width)	8 feet
Overall length of mobile unit	15 feet
Total weight	870 kg (including solar panels and pumpset)

Current Location –State Agricultural Machinery Information Data Centre, Nandanam, Chennai - 600 035

Cost :Rs.3,75,000/-

53. Power Tiller operated Disc Puddler



- Consists of Six discs, each with three different diameters
- Discs are Plain and mounted at an adjustable disc angle of 25° to 30°. The disc tilt is fixed.
- Total weight : 150 kg.
- Length – 175 cm and width- 244 cm
- Triangular shape, with a rear width of 244 cm and a side length of 153 cm on both the left and right sides.
- Frame with 2" × 2" square mild steel pipe
- **Field capacity : 0.5 acre / hour**

**Current Location –State Agricultural Machinery
Information Data Centre, Nandanam,
Chennai - 600 035**

Cost : Rs.75,000/-

54. Power Tiller operated one side Ridger



- Type: One Side Scoop ridger Attachment
- Power Source: Power Tiller
- Working Depth: Adjustable
- Ridge Height: 0.5 metre
- Material: Mild Steel
- Frame Size (LXWXT): 600x450x150 mm
- Mounting: with Bolt and nuts to Power tiller frame
- Operation: Manual Control through tiller handle adjustment
- Total weight : 27 kg
- **Field Capacity : 400 m length of ridge can be formed per hour.**



**Current Location –State Agricultural Machinery
Information Data Centre, Nandanam,
Chennai - 600 035**

One side Ridger plate – Cost : Rs.4500/-

55. Tractor Operated Hydraulic Lifting Device



- Power Source: Tractor hydraulic system
- Hydraulic System: Double-acting hydraulic cylinder
- Weight: 70 kg
- Maximum Extension: Upto 600 mm
- Operation: Hydraulic lifting control
- Hook Rating: 2 tonnes
- **Lifting Capacity: 750 kg**

**Current Location – State Agricultural Machinery Information Data Centre, Nandanam,
Chennai – 600 035**

Cost : Rs. 33,000/-

56. Manually operated Sugarcane Sett Cutter



Major components:

- Fixed cutting jaws.
- Vertical cutting blades
- Handle with Hinge mechanism
- Frame structure

Cutting Mechanism :

- Four cutting Jaws are rigidly fixed at bottom frame and two Cutting blades are mounted at other end of the handle.
- The bottom frame and handle are hinged together.

Blade Material : Mild Steel

Cutting Capacity:

300 to 350 Setts per hour.



Current Location – State Agricultural Machinery Information Data Centre, Nandanam, Chennai – 600 035

Cost : Rs.10,500/-

57. Portable and Foldable Poultry Shed



Description		Dimension / Quantity
Length	:	9.5 feet
Breadth	:	4 feet
Height	:	3 feet
Total weight	:	53 kg
No of compartments	:	2
Assembly time	:	15 minutes
Accommodation for	:	30 to 35 poultry



**Current Location – State
Agricultural Machinery Information
Data Centre, Nandanam,
Chennai – 600 035**

Cost : Rs.15,000/-

58. Ridger Plate attachment to Power Tiller



- Pulverisation and ridge formation at one pass
- Easily attachable



**Current Location –
State Agricultural
Machinery Information
Data Centre, Nandanam,
Chennai – 600 035**

Cost – Rs.3,000/-

Thank you