

Farm Machineries Specification

Office: Agriculture Knowledge Centre, Kanchanpur

Project: Procurements of Farm machineries for Different Subsidy Program

S. N	Name of Machines/ Equipment	Specification Required	Specification Offered	Remarks
1	Cage Wheel	Anti-skid / Cage wheel set for Power tiller (11.03-16.18 Kw) with replicable fixing system suitable for puddling of soil		
2	Reaper Power Tiller Drawn	Power tiller mounted Reaper with Cutting width 1200 mm, cutting 4 lines and Placing type - Side wise & banded. Matched Power 12-22 HP PT. supply with all set of fixing frame, cable and nut bolts and driving V belts.		
3	Seed Drill Power Tiller Drawn	Power tiller drawn multi crop Seed cum fertilizer Drill, covering up to 4 feet seeding width having minimum 4 numbers of tines with adjustable row spacing and seeding depth, Seed & fertilizer capacity more than 20 Kg.		
4	Paddy Thresher (Tractor Drawn)	Axial flow type with 30 inch or more threshing drum, feeding tray Chute type, Fitted with Winnowing and auxiliary Blowers and Oscillating Sieves for cleaning purpose. Threshing Capacity 2000 - 3000 Kg/hr. High cleaning efficiency. the complete thresher and accessories are fitted in main base frame with set of pneumatic wheel system. Power Required 35 HP and above		
5	Wheat Thresher (Tractor Drawn)	Axial flow type with 30 inch or more threshing drum, feeding tray Chute type, Fitted with Winnowing and auxiliary Blowers and Oscillating Sieves for cleaning purpose. Threshing Capacity 2000 - 3000 Kg/hr. High cleaning efficiency. the complete thresher and accessories are fitted in main base frame with set of pneumatic wheel system. Power Required 35 HP and above		
6	Rotavator(Tractor Drawn)	Tractor drawn Rotavator, Multi speed and side transmission Gear box, Number of Blades 42-54, Overall working width 6-7 feet, Matching Tractor Power is 45-55 HP		
7	Disk Harrow (Tractor Drawn)	Disk Harrow offset type Disc harrow, having minimum 7 Nos of disk blade per gang, each gang having 2 Nos of standard bearing hubs, Blade material-high carbon steel, 3-point hitching system, matching tractor power 40-55 HP.		
8	Seed cum Fertilizer Drill (Tractor Drawn)	Tractor drawn multi crop Seed cum fertilizer Drill, covering up to 6 feet seeding width having minimum 9 numbers of tines with adjustable row spacing and seeding depth, Seed & fertilizer capacity more than 60 Kg.		
9	Winnowing Fan	A manual type winnowing fan with at least 4 blade in a fan suitable for cleaning the cereals and grain with proper gear arrangement on stand frame.		
10	Potato Digger Power Tiller Drawn	Power tiller drawn potato planter with 12-22 hp power tiller, Gear driven, 1 row potato harvester, working depth 130-200 mm, Working capacity 0.4 ha/hrs		
11	Electric Corn Thresher	A Single or double tube corn Thresher with minimum capacity 500kg/hr suitable to separate grain from bunch, Working with electric motor with power at least 0.5 hp motor frame with all necessary accessories.		
12	Chaff Cutter	Suitable for green and dry grasses, straw, corn stalk, 2-3 hp single phase motor, capacity of at least 300 kg/hr, minimum 2 blades, with MS frame and housing		
13	Knapsack Power Sprayer	4 stroke, petrol engine, 0.75-1 Kw power, chemical tank capacity at least 20L, fuel tank capacity at least 600 ml, Suction volume at least 7 ltr/min		

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14	Ridger	Tractor drawn ridger, having 3 number of furrow bases of size 11x22 cm, fitted on a heavy-duty rigid type iron frame, with adjustable row spacing and shape of ridges facility. The ridger be suitable for making deep furrow openings and ridges prior to planting/sowing operations. Matching tractor power required 40-55 hp.		
15	Pit Digger/Earth Auger	Petrol engine, Single cylinder 2/4 stroke, capacity 1-3 hp, 6"-8" MS drill bit, fuel tank capacity not less than 1 litre		
16	Combined Rice Mill	Single Phase, 220V, 50 Hz, Motor Power 1-3 HP, Capacity 200-300 kg/hr, Construction material Mild Steel/Stainless Steel		
17	Power Tiller	Power tiller of rated out put 11.03-16.18 Kw (± 0.5) capacity suitable for multipurpose farm work, having 4 stroke diesel engine and Radiator/hopper Colling system. Gear and chain system power transmission, 1- Reverse, 3- Forward (both high low) numbers of gears. minimum ground clearance 182 mm. A set of rotary cultivators attached having minimum of 26 blades and covering minimum of (800-1000)mm tilling width, 1-year service warranty is required. Verified Engine test report should be provided.		
18	Mini Tiller	Mini tiller of rated out put 3.6 Kw to 6.5 Kw (± 0.3) capacity, single Cylinder, 4 stroke petrol/diesel engine, Gear system power transmission, 1- Reverse, 2-Forward numbers of gears. Fuel tank capacity 3.5 liters or more. Cultivation width at least 28 inches. A set of tilling blades clutch wire should be added as spare parts. minimum of 1 years' service warranty is required. Verified Engine test report should be provided.		
19	Cultivator	Tractor drawn spring loaded cultivator having heavy duty iron frame and shovels, standard 3-point linkage system, minimum 9 tynes with at least 60 inch working width, Matched power tractor from 40 to 55HP		
20	Lazer Land Leveller	Tractor operated Semi mounted Laser land Lever suitable to precision levelling of land, operated by 45-60 HP tractor, having gear powered mast system, standard laser transmitter working range at least 900m, laser level accuracy of 1mm at 30m and 360° receiver system. In addition, standard bucket scraper of thickness 8-10mm, width 75-85 inches, hydraulic capacity of 4 ton or above and at least 2 wheel system all complete set as per requirement.		
21	Brush Cutter	back pack/side pack, petrol engine, 2/4 stroke, not less than 1.3kW, 40T-80T blade		
22	Push Seeder	Ergonomic handle for easy pushing, a roller attached for covering of seed, seed and fertilizer capacity 2.5-4 Kg, spacing of seed: 10cm-35 cm (adjustable), number of seeding hole 1-3		
23	Sugarcane leaf trash Shedder	Material of Construction: MS with paint coated preventing from corrosion, working width: 4-7 feet, blades: min 140 blades, working principle: vacuum for suction of sugarcane leaf & cutter bar assembly for shredding, Power: PTO powered with 540/1000 rpm, Matched tractor power: 45 HP and above		

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24	Sugarcane Stubble shaver/ Rattoon Manager	Material of Construction: MS with paint coated preventing from corrosion, working width: 4-6 feet, woking depth: uniform cutting below ground 5-10 cm, Power: PTO powered with 540/1000 rpm, Matched power: 25 Hp and above, Additional feature: ridger/cultivator/ fertilizer box attached (preferred)		
25	Reaper Tractor Drawn	Power requirement : 35-55 Hp, Conveyer Belt: three row conveyor,rubber belt, cutting unit type: Cutter bar with serrated V shaped blades, Width of Cut: 1.5-2.0 m, Place of attachment: front of tractor		

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