

## 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 <b>rated out put 11.03-16.18 Kw</b> ( $\pm 0.5$ ) 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 <b>rated out put 3.6 Kw to 6.5 Kw</b> ( $\pm 0.3$ ) 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 Laveller          | Tractor operated Semi mounted Leser land Lever suitable to precision levelling of land, operated by 45-60 HP tractor, having gear powered mast system, standard Leser 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/<br>Rattoon Manager | Material of Construction: MS with paint coated preventing from corrosion, working width: 4-6 feet, working 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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