

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 रूपमा भर्नु पर्ने छ।



**Technical Specification of Farm Machinery and Equipments**

S.N.	Name of Implements With Description	Technical Specification	Price Quoted (Nrs.)		Remarks
			Words	Figure	
1	<b>Diesel Mini Tiller 5.5 hp category</b>				
	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			
	Depth of cut(cm)	10 or above			
Fuel tank capacity(liter)	minimum 2.5 litres				
2	<b>Diesel Mini Tiller 7 hp category</b>				
	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			
	Depth of cut(cm)	10 or above			
Fuel tank capacity(liter)	minimum 3.5 litres				

  
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S.N.	Name of Implements With Description	Technical Specification	Price Quoted (Nrs.)		Remarks
			Words	Figure	
3	<b>Diesel Mini Tiller 9 hp category</b>				
	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			

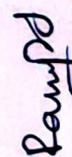
  
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 ಕೃಷಿ ಇಂಜಿನಿಯರಿಂಗ್  
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S.N.	Name of Implements With Description	Technical Specification	Price Quoted (Nrs.)		Remarks
			Words	Figure	
4	<b>Petrol Mini Tiller 7 hp category</b>				
	Make & model of 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			
Depth of cut(cm)	10 or above				
Fuel tank capacity(liter)	minimum 3.5 litres				
5	<b>Petrol Mini Tiller 9 hp category</b>				
	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				

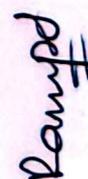
  
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S.N.	Name of Implements With Description	Technical Specification	Price Quoted (Nrs.)		Remarks
			Words	Figure	
6	<b>Self-Propelled Rice Transplanter (Walking Type)</b>				
	Make & model of machine	ISO certified, Rice Transplanter Model, Engine Model 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	<b>Manually Operated Rice Transplanter (Walking Type)</b>				
	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)	<p>Dimensions: 500mm × 270mm × 500mm (±5%)</p> <p>Weight 10 kg (without motor)</p> <p>Speed 1800r/min</p> <p>Production efficiency 0.8 T/h</p> <p>Supporting power Single phase motor 0.65Kw or more</p> <p>Voltage 220V/50hz</p> <p>Broken rate &lt;1, 5%</p> <p>Frame MS Angle.</p>			
9	Electrical combine mill	<p>Power source 3-4 hp (2.2-3 kw) IPH, 220V/50Hz/2800RPM. (100 percent copper wire binding motor)</p> <p>Body material metallic steel</p> <p>Capacity &gt;80kg/hr. for rice de-husking; &gt;150 kg. for grinding</p> <p>Feeding hopper having adjustable feed rate mechanism</p> <p>Outlet should have adjustable system in outlet, polyester spout cloth provided</p> <p>Compartment rice and disc grind compartment one single machine</p> <p>Rotor diameter (mm) rice mill: not less than 40; disc mill: not less than 210</p> <p>Sieve (mm) aperture :1.2</p> <p>Feature required application in both milling of cereals such as rice, wheat, millet and paddy. Gross wt. 75 kg or above</p> <p>Safety protective covers on moving parts such as belt, blades, pulley etc.</p>			

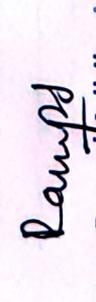
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S.N.	Name of Implements With Description	Technical Specification	Price Quoted (Nrs.)		Remarks
			Words	Figure	
10	Two in one electrical sprayer				
	Tank capacity	16 L minimum			
	PUMP TYPE	12 V Motor operated diaphragm type with 2-3 liter per			
	Speed	3000-3600 rpm			
	Battery	12 V, 8-9AH rechargeable			
	Minimum Working pressure	0.4 M Pascal. Nozzles Minimum 2 pieces			
	Lance material	Stainless steel			
11	Combined Power Thresher				
	General	Gasoline power operated multi crop thresher of threshing			
	Capacity	(paddy): ≥300 kg/hr. Cyclone Grain cleaning.			
	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.			
12	Bed former				
	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	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			
	Thread	to obtain maximum sewing performance use standard 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			
	Dimension	approx. 1100 mm*900 mm*1200 mm			
16	Disc Type Pulper Machine for Coffee				
	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			
	Disc Material	Cast Iron			
17	Coffee Roaster Machine				
	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			
	Voltage	220V single phase			
18	Potato Planter				
	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 starting method	28" x 18" x 30" (approx) Manual				

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S.N.	Name of Implements With Description	Technical Specification	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 Body material Capacity Feeding Outlet Rotor diameter (mm) Sieve (mm) Feature required Safety	3-4 hp (2.2-3 kw) IPH, 220V/50Hz/2800RPM. (100 percent copper wire binding motor) Iron 100-120kg/hr. hopper having adjustable feed rate mechanism should have adjustable system in outlet, polyester spout cloth provided disc mill: not less than 210 aperture : 1.2 application in flouring of cereals such as rice, wheat, millet and paddy. Gross wt. 45 kg or above 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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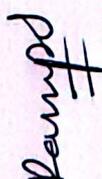
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S.N.	Name of Implements With Description	Technical Specification	Price Quoted (Nrs.)		Remarks
			Words	Figure	
B	Push Row Seeders				
	Specification	Typical Range / Description			
	Power Source	Manual (Hand-Push/Walk Behind)			
	Seeding Rows	1 (Single 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	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	<b>Self-Propelled Power Reaper</b>					
	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	<b>Self-Propelled Power Weeder (Engine-Operated)</b>					
	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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				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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27	<b>Seed moisture Meter</b>					
	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 <b>average value</b> (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	<b>Handle drill with spawn drill tip</b>					
	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	Words	Figure	
29	<b>Automatic Sensor Based Irrigation and Fertigation System</b>						
A	<b>Soil Temperature, Moisture and Electrical Conductivity Sensor</b>						
	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	<b>Automatic Control Panel</b>						
	Power Supply	5V-24V/DC					
	Display Type	LCD					
	Switching Method	Relay and Contactor					
	Voltage Protection	<b>Over and Under Voltage Protection</b>					
	Current Protection	Overload/ Overcurrent Protection					
	Individual Load Switching Method	Automatic OFF  Manual					
C	<b>Cloud Based Monitoring System</b>						
	Soil Parameter	Should monitor at least Volumetric Water Content, Temperature and Electrical Conductivity					
	Air Parameter	Should monitor at least Humidity, Temperature and Dew Point					

**Suppliers responsibilities**

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

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 Rampal  
 No.: 87527A

कुल प्रसाद द्विवेदी  
 कार्यालय प्रमुख  
 अधिकृत स्तर नवौ