

Sudurpashchim Province Government
Ministry of Land Management, Agriculture and Cooperative
Directorate of Agriculture Development
Dipayal, Doti
Specification of Agriculture Machineries and Equipment

FY: 2080/081

S.N.	Name of Machines /Equipment	Specification Required	Specification Offered
1	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.	
2	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.	
3	Fruits and Vegetable Electric Dryer	Size of body: not less than 1800×750×1200 mm, Material of tray: SS-304 Grade Stainless Steel, Tray size not less than 400×400mm size with perforated hole for air flow, No. of tray: not less than 6 tray, Power: single phase A.C. 50 Hz/230V±10V, 3Kw to 4.5Kw, Temperature: 30-70 degree celsius, Control Panel: Proportional Integral Derivative (PID) for regulating temperature, flow, pressure etc. Solid State Relay (SSR) Module Drive for controlling smaller AC loads	
4	Self Powered mini Thresher	Suitable for the threshing of wheat/ barley/ grams (chick-peas)/ soybean/ millets/ oats/ maize/ all type of peas and pulses, etc. Engine/motor operated, 5-10 HP power (fuel type) or 2-5 hp electric motor, Axial flow type, feeding tray Chute type, Threshing Capacity 150-350Kg/hr. High cleaning efficiency. the complete thresher and accessories are fitted in main base frame with set of pneumatic wheel system.	
5	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 all necessary accessories.	
6	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	
7	Sugarcane Juice Extractor	Manual/Engine/Motor type, 2-3 roller, 1-2 HP motor/2-5 HP diesel engine, Gear Type Power Transmission	
8	Combined Rice Mill	Single Phase, 220V, 50 Hz, Motor Power 1-3 HP, Capacity 200-300 kg/hr, Construction material Mild Steel/Stainless Steel	
9	Cage wheel	Anti-skid / Cage wheel set for Power tiller (11.03-16.18 Kw) with replicable fixing system suitable for puddling of soil	
10	Antiskid Wheel	A set of antiskid for Minitiller (3.6-6.5 Kw) with replicable fixing system suitable for puddling of soil	
11	Juice Extractor(चुक पेल्ले मेसिन)	Frame structure of Mild Steel or Stainless Steel, fitted with 0.5-1 HP single phase AC motor, cylinder of Stainless Steel food grade with wooden or metallic shaft attached with nylon brush for extracting juice rotating as slow as possible for efficient juice extracting.	
12	Mini Disc Mill	Suitable for wheat or any grains, Overall dimension: not less than 560*300*600 mm (LxWxH), Capacity: 40-60 Kg/hr, Mesh diameter: 0.6-1.2 mm, Outer dia. Of rotator: 150mm, No. of oblate: 3 pieces, No. of Knuckles: 2-3 Pieces, Rotational speed of main shaft: 9000 rpm, Motor Power: 1.1Kw/1.5 Hp, single phase, 50 Hz, Motor speed: 2800 Rpm	
13	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.	

Note:- Manufacture company or suppliers strictly provided engine rated power of power tiller and mini tiller in "**Kw**" this should be mentioned in both catalogue and Instruments otherwise these company and suppliers or materials should be disqualified or rejected.

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