

कृषि विकास कार्यालय ललितपुर
कृषि यन्त्र औजार उपकरणहरुको दरभाउपत्र प्रस्ताव फारम

S. N	Name of the Farm Implements with Required Technical Specifications		Supplier's specification
1	Minitiller (Petrol) Brand/model General Engine Starting type Transmission system Displacement(ml(cu.in)) Fuel tank capacity Blades Tilling Depth Tilling width Warranty	ISO Certified Mini tiller. Model/Engine model number: General purpose Mini tiller for dry and wet tillage, with standard design having gross vehicle weight not less than 75 kg Single cylinder, Four stroke, incline/vertical Forced air cooled system. Oil batch type filler. Petrol engine , Maximum power not less than 4KW at rated speed . Recoil/ Electrical starter Double Clutch system ,Gear drive(1- Reverse, 2- Forward) both high and low) number of gears. not less than 208CC not less than 3 L minimum 24 100mm or above 750mm or above Minimum 1 year warranty should be provided	
2.	Minitiller (Diesel) Brand/model General Engine Starting type Transmission system Tilling Depth Tilling width Fuel tank capacity Blades Tyre Colour Warranty	ISO Certified Mini tiller, Model/Engine model number: General purpose Mini tiller for dry and wet tillage, with standard design having gross vehicle weight not less than 120kg Single cylinder, Four stroke, incline/vertical Forced air cooled system. Oil batch type filler. Diesel Engine . Maximum power not less than 4KW at rated speed . Recoil/ Electrical starter Double clutch type. Gear drive(1- Reverse, 2- Forward) both high and low) number of gears. 100mm or above 750mm or above minimum 3.5 litres minimum 32 pieces Pneumatic tubeless tyre Standard Minimum 1 year warranty should be provided	

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Paddy Thresher			
3.	make, model, brand		Any
	General	It is used for threshing of paddy, maize, wheat, sorghum, barley. Provided at least 3 types of grain sieve.	
	Type	4WD driven	
	Power requirement(hp/kW)	above 40 HP, tractor pto	
	Working efficiency	>-1200kg/hr	
	Threshing efficiency	>-97%	
	Overall grain loss	<-2.5%	
	Broken grain loss	<-0.8%	
	Blown grain loss	<-1.5%	
	Crop feeding	direct hopper type(Feeding chute, manually)	
	Type of cylinder	Spike tooth	
	Cylinder size, tip diameter x length(m m)	approx. 770 x 1500	
	No of sieves	3	
	No. of blower	one/double/tribble	
	No. of spike	around 75	
	Cleaning fan	at least 1 aspiratory fan for grain clean and 1 centrifugal fan for dust clean	
	Weight(approx.)	1450-1550kg	
	Standard accessories	PTO shaft, tool box, greas gun	
	Main shaft diameter	not less than 60mm	
	No. of transmission joint	4	
	Warranty	Minimum 1 year warranty should be provided	
	Combined Mill		
	Make and model	Any	
4.	General	Application in both milling of cereals such as rice, wheat, miller and paddy, Gross wt not less than 85kg.	
	Power Source	not less than 2KW	
	Motor	100% copper	
	voltage and frequency of motor	220volt.50Hz	
	Seive size	at least 100*749mm	
	Seive Diameter	aperture : 1.2	
		Rice mill: at least 80 kg/hr	
		Grain grinder: at least 130kg/hr	
		Grain Grinder-5500rev/min	
	Capacity	40mm	
	Roller Diameter: rice mill	Disc Hammer types	
	Types		

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	accessories	Electric wire along with Suitable MCB with switch	
	Warranty	Minimum 1 year warranty should be provided	
	Corn Sheller		
	Make and model	any	
	Power	at least 0.65 kw	
	Motor	copper Coil 100%	
	Capacity	600-700kg/hr	
	Shaft Speed	1680 r/min	
	Rotor Diameter	around 590mm	
	Tube	Single	
	Warranty	Minimum 1 year warranty should be provided	
	Battery cum Manual Sprayer (2 in 1)		
	tank capacity	At least 16 liter	
	Motor	12V motor powered diaphragm pump of speed 3300rpm, 12V, 8AHr rechargeable, aluminum coated.	
	working pressure	at least 0.4 Mpa	
	Charger input:	100-240V AC, 50Hz,	
	charge output	12V DC 1.5A	
	Spray flow	not less than 2100ml/min,	
	time of full charge	5 to 8hr	
	Gross weight	at least 2.6kg	
	Battery cum Manual Sprayer (2 in 1)		
	tank capacity	at least 16 liter	
	Motor	12V motor powered diaphragm pump of speed 3300rpm, 12V, 8AHr rechargeable, Brass coated	
	working pressure	at least 0.45 Mpa	
	Charger input:	100-240V AC, 50Hz,	
	charge output	13.5-13.8V, 2.40A	
	Spray flow	not less than 2100ml/min,	
	time of full charge	5 to 8hr	
	Gross weight	at least 6.5 kg	
	Battery weight	at least 2.2 kg	
	Petrol Engine Multicrop Thresher		
	Engine	Single cylinder, Four stroke, incline/vertical Forced air cooled system, Oil batch type filler. Diesel Engine. Maximum power not less than 4KW at rated speed, Displacement Not less than 207cc.	
	Rotor Speed	not more than 850RPM	
	Roller Length	approx. 750 mm	
	Rotor Diameter	approx. 340 mm	
	Efficiency	not less than 550 Kg/H	
	Rotor Type	Acute Teeth	
	Gross Weight	approx. 80 Kg	
	Application	Paddy, wheat, and others	

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	Warranty	Minimum 1 year warranty should be provided	
	Disc Mill		
	Make, Model and Brand	any	
	Country of manufacturer	any	
	Motor power	not less than 7.5KW	
	Motor speed	not less than 1450 rpm	
	Productivity (kg/hour)	not less than 450 kg/hr in case of corn	
	Dimension (L x W x H)mm	Around 1050 x 680 x 1325	
	Warranty	Minimum 1 year warranty should be provided	
	Power Tiller		
	Make, Model and Brand	Any	
	Country of manufacturer	Any	
		Single cylinder, 4-stroke diesel engine	
		Direct combustion type	
		Specific fuel consumption around 244 g/kw.h	
		Power output not less than (13.43 Kw)	
		Air cleaner oil bath type	
		Multiple plates, Dry disc	
		Hand operated dry brakes	
		Forward-6, Reverse-2 (With high-low selector lever)	
		Around 900 mm	
		minimum 24	
		minimum 185 mm	
		Water or condense cooled	
		Minimum 15 Liters	
		Combined pressure and splashing type	
		1.3 meter	
		Manual or Electric	
		Minimum 1 year warranty should be provided	
	Diesel Mini Tiller 9 hp category		
	Make & model of machine	ISO certified, Mini tiller model, Engine Model no.	
	Engine	4 stroke, single cylinder, forced air cooled, Diesel engine. power : not less than 9 hp	
	Transmission system	friction multi plate clutch; no. of gear speed: 2 forward & 1 reverse and neutral	
	Model of transmission	Driven by gear system	
	Number of rotor blades	Minimum 32 blades	
	Transportation wheel	Pneumatic tyre	
	Starting method	Manual or recoil or self starting system	
	Starting weight (Kg)	Gross weight not less than 135 kg	
	Width of cut(cm)	100 or above	
	Depth of cut(cm)	10 or above	
	Fuel tank capacity(liter)	minimum 5 litres	
	Warranty	Minimum 1 year warranty should be provided	

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Petrol Mini Tiller 9 hp category	
Make & model of machine	ISO certified, Minitiller model, Engine Model no.
Engine	4 stroke, single cylinder, forced air cooled gasoline engine. power: not less than 9 hp
Transmission system	friction clutch, gear system, no. of gear speed: 2 forward & 1 reverse and neutral
Model of transmission	driven by gear system
number of rotor blades	minimum 32 blades
Transportation wheel	Pneumatic tyre
starting method	manual or recoil starting system
weight (Kg)	with transportation wheel: minimum 100 kg
Width of cut(cm)	100 or above
Depth of cut(cm)	10 or above
Fuel tank capacity(liter)	not less than 5 litres
Warranty	Minimum 1 year warranty should be provided