

बागमती प्रदेश सरकार
कृषि तथा पशुपन्छी विकास मन्त्रालय
कृषि विकास निर्देशनालय
कृषि विकास कार्यालय
काभ्रेपलान्चोक



कृषि यन्त्र, औजार, उपकरण आपूर्ति संबन्धमा
प्रस्ताव दरभाउ फारम

आर्थिक वर्ष : २०८२/८३

१. संस्थाको नाम :

२. संस्थाको ठेगाना :

सम्पर्क व्यक्तिको मोबाईल न. :

ईमेल:

३. आधिकारिक व्यक्तिको नाम:

पद:

ईमेल:

४. संस्था रजिस्ट्रेसन नं.:

५. रजिस्ट्रेसन गर्ने कार्यालय:

६. फर्म दर्ता मिति:

७. PAN/VAT रजिस्ट्रेसन नं. :

८. व्यापारको किसिम/उद्देश्य :

९. उपलब्ध गराउन सक्ने सामग्रीको दरभाउ र अन्य विवरण प्रस्ट खुल्नु पर्नेछ ।

१०. आपूर्तिकर्ताले Supplier's Specification मा मेसिनरी औजारको विवरण अनिवार्य रुपमा भर्नु पर्ने छ ।



Technical Specification of Farm Machinery and Equipments

S.S.N.	Name of Implements With Description	Technical Specification	Mandatory to Supplier's specification (Mandatory to fill up otherwise not consider their)	Price Quoted (Nrs.)		Remarks
				Words	Figure	
1	Diesel Mini Tiller 5.5 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 5.5 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 24 blades.				
	Transportation wheel	Pneumatic tyre				
	Starting method	Manual / Recoil starting system				
	Weight (Kg)	Gross weight not less than 80 kg				
	Width of cut(cm)	75 or above				
2	Diesel Mini Tiller 7 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 7 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				
	weight (Kg)	Gross weight not less than 120 kg				
	Width of cut(cm)	100 or above				
	Fuel tank capacity(liter)					
	minimum 2.5 litres					

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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their bid)	Price Quoted (Nrs.)		Remarks
				Words	Figure	
3	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				
	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				

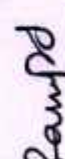
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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their)		Price Quoted (Nrs.)		Remarks
			Words	Figure	Words	Figure	
4	Petrol Mini Tiller 7 hp category						
	Make & model of machine	ISO certified, Mini tiller model, Engine Model no.					
	Engine	4 stroke, single cylinder, forced air cooled, gasoline engine. power : not less than 7 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 24 blades					
	Transportation wheel	Pneumatic tyre					
	Starting method	Manual or recoil or self starting system					
	weight (Kg)	with transportation wheel : minimum 76 kg					
	Width of cut(cm)	75 or above					
5	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					


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				Words	Figure	
6	Self-Propelled Rice Transplanter (Walking Type)					
	Make & model of machine	ISO certified, Rice Transplanter Model, Engine Model no.				
	Engine	4 stroke, 35 cc, 1.6 hp or above,				
	Fuel Consumption	Petrol 1 litre/2 hrs.				
	Number of rows	4 rows				
	Row- row spacing	20 cm				
	Plant to plant spacing	16 cm to 24 cm				
	Seedlings placing depth	2 cm to 5cm				
	Working Area	At least 6 kattha/ hour				
	Machine Size (cm)	107*141*41 or above				
	Machine weight	38 kg or above				
	Tray Size (cm)	20*60 or above				
	Tray weight	0.55 kg or above				
7	Manually Operated Rice Transplanter (Walking Type)					
	Make & model of machine	ISO certified, Rice Transplanter Model				
	Engine	No Engine				
	Fuel Consumption	No. Engine				
	Number of rows	4 rows				
	Row- row spacing	20 cm				
	Plant to plant spacing	16 cm to 24 cm				
	Depth of rice	2 cm to 5cm				
	Working Area	At least 5 kattha/ hour				
	Machine Size (cm)	107*141*41 or above				
	Machine weight	33 kg or above				
	Tray Size (cm)	20*60 or above				
	Tray weight	0.55 kg or above				


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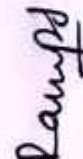
S.N.	Name of Implements With Description	Technical Specification (Mandatory to fill up otherwise not consider their)	Price Quoted (Nrs.)		Remarks
			Words	Figure	
8	Maize sheller (single tube)				
	Dimensions:	500mm x 270mm x 500mm ($\pm 5\%$)			
	Weight	10 kg (without motor)			
	Speed	1800r/min			
	Production efficiency	0.8 T/h			
	Supporting power	Single phase motor 0.65Kw or more			
	Voltage	220V/50hz			
	Broken rate	<1, 5%			
	Frame	MS Angle.			
9	Electrical combine mill				
	Power source	3-4 hp (2.2-3 kw) 1PH, 220V/50Hz/2800RPM. (100 percent copper wire binding motor)			
	Body material	metallic steel			
	Capacity	>80kg/hr. for rice de-husking; >150 kg for grinding			
	Feeding	hopper having adjustable feed rate mechanism			
	Outlet	should have adjustable system in outlet, polyester spout cloth provided			
	Compartment	rice and disc grind compartment one single machine			
	Rotor diameter (mm)	rice mill: not less than 40; disc mill: not less than 210			
	Sieve (mm)	aperture :1.2			
	Feature required	application in both milling of cereals such as rice, wheat, millet and paddy. Gross wt. 75 kg or above			
	Safety	protective covers on moving parts such as belt, blades, pulley etc.			

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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their	Price Quoted (Nrs.)		Remarks
				Words	Figure	
10	Two in one electrical sprayer					
	Tank capacity	16 L minimum				
	PUMP TYPE	12 V Motor operated diaphragm type with 2-3 liter per				
	Speed	3000-3600 rpm				
	Battery	12 V, 8-9AH rechargeable				
11	Minimum Working pressure	0.4 M Pascal. Nozzles Minimum 2 pieces				
	Lance material	Stainless steel				
	Combined Power Thresher					
	General	Gasoline power operated multi crop thresher of threshing				
	Capacity	(paddy): ≥ 300 kg/hr. Cyclone Grain cleaning.				
12	Power	Gasoline engine, >6.5 hp. 4 stroke, petrol, air cooled.				
	Fuel tank capacity	>3.6 L				
	Rated RPM	3000-3600				
	Roller speed	≥ 800 RPM				
	Breakage rate	$<2\%$				
	Cleaning fan speed	>2000 RPM				
	Transportation wheel	Pneumatic tyre				
	Gross weight	70 kg				
	Safety	Protective covers etc.				
	Bed former					
12	Adjustable furrow size bed former furrow attaching on mini tiller. Painted black and made of MS iron, weight not less than 3 kg. tilling width 200-300mm, depth 120-200mm.					


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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their)	Price Quoted (Nrs.)		Remarks
				Words	Figure	
13	Power tiller					
	General	Agricultural diesel Power tiller suitable for wet and dryland condition of Nepal. The weight of the power tiller with Rotavator shall be 400-450 kgs.				
	Engine	Horizontal single cylinder, 4 stoke Water Cooled diesel engine, The maximum power output shall be in the range of 12± (5%) HP at governed RPM.				
	Starting System	Hand Cranking				
	Transmission	Gear Type				
	Fuel Tank	Minimum 10 Liter				
	Cooling	Water cooled				
	Turning speed of rototilling shaft	300-550 RPM				
	Rototilling width	600 mm minimum, number of blades minimum 18				
	Minimum ground clearance	185 mm				
14	Portable bag closer sewing machine					
	Make,model,brand	any				
	Power required	220-250V, 1.3 Amps, 8000 rpm AC Motor				
	Bag closing speed	not less than 1800 stitch per minute or 6 to 8 bags per minute				
	Stitch length	around 3.5 stitches/inch				
	Types of bags	All kind of multi wall paper, jute, burlap, cotton, hessian, woven bags to obtain maximum sewing performance use standard thread cone				
	Thread	thread cone				
	Weight	around 6 kg				
	dimensions	13*12*12' approx				

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S.N.	Name of Implements With Description	Technical Specification	Price Quoted (Nrs.)		Remarks
			Words	Figure	
15	Peeling Machine for Coffee				
	Make, model, brand	any			
	Output Capacity	not less than 75 kg/ hour			
	Frequency	50 Hz			
	Voltage	415 V			
	Operation	Motor Operated			
	Power Required	electric motor power 5 hp, 3 phase			
16	Disc Type Pulper Machine for Coffee	approx. 1100 mm * 900 mm * 1200 mm			
	Make, model, brand	any			
	Input Capacity	not less than 300 kg/ hour			
	Frequency	50 Hz			
	Voltage	220 volts			
	Power required	electric motor power, 1 hp, single phase.			
	Disc Diameter	13 inches in approx			
17	Coffee Roaster Machine	Cast Iron			
	Make, model, brand	any			
	Batch Capacity	not less than 5 kg			
	Roasting Power	15 kW (max.)			
	Roasting Duration	around 12 minutes (medium roast)			
	Cooling Duration	around 3 minutes			
	Roasting System	Directly Heated Fire			
18	Potato Planter	220V single phase			
	Make, model, brand	any			
	Power (Power Tiller)	not less than 12 hp			
	No. of rows	1			
	ridging of rows	1			
	Sowing depth	80 mm or more			
	Potato Capacity	15 kg			
	Planting distance	250- 330 mm adjustable			
	Dimension of planter	28" x 18" x 30" (approx)			
	starting method	Manual			

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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their)	Price Quoted (Nrs.)		Remarks
				Words	Figure	
19	Post Hole Digger					
	Petrol engine, 2 or 4 stroke, capacity greater than 1.6 hp, material : iron made, Working depth : greater than 2 ft., working width : 4 or 6"					
20	Flour Mill/Disk Mill					
	Power source	3-4 hp (2.2-3 kw) 1PH, 220V/50Hz/2800RPM. (100 percent copper wire binding motor)				
	Body material	Iron				
	Capacity	100-120kg/hr.				
	Feeding	hopper having adjustable feed rate mechanism				
	Outlet	should have adjustable system in outlet, polyester spout cloth provided				
	Rotor diameter (mm)	disc mill: not less than 210				
	Sieve (mm)	aperture : 1.2				
	Feature required	application in flouring of cereals such as rice, wheat, millet and paddy. Gross wt. 45 kg or above				
	Safety	protective covers on moving parts such as belt, pulley etc.				
21	Maize Planter					
A	Manual jab Planter (for Maize)					
	Model	Single Barrel (Seed only) or Dual Barrel (Seed + Fertilizer)				
	Weight	2.5 kg to 6 kg				
	Total Height	80 cm to 100 cm				
	Sowing Depth	Adjustable: 3 cm to 5 cm				
	Seeds per Hill	Adjustable: 1, 2, or 3 seeds				
	Seed Hopper Capacity	1 kg to 1.5 kg				
	Fertilizer Application (Dual)	Adjustable Rate				

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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their)	Price Quoted (Nrs.)		Remarks
				Words	Figure	
B	Push Row Seeders					
	Specification	Typical Range / Description				
	Power Source	Manual (Hand-Push/Walk Behind)				
	Seeding Rows	1 (Single Row)				
	Applicable Seeds	Maize/Corn, Soybean, Peanut, Sorghum, Millet, etc.				
	Seed Metering Device	Vertical Plate/Disc, Scoop Wheel, or Roller Type				
	Sowing Depth	Adjustable, typically 3.5 cm to 7.8 cm				
	Planting Distance (Seed-to-Seed)	Adjustable, often 15 cm to 40 cm				
	Row Spacing (If multi-row)	Adjustable, often 14 cm to 56 cm				
	Seeding Rate	1 to 3 seeds per hole, adjustable				
	Seed Box Capacity	Varies, typically 3 kg to 5 kg				
	Fertilizer Applicator	Optional (Push Seeder With Fertilizer)				
	Weight (Net)	Lightweight, typically 10 kg to 15 kg				
	Work Efficiency	Varies, often 0.5 to 1.0 ha/day				

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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their)	Price Quoted (Nrs.)		Remarks
				Words	Figure	
22	combined tillage Make, model, brand Tilling scope Tilling Depth Transmission System Gear Shifting Maximum Power Accessories	any Tilling: 600 mm or above Ditching: 290 mm or above Tilling: 100 mm or above Ditching: 60 mm or above Gear Transmission Walking gearbox: -1,0,1,2 Tilling gearbox: -1,1 7 hp 5 pieces ditching blade, 3 pcs 3 group rotary blades, one set iron wheel, 1 set rubber tyre				
23	Small-Scale Electric Maize Dehusker Power Source Motor Power Output Capacity Operation Mode Efficiency (Typical) Grain Cleaning Drum Size Weight Working Principle	Electric Motor (Single Phase) 1 HP to 3 HP (0.75 kW to 2.2 kW) 400 kg/hr to 1,500 kg/hr (Grains) Semi-Automatic Dehusking more than 98%, Shelling more than 98% Includes a single fan/blower 18 inches to 30 inches (Approx.) 30 kg to 100 kg (Without Motor) Impact, Shear, and Abrasion				

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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their)	Price Quoted (Nrs.)		Remarks
				Words	Figure	
24	Self-Propelled Power Reaper					
	Power Source	Diesel or Petrol Engine (4-Stroke)				
	Engine Power	3.5 HP to 10 HP (2.6 kW to 7.5 kW)				
	Working Capacity	0.2 to 1.0 hectare/hour (0.5 to 2.5 acres/hour)				
	Cutting Width (Cutter Bar)	1.2 meters to 1.5 meters (4 feet to 5 feet)				
	Min. Cutting Height	3 cm to 10 cm (Adjustable)				
	Working Speed	2.0 to 4.0 km/h				
	Placing Type	Sidewise & Banded Placed (Windrowing)				
	Transmission Type	Gear Drive (More durable) or Belt Drive				
	Weight	200 kg to 350 kg (approx.)				
	Fuel Consumption	0.7 to 1.0 liter/hour (Diesel/Petrol)				
	Suitable Crops	Paddy (Rice), Wheat, Barley, Oats, Millets, Sorghum,				
25	Self-Propelled Power Weeder (Engine-Operated)					
	Feature	Typical Specification Range				
	Power Source	Petrol/Kerosene Engine, 1.5 HP to 5 HP (1.1 kW to 3.7				
	Row Spacing (Weeding)	Adjustable, often set to 30 cm (300 mm)				
	Number of Rows Weeded	3 to 5 rows at a time				
	Weeding Mechanism	Rotary heads with 'L' or 'C' shaped blades or Cono-type				
	Working Depth	20 mm to 50 mm (2 to 5 cm)				
	Field Capacity	0.06 to 0.1 ha/h (Approx. 0.6 to 1 acre in 8 hours)				
	Weight	15 kg to 30 kg (Lightweight for easy maneuverability)				

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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their	Price Quoted (Nrs.)		Remarks
				Words	Figure	
26	Power tiller not less than 18 HP, 2 WD					
	General	Farm Tractor Not less than 18HP/2WD Drive suitable for pulling or pushing agricultural machinery or trailers, for ploughing, tilling, disking, harrowing, planting, and similar tasks.	Make: Model:			
	Engine	Not less than 800 CC , 2 WD , one or more cylinder, Rated engine speed not less than 2200 RPM, shall fully equipped with accessories for efficient full load operation .	Make: Model:			
	Gauges	To include speedometer, water temperature, fuel, oil pressure, transmission gauge etc. as necessary for efficient operation and maintenance.				
	Transmission	Manual shift at least 6 forward and 2 reverse, all forward synchromesh/Constant mesh suitable for comfort and safe driving.				
	Brakes	Oil Immersed brake				
	PTO	Pneumatically operated/ hydraulic operated.				
	Instructions	All signs and instructions in the vehicle shall be in English.				
	Manuals	One copy of the Operator's and Owner's Instructions in English shall be supplied with each vehicle.				
	Tools	A set of tools as required for general maintenance shall be supplied.				
	Overall Weight	Not less than 800 kg				
	Proven performance	The bidder shall provide the manufacturer's data of the performance of at least two unit supply in Nepal,				
	Warranty	Manufacturer shall provide a minimum of one-year warranty after acceptance.				
	Initial Service	The supplier shall provide all the necessary filters and spare parts required to the vehicle for the first two services, after the vehicle has been accepted.				

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S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their)	Price Quoted (Nrs.)		Remarks
				Words	Figure	
27	Seed moisture Meter					
	Measurement Principle	Capacitive (High Frequency Alternate Current)				
	Sample Type	Whole Grains and Seeds (Compression Method)				
	Measurement Duration	Approximately 5 seconds				
	Pre-programmed Scales	16 common grain and seed types (scales vary slightly by region).				
	Moisture Range (Grains)	Typically 8% to 35%				
	Moisture Range (Oilseeds)	Typically 5% to 25%				
	Display	Easy-to-read numeric LCD display.				
	Average Calculation	Internal memory stores measurements to calculate and display the average value (up to 99 results).				
	Power Supply	1 x 9V battery (6LR61).				
	Dimensions/Weight	Designed for portability and durability; typically supplied with a carrying case.				
28	Handle drill with spawn drill tip					
	general	To drill precise holes in logs for mushroom spawn inoculation.				
	Power Source	240 v AC				
	Motor Amps (A)	9.0 Amps				
	Speed (RPM)	0 – 550 RPM (Variable Speed)				
	Drill bit	Spawn type				
	Diameter	8.0 mm to 8.5 mm				
	Spawn diameter	12.0 mm to 12.5 mm				
	Weight	Approx. 3.5 kg (gross)				

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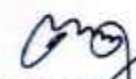


S.N.	Name of Implements With Description	Technical Specification	Supplier's specification (Mandatory to fill up otherwise not consider their	Price Quoted (Nrs.)		Remarks
				Words	Figure	
29	Automatic Sensor Based Irrigation and Fertigation System					
A	Soil Temperature, Moisture and Electrical Conductivity Sensor					
	Power Supply	3.6V-30V/DC				
	Current Consumption	6mA@24V DC				
	Soil Moisture Measurement Range	From completely dry to fully saturated (from 0% to 100% of saturation)				
	Soil Moisture Resolution	0.03 % (0-50%) 1% (50-100%)				
	Soil Moisture Accuracy	±2% (0-50%) ±3% (50-100%)				
	Temperature Measurement Range	-40-80°C				
	Temperature Resolution and Accuracy	0.1°C and ±0.5°C				
	Electrical Conductivity Measurement Range	0-10000 µs/cm				
	Temperature Compensation	Built-in temperature compensation sensor, Range: 0-50°C				
	Operating Temperature	-40- 85°C				
B	Automatic Control Panel					
	Power Supply	5V-24V/DC				
	Display Type	LCD				
	Switching Method	Relay and Contactor				
	Voltage Protection	Over and Under Voltage Protection				
	Current Protection	Overload/ Overcurrent Protection				
	Individual Load Switching Method	Automatic OFF/ Manual				
C	Cloud Based Monitoring System					
	Soil Parameter	Should monitor at least Volumetric Water Content, Temperature and Electrical Conductivity				
	Air Parameter	Should monitor at least Humidity, Temperature and Due Point				

Suppliers responsibilities

- Manufacturing company shall provide at least 1 year of warranty in case of manufacturing defect.
- Necessary spare parts shall be supplied easily in demand of beneficiary.
- General operation training of the machine shall be given to the purchaser.
- Test report, lab certificate regarding machineries power with respected country verified certification must be included by the suppliers.

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