



नेपाल सरकार

कृषि तथा पशुपन्छी विकास मन्त्रालय

प्रधानमन्त्री कृषि आधुनिकीकरण परियोजना

परियोजना कार्यान्वयन एकाई

चौतारा, सिन्धुपाल्चोक



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FY:078/79		Date: 2079.01.05	
Technical Specification of Agri Equipment			
Office: Prime Minister Agriculture Modernization Project, Project implementation unit Chautara, Sindhupalchowk			
S.N	Particulars	Specification	Remarks
1	Mini Tiller	Mini tiller of 5 - 9 HP capacity, having 300- 400 cc Single Cylinder, 4 stoke/ diesel or petrol engine, Gear system power transmission, 1- Reverse, 2-Forward (both high low) numbers of gears. Fuel tank capacity 4 L or more. Cultivation width should be up to 32 inches. A set of tilling blades clutch wire should be added as spare parts. Minimum of 1 years' service warranty is required.	Numbers of all farm machineries depends upon demand of farmers (not necessary to supply all kinds of farm machineries, it is determined by the demand of farmers
2	Power Tiller	Power tiller of 18 - 22 hp capacity suitable for multipurpose farm work, having 4 stroke diesel engine and radiator/hopper Cooling system. Gear and chain system power transmission, 1- reverse, 3-forward (both high low) numbers of gears. Minimum ground clearance 185 mm. A set of rotary cultivators attached having minimum of 24 blades and covering minimum of 800 -900 mm tilling width. 1-year service warranty is required.	
3	Sprayer	Motor of 80 and 100 psi auto cut off with Lance steel extend-able with brass connector Plastic material high quality plastic material with heavy duty poly piston. on-off brass lock with one or two nozzles and Wide carry straps for easier and more comfortable carrying of not less than 16 L tank Capacity	
4	Potato Digger	Power tiller drawn potato harvester with 12-22 hp power tiller, gear driven 1 rows potato harvester, working depth 130-200 mm, working capacity 0.4 ha/hrs.	
5	Paddy Thresher	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	Portable Multi crop or combine Thresher	Engine operated in 5-7 HP with moving Sieve, one blower for wind winnowing and output 100 to 200 kg/hr	
7	Power Weeder	A power weeder suitable to remove the weed between crop row, with 1.5 kw 4 stock petrol engine, minimum working width 300 mm	
8	Corn Seller/ Maize Dehusker	Electric Motor Operated corn seller with single or double tube made of stainless steel with high threshing ratio and low crushing ration. Clean separation with non-slip base for safety.	
9	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.	
10	Tractor Trolley	Hilly type trolley 4-ton capacity, single acting hydraulic cylinder along with high-pressure pipe with adoptions fitted at end. Length – 3000 mm min, width – 1800 mm min, height -500 mm min mild steel sheet 3.40 mm (min) all side open type on hinges except front one. And mild steel sheet 6 mm (min) in floor painted and all the necessary assembly of chassis tire and wheel.	
11	Seed Grader Machine	Electric motor Operated multi crop seed grader machine of capacity 1-2 TPH. Sieves are in GI Steel material with easy replaceable. More than two screen and Sieves/Screen cleaning through rubber balls	

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S.N	Particulars	Specification
12	Disc Mill	Disc mill with milling capacity 200 kg/hrs. Suitable for grinding maize, wheat, rice and pulses, with adjustable disk gap and disk speed. Mild steel hopper attached working with 2-3 hp single phase electric motor
13	Combine Disc Mill	Paddy cum grain grinding with milling capacity 200 kg/hrs. Suitable for grinding maize, wheat, rice and pulses, with adjustable disk gap and disk speed. Mild steel hopper attached working with 2-3 hp single phase electric motor
14	Vaccum Suction type Disc Mill (Flour Mill)	Disc mill with milling capacity 320-420 kg/hrs. Produce dry porridge flour from Beans, Wheat, Starch, and Rice flour, Corn, Sorghum, Rice and Biomass etc. Mild steel hopper attached working with 2-3 hp single phase electric motor
15	Pallet Machine (50kg)	Pallet making machine capacity 50 kg per hour, Mild steel feeding Hooper, 1 hp single motor.
16	Pallet Machine (500kg)	Automatic pallet making machine, capacity 500 kg per hour, mild steel feeding hopper, hammering blade place made by mild steel materials. Blower pipe line and cloth. Long time working capacity no maintenance, two bearing with 15 hp maximum, 3 phase motor, & vibrate control channel and rubber pad, pulley, belt, with all complete standard accessories.
17	Hammer Mill	Hammer Mill with milling capacity 300-500 kg /hrs. giving better fineness to Various types of materials, such as maize, oil cake, small grains, cereals and chemicals etc with the function of grinding, grading and transporting to bagging cyclone
18	Chaff Cutter	Automatic chaff cutter suitable for both green and dry hard and soft grass and bush, working capacity 400-600 kg/hrs., with supply of single phase 3 hp electric motor
19	Deep Freezer	Deep freezer system with temperature control/display, temperature range: 0° C to - 40° C, Capacity cu ft/liters: 180 or more, Max. shelf Weight: 50 kg or more, no. of doors 2 and Voltage: 230 V, 50/60 Hz.
20	Milk Chilling Vat	Elliptical/vertical cylinder type made of stainless stain 304 milk chilling vat with capacity of 1000 liter with 10% extra volume for tank for milk collection and storage at 30°c ~4°c (less than 3 hours). Necessary refrigerator system. 1 isolation material: pu foam 2. Cooling system Compressor: Tecumseh, Emerson, Refrigerant: r404a or r22 Compressor: 3 rt compressors a. Temperature meter: digital type fully automatic screen control b. Refrigerator control system set and the milk temperature adjustment. c. Adjusts the agitator for fully mixing up.
21	Paneer Press Machine	Paneer Press machine made of stainless steel which is Safe and Secure and Easy to handle and Robust and Portable with 5-10 kg capacity taking max 10 min to compress
22	Cream Separator machine	Cream separator machine with aluminum alloy bowl of at least 365 mm diameters. Cream/skimmed milk volume proportion adjustment range from 1:4~1:10. Milk bowl capacity with 12 L/3 Gal operated from single phase.
23	Commercial Curd making machine	90-100 liters capacity it makes curd from soya and dairy milk. Single phase power requirement which is automatic operated use for home and commercial.

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S.N	Particulars	Specification
24	Khuwa Machine	10-60 liters capacity it prepares khoa of 10-30 liter of milk in around 45-55 minutes and consumes about .8-2.5kg. Of gas, motor -.25-1 hp. volume of container 55-225 liter with stainless steel side cover.
25	Milk Analyzer	Milk analyzer machine with milk strainer, suitable to measure to analysis the milk of temperature 5 to 35° c, 2-line, 16-character 10 mm character high red led display, easy cleaning and calibration. Operating voltage 220 v 50 hz. Or 12 v dc. Sensor ability fat from 0.5% to 12% with accuracy +/- 0.1%, solid not fat (snf) from 6% to 12% with accuracy +/- 0.2% added water to milk from 0% to 60% with accuracy +/- 5% measuring cycle under 45 sec.
26	Portable cold store/room/cool boot	2 to 20 Mt capacity cold room allow a standard window air conditioner to cool a room to 34F using 75 mm puff panel for construction with cool boot controller operated from single/three phase line.

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2075/14
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