

राष्ट्रीय कृषि आधुनिकीकरण कार्यक्रम, कार्यक्रम कार्यान्वयन एकाइ, बर्दिया
सिलबन्दी दरभाउ प्रस्ताव

Technical Specification of Crate			
S.N.	Particulars/Parameters	Required Specification	Offered Specification
I	General Specification	A crate is used for shipping agricultural inputs, typically used to transport of Vegetable, Fishes, Dairy Items etc.	Make: Model: Gross wt.: Country of origin:
A	Completely Locked Type		
1	Type	Completely Locked	
2	Capacity	≥50 liter	
3	Color	Standard Color	
4	Shape	Rectangular	
5	Style	Durable	
6	Weight	≥2.5 Kg	
B	Semi Precipitated Type		
1	Type	Semi Precipitated Type	
2	Capacity	≥50 liter	
3	Color	Standard Color	
4	Shape	Rectangular	
5	Style	Durable	
6	Weight	≥2.5 Kg	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of Manual chaff cutter			
S.N	Description	Specification	Offered
A	General Application	Electric chaff cutter should be capable of Cutting straw, maize stalk, green grass for livestock	Make: Model: Gross wt.: Country of origin:
1.	Power Source	Hand operated	
2.	Attachments	Handle, Feeder all complete	
3.	Feed Roller	2 no roller	
4.	Gross Wt.	55-70 kg	
5.	No Of Blades	2 blades	
6.	Gear Box	Heavy duty	
7.	Handle	MS or polycarbonate/wood	
8.	Wheel	heavy duty Cast Iron wheel	
9.	Handle	MS or polycarbonate/wood	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of Electric Chaff cutter			
S.N	Description	Specification	Offered
A	General Application	Electric chaff cutter should be capable of Cutting straw, maize stalk, green grass for livestock.	Make: Model: Gross wt.: Country of origin:
1.	Power Source	Hand operated and Electric motor	
2.	Electric Power (Hp)	2-3Hp, single phase, 50Hz	
3.	Speed of Motor	1440	
4.	No of Feed Roller	3	
5.	Attachments	Handle, Motor stand, Feeder all complete	
6.	Transmission	V belt drive	
7.	Stand	Heavy duty made of MS angle	
8.	Approx. Gross Wt.	80/90 kg	
9.	No Of Blades	2 blades	
10.	Wheel	heavy duty Cast Iron wheel	
11.	Gear Box	Heavy duty	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of Cream Separator Machine			
S.N	Description	Specification	Offered
A	General Application	This machine primarily used for processing and converting raw milk and separating to cream products for dairy production.	Make: Model: Gross wt.: Country of origin:
1.	Type	Khowa Making Machine	
2.	Vessel Material	Stainless Steel	
3.	Volume of Vessel's	120 Ltr. approx.	
4.	Thickness of Bottom	At least 30mm (mild steel or SS304)	
5.	Numbers of blowers and burners:	Two + Two	
6.	Switch	On/off switch on machine	
7.	Number of Blades	Two	
8.	Types of Fuel to be used	LPG/Diesel/Kerosene	
9.	Fuel tank material and capacity	Mild steel, At least 20Ltr	
10.	Electrical load	At least 1 Hp	
11.	Capacity	Milk Conversion into khuwa per batch 10-15 liter in 40 min	
12.	Instruction	All singed and instruction in an English/Nepali	
13.	Rate in Figure (including VAT for applicable items)		
14.	Rate in words		

Technical Specification of Chilling Vat 1000 Ltr. capacity Machine and Milk Analyzer			
S.N	Description	Specification	Offered
A	General Application	This machine primarily used for processing and converting raw grains into consumable products for poultry and cattle.	Make: Model: Gross wt.: Country of origin:
A	Chilling Vat		
1.	Tank Capacity	1000 Ltr	
2.	Moc Inner shell	Minimum 2 mm	
3.	Moc Outer Jacket	At least 1.5 mm	
4.	Inner shell grade SS	304 AISI	
5.	Outer shell grade SS	202/304 AISI	
6.	Puff Insulation	80 mm	
7.	Evaporator	Dimpled plate	
8.	Agitator (28-40 rpm)	Single	
9.	Power supply	3 Phase	
10.	Compressor	Emerson make/Hermetic sealed	
11.	Cooling System	Direct Expansion Type	
12.	Refrigeration Unit	3 Tr	
13.	Refrigerant	R 404 A/ R 407 C	
14.	Control Panel Board	Includes: Contractors, Overload, relays-digital temperature controller 7510 T, Voltage protection relay and MCB	
15.	Expansion Device	TX2	
16.	LP/HP	Yes	
17.	Outlet Valve SS 304L BfV	38 mm	
18.	Shape	Rectangular/Circular/Elliptical	
B	Milk Analyzer with Inbuilt Printer and Data Processing Unit		
1.	Milk Analyzing Time	Less than 30 seconds	
2.	Controller data Processing Unit	At least 32 bit with inbuilt Printer, Remote Display Unit, Ultrasonic Digital Air Cleaner/Vibrator, milk weighing scale with 100 ls, Online DC UPS 12V in 111WH with some extra chemical.	
3.	Measuring Ranges	Accuracy	
4.	Fat (0-35) %	0.06%	
5.	Solid -Non-Fat(SNF) (3-4) %	0.15%	
6.	Density, (1000-1160) kg/m ³	0.3kg/m ³	
7.	Protein, (2-15) %	0.15%	
8.	Lactose, (0.01-20) %	0.02%	
9.	Salts, (0.4-15) %	0.05%	
10.	Added water, 70 %	3%	
11.	Freezing point, (0.4-0.7) °C	0.005°C	
12.	Sample Temp. (5-40) °C	1°C	
13.	Sample volume 20 ml	+2sec	
14.	Sample speed 40 sec.	+5sec	
15.	Certification	ISO 9001	
16.	Tools	A set of tool for its handling	
17.	Warranty	One year	
18.	Performance Test	The bidder shall provide the manufacturer's data of performance of unit to include eff.	
19.	Rate in Figure (including VAT for applicable items)		
20.	Rate in words		

Technical Specification of Milking Can			
S.N	Description	Specification	Offered
A	General Application	This milking can primarily used for storing and transporting milk for dairy production.	Make: Model: Gross wt.: Country of origin:
1.	Capacity	40ltr	
2.	Material	Aluminum	
3.	Color	Standard Color	
4.	Weight	At least 6 Kg	
5.	Body Wall Thickness	5 mm	
6.	Shape	Cylindrical	
7.	Rate in Figure (including VAT for applicable items)		
8.	Rate in words		

Technical Specification of Deep Freeze			
S.N	Description	Specification	Offered
A	General Application	Deep Freeze should be capable of maintain required temperature of agriculture commodities i.e. fruits, vegetables, and meat items.	Make: Model: Gross wt.: Country of origin:
1.	Capacity	Not less than 500 Liter	
2.	Temperature	$\geq -18^{\circ}\text{C}$	
3.	Voltage	220-240 V	
4.	Frequency	50 Hz	
5.	Phase	Single/ Three	
6.	Refrigerants	R290 or Equivalent	
7.	PUF Thickness	At least 50mm	
8.	No. of Baskets	At least 2	
9.	Inside Body Layer	Aluminum	
10.	Dimension	Up to 700mm*600mm*800mm	
11.	Color	Standard	
12.	Warranty & Service	At least 1 years and two times	
13.	Rate in Figure (including VAT for applicable items)		
14.	Rate in words		

Technical Specification of Digital Weighing Machine			
S.N	Description	Specification	Offered
A	General Application	The main purpose is to weigh the grain Commodities in house hold as well as Business purposes.	Make: Model: Gross wt.: Country of origin:
1.	Weighing Capacity	Up to 100 kg	
2.	Accuracy	± 25 gm	
3.	Platform Size	Approx. 400x400 mm	
4.	Voltage	240 V	
5.	Others	Easy to Handle and Carry	
6.		Bright LED Display,	
7.		Overload Protection	
8.		Battery Backup/ Charging Wire	
9.		Push Button Keys	
10.		Auto Zero Tracking	
11.		Stainless Steel Plate/ MS Plate	
12.	Certification	Nepal Bureau of Standards and Metrology	
13.	Rate in Figure (including VAT for applicable items)		
14.	Rate in words		

Technical Specification of Power Aerator			
S.N	Description	Specification	Offered
A	General Application	The aerator should be capable of maintain the environment physiological requirements of aquaculture organisms and water dissolved oxygen concentration to their health and survival	Make: Model: Gross wt.: Country of origin:
1.	Rated Power	≥1.5 Kw	
2.	No. of Paddle	4 or 6	
3.	Paddle Length	At least 100 cm	
4.	Paddle Width	Minimum 22 cm	
5.	Paddle Speed	At least 125 RPM	
6.	Tilling Angle	105°	
7.	Motor Power	≥2 Hp	
8.	Phase	Single	
9.	Frequency	50 Hz	
10.	Motor Speed	At least 1400 RPM	
11.	Voltage	180-240 V	
12.	Tools	Tools required for general maintenance	
13.	Rate in Figure (including VAT for applicable items)		
14.	Rate in words		

Technical Specification of Spring Type Cultivator			
S.N	Description	Specification	Offered
A	General Application	The spring type cultivator type should be capable of ploughing agriculture land.	Make: Model: Gross wt.: Country of origin:
1.	Type	Tractor mounted spring type	
2.	Power Source	Tractor (35 Hp) or Above	
3.	No. of Tyne	At least 9	
4.	Working Width (cm)	210-300	
5.	Capacity (ha/hr.)	0.35- 0.5	
6.	Type of shovel	Reversible shoe type	
7.	Warranty	One year of manufacturing defects.	
8.	Rate in Figure (including VAT for applicable items)		
9.	Rate in words		

Technical Specification of Non- Spring Type Cultivator			
S.N	Description	Specification	Offered
A	General Application	This type of cultivator should be capable of ploughing dry and wet agriculture land in smooth ways .	Make: Model: Gross wt.: Country of origin:
1.	Power Source	Tractor (35 Hp) or Above	
2.	Type	Non-Spring Load	
3.	Main Frame Construction Details	Mild Steel Flat/Channel/I-Section	
4.	No. of Tynes	9	
5.	No. of Shovel	9	
6.	Type of Shovel	Reversible	
7.	Hitch Point	3 Point Linkage	
8.	Overall Width	≥80 inches	
9.	Working Width	≥72 inches	
10.	Overall Height	≥30 inches	
11.	Overall Weight	≥200 Kg	
12.	Under Frame Clearance	Minimum 15 inches	
13.	Warranty Period	One Year	
14.	Operation and Maintenance manual and parts catalog	One Copy in English	
15.	Rate in Figure (including VAT for applicable items)		
16.	Rate in words		

Technical Specification of 14 Disc Blade Harrow			
S.N	Descriptions	Office Requirements	Offered by Bidders
A	General	Disc Harrow Suitable for land preparation in rough working condition of heavy clay to loam textured soil and agriculture purpose.	Make: Model: Gross wt.: Country of origin:
1.	Power Source	4 WD tractor driven	
2.	No. of Disc	14	
3.	Rate in Figure (including VAT for applicable items)		
4.	Rate in words		

Technical Specification of 12 Disc Blade Harrow			
S.N	Descriptions	Office Requirements	Offered by Bidders
A	General	Disc Harrow Suitable for land preparation in rough working condition of heavy clay to loam textured soil and agriculture purpose.	Make: Model: Gross wt.: Country of origin:
1.	Power Source	4 WD tractor driven	
2.	No. of Disc	12	
3.	Rate in Figure (including VAT for applicable items)		
4.	Rate in words		

Technical Specification of Zyrovator			
S.N	Description	Specification	Offered
A	General Application	The zyrovator should be capable of ploughing rough soil to fine particle for seed bed preparation and other agriculture purpose.	Make: Model: Gross wt.: Country of origin:
1	Engine /Prime mover	Tractor operated PTO type	
2	Power required	Tractor of 45 Hp or above	
3	Overall width (cm)	200	
4	Tillage width (cm)	180	
5	Power transmission	Multiple Gear Type	
6	R.T.O Speed (Rpm)	540/1000	
7	No. of blade	48	
8	Approximate Weight	420	
	Rate in Figure (including vat for applicable items)		
	Rate in words		

Technical Specification of Rotavator			
S.N	Description	Specification	Offered
A	General Application	The Rotavator machine should be capable land preparation, tillage operation for cultivation.	Make: Model: Series: Country of origin:
1.	Gear Box	Single/Multiple Speed	
2.	Transmission	Gear Drive	
3.	Type of Blade	C or L type	
4.	No. of Blade	42-48	
5.	No. of flange's	8-10	
6.	Tractor Power	45-75 Hp	
7.	Gross Weight	400-500 kg	
8.	Rate in Figure (including VAT for applicable items)		
9.	Rate in words		

Technical Specification of Electric three wheeler			
S.N	Particulars/Parameters	Required Specification	Offered
A	General Application	The machine should be capable of Transporting Agricultural inputs/crops/Commodities/products	Make: Model: Origin Country:
1	Product type	3 wheel cargo	
2	Model	certified	
3	Overall Size (mm)	Not Less than (3200x1200x1350)	
4	Charging Mileage (km)	140	
5	Top Speed (km/hr.)	40	
6	Rated load (kg)	≤ 1500	
7	Power	Lead acid battery	
8	Charging time (Hrs.)	6- 8 hrs.	
9	Motors	60v/1500w or above DC brushless motor	
10	Battery & charger	12v 12ah lead acid battery	
11	Brake	Drum Brake	
12	Instruction	All signs instruction in the cargo shall be in English/Nepali	
13	Proven Performance	The bidder shall provide the manufacturer's data of performance of unit to include efficiency	
14	Color	Standard Color	
15	Delivery Place	The vehicle shall be delivered to Office or as recommended place.	
16	Warranty Period	1 years	
17	Operation and Maintenance	At least one Year services	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical specification of Electric pump 1.5 Hp			
S.N	Items	Specification	Offered
A	General Application	Suitable to operate lifting of Irrigation water from bore well	Make: Model: Gross wt.: Country of Origin:
1.	Electric power	1.5HP or Equivalent Single phase, 50 Hz	
2.	Speed	2500-2800	
3.	Pump	Centrifugal impellor Pump	
4.	Total head	6-14 m or above	
5.	discharge (Lpm)	250-400 or above	
6.	pump inlet out	75x75 mm	
7.	Winding	Pure copper winding	
8.	water protection	IP54 protection	
9.	Bearing	Heavy duty ball bearing	
10.	Motor body	Cast iron Monoblock type	
11.	Voltage	120-240V (start and run by Capacity)	
12.	Warranty	at least 1 year	
13.	Operating manual	Nepali/English	
14.	Certification	NS/IS/ISO	
15.	Make	Crompton/Siemen's/ABB/Havel's/Kirloskar or Eq.make	
16.	Rate in Figure (including VAT for applicable items)		
17.	Rate in words		

Technical Specification of Electric pump 2Hp			
S.N	Items	Specification	Offered
A	General Application	Suitable to operate lifting of Irrigation water from bore well	Make: Model: Gross wt.: Country of Origin:
1.	Electric Power	2HP or Equivalent, Single phase, 50 Hz	
2.	Speed	2500-2800	
3.	Pump	Centrifugal impellor Pump	
4.	Total Head	6-12 m or above	
5.	Discharge (Lpm)	700-300 or above	

6.	Pump Inlet Out	75x75 mm	
7.	Pump Shaft	Steel	
8.	Winding	Pure copper winding	
9.	Motor Body	Cast iron Mono-block type	
10.	Voltage	120-240V (start and run by Capacity)	
11.	Warranty	at least 1 year	
12.	Operating Manual	Nepali/English	
13.	Certification	NS/IS/ISO	
14.	Make	Crompton/Siemens/ABB/Havel's/ Kirloskar or Eq.make	
15.	Rate in Figure (including VAT for applicable items)		
16.	Rate in words		

Technical Specification of Electric pump 3 Hp			
S.N	Items	Specification	Offered
A	General Application	Suitable to operate lifting of Irrigation water from bore well	Make: Model: Gross wt.: Country of Origin:
1.	Block	Heavy Duty Mono-block Type	
2.	Electric Power	3 HP or Equivalent, Single phase	
3.	Voltage & Frequency	(160-240) V & (50-60) Hz	
4.	Speed	2500-2800	
5.	Pump	Centrifugal impellor Pump	
6.	Total Head	10-12 m or above	
7.	Discharge (Lpm)	450-800 or above	
8.	Pump Inlet Out	100x100 mm	
9.	Pump Shaft	Steel	
10.	Winding	Pure copper winding	
11.	Motor Body	Cast iron Mono-block type	
12.	Voltage	120-240V (start and run by Capacity)	
13.	Warranty	at least 1 year	
14.	Operating Manual	Nepali/English	
15.	Certification	NS/IS/ISO	
16.	Make	Crompton/Siemens/ABB/Havel's/ Kirloskar or Eq.make	
17.	Rate in Figure (including VAT for applicable items)		
18.	Rate in words		

Technical Specification of Laltin Pump 1.5 HP			
S.N.	Particulars/Parameters	Required Specification	Required Specification
A	General	Submersible pump for low suction head discharge for lifting of water from Open Well/Pond for Irrigation	Make: Model: Gross wt.: Country of origin:
1	Material of machine	CED coated cast Iron /SS steel	
2	Voltage	180-220	
3	Coil	Copper	
4	Power(Hp)	1.5 or equivalent	
5	Speed rpm	2200-2800 rpm	
6	Outlet(mm)	50-75mm	
7	Head (m)	8-16 m	
8	discharge	2000 L/hr. or above	
9	Mechanical Seal	Double sided silicon carbide	
10	Solid handling size	Perforated screen	
11	protection	Ingress protection IP 58 or above	
12	Insulation	Minimum class F	
13	Thermal over load protection	Thermal over load	
14	Warranty Period	Min One Year	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of Submersible Pump			
S.N	Description	Specification	Offered
A	General Application	The pump should be capable of operating to lift water for agricultural purpose.	Make: Model: Gross wt.: Country of origin:
1.	Rated Power	1.5 (Kw)/ 2 Hp	
2.	Phase and Voltage	Single phase/ 180-240 V	
3.	Operating Current	Max. 6 Amp	
4.	Discharge	≥ 140 Lpm max.	
5.	Strongly Recommended for	4" and above diameter bore well	
6.	Power Consumption	1.5 unit/hour	
7.	Maximum Head	180 feet	
8.	Delivery Outlet	At least 32mm	
9.	Operating Manual	English /Nepali	
10.	Rate in Figure (including VAT for applicable items)		
11.	Rate in words		

Technical Specification of Diesel Water Pump set			
S.N	Description	Specification	Offered
A.	General Application	The pump should be capable of operating to lift water for agricultural purpose.	Make: Model: Gross wt.: Country of origin:
1.	Rated Power	4- 5 Hp or Equivalent	
2.	Engine	4 stroke Diesel engine	
3.	Cylinder	Single	
4.	Capacity (cc)	269 cc or above	
5.	Fuel Tank	4-6 Liter	
6.	Engine Lubricant	1200 ml or above	
7.	Speed Rpm	2000-3600 rpm	
8.	Engine Cooling	Water cooled	
9.	Pump Size	75-100 mm	
10.	Suction Head	7-9 m	
11.	Discharge Head	10 m or above	
12.	Discharge	5 Lps or above	
13.	Base Support With Wheel	Heavy duty MS angle section	
14.	Net Wt.	50-70 kg	
15.	Operating Manual	English /Nepali	
16.	Model	R170, Z170/CD170 or Eq.	
17.	Rate in Figure (including VAT for applicable items)		
18.	Rate in words		

Technical Specification of Honda Pump Set			
S.N	Description	Specification	Offered
A	General Application	The pump should be capable of operating to lift water for agricultural purpose.	Make: Model: Gross wt.: Country of origin:
1.	Rated Power	5-6 HP or Equivalent	
2.	Engine	Petrol Engine	
3.	Fuel Tank	4-6 Liter	
4.	Speed Rpm	2500-3600	
5.	Pump Size	70-100 mm	
6.	Suction Head	7-9 m	
7.	Discharge Head	10 m or above	
8.	Discharge	30 m ³ /hr. or above	
9.	Net Wt.	12-20 kg	
10.	Operating Manual	English /Nepali	
11.	Rate in Figure (including VAT for applicable items)		
12.	Rate in words		

Technical Specification of Combine Mill			
S.N	Description	Specification	Offered
A	General Application	The mill should be capable of forming double function, rice milling and flour mill as indeed.	Make: Model: Gross wt.: Country of origin:
1.	Power Source	Electric motor	
2.	Matched Power	3 Hp/2.2 Kw	
3.	Rotating Speed Motor	2800 rpm	
4.	Voltage	Single Phase,50Hz, 220 V	
	Rice Mill		
5.	Roller Size	Min. 40 mm (dia.) × 370 mm (Length)	
6.	whole Rice Ratio	more than 70	
7.	Machine temperature rise after milling	35°C	
8.	Rice temperature rise after milling	13.7°C	
9.	Noise	<85 dB(A)	
10.	Capacity (Rice Mill)	Min. 150-160 kg/hr.	
	Crusher/ Flour Mill		
11.	Noise	<85 dB(A)	
12.	Capacity(pulverized)	Min. 50-70 Kg/hr.	
13.	Capacity(Crushing)	Min. 200 kg/hr.	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of pallet Machine (Dana)			
S.N	Description	Specification	Offered
A	General Application	This machine primarily used for processing and converting raw grains into consumable products for poultry and cattle.	Make: Model: Gross wt.: Country of origin:
1.	Voltage	220V-380V	
2.	Weight	At least 88kg (With Motor, Wood Box)	
3.	Productivity	80-100 kg/h or above	
4.	Rated Power	At least 3/5.8KW, Single Phase/three Phase	
5.	Spindle Speed	At least 2800 r/min	
6.	Pellet Size	At least 2mm-8mm	
7.	Packing	With Motor and Wood Box	
8.	Instruction	All Sing and Instruction in a Pellet Machine shall be in English/Nepali	
9.	Color	Standard Color	
10.	Initial Service	The supplier shall provide the first two service after the goods has been delivered	
11.	Warranty Period	One Year	
12.	Rate in Figure (including VAT for applicable items)		
13.	Rate in words		

Technical Specification of Bund/Ridge Maker Mini-tiller type			
S.N	Description	Specification	Offered
A	General Application	The Bund/Ridge Maker Mini-tiller type should be capable of forming bund for agricultural Crops/purpose.	Make: Model: Gross wt.: Country of origin:
1.	Engine Type	4 stroke Air/Water cooled diesel engine.	
2.	Engine Horsepower	Equivalent to 178F/7Hp or Above	
3.	Tilling Scope (mm)	240-650	
4.	Tilling Depth(mm)	100-240	
5.	Net Wt./Gross Wt.(Kg)	At least 90 /100	
6.	Rate in Figure (including VAT for applicable items)		
7.	Rate in words		

Technical Specification of Self-propelled Reaper			
S.N	Description	Specification	Offered
A	General Application	The self-propelled reaper should be capable of harvesting rice & wheat for agricultural purpose.	Make: Model: Gross wt.: Country of origin:
1	Capacity	6 -8 Hp	
2	Engine / fuel type	Four stroke water cooled / Manual or Electric start	
3	Cutting width	>1050 mm (adjustable)	
4	Cutting height	≥ 60mm	
5	Reaper harvest	4-line at a time	
6	Placement type	Right Side Expansion	
7	Fuel consumption	≤ 900ml/hour	
8	Productivity(m ² /hour)	2000 to 3000	
9	Crank Speed(Rpm)	500 to 550	
10	Gross Weight (Kg)	Not more than 250 Kg	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of Fishing Net (Mahajal)			
S.N	Description	Specification	Offered
A	General Application	The general application of a Mahajal is to capture fish in shallow water storage structure.	Make: Model: Series: Country of origin:
1.	Size	50 gauge(150*3') or above	
2.	Weight	2.9 kg/m	
3.	Material	Plastic/Nylon (Genuine quality)	
4.	Rate in Figure (including VAT for applicable items)		
5.	Rate in words		

Technical Specification of Mini-Tiller 7 hp			
S.N	Description	Specification	Offered
A	General Application	Mini-Tiller should be capable of tilling in dry as well as wet soil for agriculture operation.	Make: Model: Gross wt.: Country of origin:
1.	Engine type	Single –cylinder, vertical, air-cooling, 4-stroke, direct injection	
2.	Overall Dimension(LxWxH)mm	1095x565x880	
3.	Max Tilling Scope(mm)	1100	
4.	Tilling Depth	100-350	
5.	Gear Shifting	0,1,2,-1	
6.	Bore X stroke	78 X62	
7.	Displacement (L)	0.296	
8.	Rated Power(Max) Kw/rpm	5 or above /3600	
9.	Starting System	Recoil start or Electric start	
10.	Fuel tank capacity (L)	3.5 or above	
11.	Fuel number	Num.-0(summer) Num.-10(winter)	
12.	Lube capacity (L)	1.1	
13.	Suitable lube	SAE10W, above CC grade	
14.	Net Weight (kg)	≤33	
15.	Engine Model	178F or equivalent	
16.	Tilling Blade	(3x8) or (4x8)	
17.	Rate in Figure (including VAT for applicable items)		
18.	Rate in words		

Technical Specification of Mini tiller			
S.N	Descriptions	Office Requirements	Offered by Bidders
A	General	Mini-tiller suitable for land preparation in rough working condition of heavy clay to silty loam textured soil	Make: Model: Gross wt: Country of origin:
B	Engine	Manual Start (electric as optional) ,Single cylinder ,4 stroke diesel engine	Make: Model: Country of Origin
i	Engine Type	186F or Equivalent	
ii	Displacement volume	Not less than 410 cc	
iii	Rated Power	Min 8-9 Hp at 3600 rpm	
iv	Engine oil	At least 1100 m	
v	Fuel tank capacity	Not less than 5-6 liter	
C	Transmission	Gear driving	
i	Gear shifting	-1,0,1,2	
ii	Gear Oil	Min 2500 ml	

iii	Clutch type	Friction plate Clutch	
D	Tiller		
i	Tilling width	Not less than 1100-1300 mm	
ii	Blade Accessories	(32-40) curved blades at operating	
iii	Gross wt.	120-150 kg	
iv	Warranty	At least one year's free for both servicing & parts	
v	Demonstration cum training to farmers	1 days demonstration cum training on basic safety, operation & maintenance	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of Diesel Tiller			
S.N	Description	Specification	Offered
A	General Application	The 4 WD mini tractor/tiller should be capable of tilling/ puddling for land preparation for agricultural use.	Make: Model: Gross wt.: Country of origin:
1)	Model & Engine Model	Certified and Standard	Make: Model:
2)	Engine Type	Diesel & 4 stroke	
3)	Displacement volume(cc)	Min. 450	
4)	Rated Power(KW/RPM)	6.5 to 7.5 @3600	
5)	Starting Mode	Self-start/ E-start	
6)	Transmission type	Gear	
7)	Gear shift	Walking:1/2/3/0/-1 Tillering:1/2/3/0/-1	
8)	Tyre size	Front: 4-8 Rear: 5-12 Cage wheel D480	
9)	Tilling blades	4-4 (28-32 blades)	
10)	Tiller width(mm)	1000-1100	
11)	Rate in Figure (including VAT for applicable items)		
12)	Rate in words		

Technical Specification of Power tiller			
S.N	Descriptions	Office Requirements	Offered by Bidders
A	General	Power tiller for Agricultural purpose like land preparation and harvesting , suitable to operate in rough working in condition of heavy clay to silty loam textured soil condition of Nepal.	Make Model Gross wt: Country of origin:
B	Engine	Single cylinder, 4 stroke Diesel engine, water cooled	Make Model Country of Origin
i	Engine Type	Direct injection	
ii	Displacement volume & Bore x Stroke	110x115 or above	
iii	Power at rated rpm	22 Hp at rated rpm	
iv	Start	Self-start / Battery Back Up	
C	Transmission	V belt, Gear driving and Heavy chain	
i	Gear shifting	Forward High 1,2,3 & Low 1,2,3 reverse	
D	Tiller		
i	Tilling width	1000-1200 mm	
ii	Tiller RPM	200-275	
iii	Blade Accessories	28- 32 curved J blades	
E	Warranty	At least one year's free for both servicing & parts at Banke district service center	
F	Demonstration training	1 days demonstration cum training on basic safety, operation & maintenance	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of Cage Wheel			
S.N	Description	Specification	Offered
A	General Application	The cage wheel should be anti-skid for agricultural operations like puddling and tilling.	Make: Model: Gross wt.: Country of origin:
1.	Material Type	MS or High strength steel	
2.	Power Tiller	600mm Diameter X 200mm width	
3.	Net Wt./Gross Wt.(Kg)	In between (10-25)	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of Power Weeder			
S.N	Description	Specification	Offered
A	General Application	The power weeder should be capable of destroying all types of weeds and cultivating the fields.	Make: Model: Gross wt.: Country of origin:
1.	Engine	Single Cylinder Air Cooled	
2.	Displacement	120-140 cc or above	
3.	Transmission	2 Forward 1 Reverse	
4.	Rated Power	≥3 Kw	
5.	Fuel	Petrol/Diesel	
6.	Rotor RPM	At least 110	
7.	Working Width	30-60 cm	
8.	Working Depth	Up to 20 cm	
9.	Handle	Adjustable	
10.	Accessories	Double Plough, Weeder/Planar, Rotor, Wheel set, Plough Connector, Iron Wheels	
11.	Application/Usage	For Weeding and Inter-Cultivation Purpose	
12.	Manual	At least Nepali/ English	
13.	Rate in Figure (including VAT for applicable items)		
14.	Rate in words		

Technical Specification of Electric Winnowing Machine			
S.N	Description	Specification	Offered
A	General Application	The electric winnowing Machine should be capable of winnow paddy, wheat, pulses and other grain and separate waste from it.	Make: Model: Gross wt.: Country of origin:
1.	Power Source	Single Phase	
2.	Rated Power	1-2 Hp (0.75-1.5 kw) electric motor	
3.	Voltage	220/50Hz	
4.	Blow Speed	1200~2000 rpm	
5.	Capacity	200~500 kg/hr. or more	
6.	Material	MS or SS for frame body	
7.	Gross Weight	60 KG or above	
	Rate in Figure (including VAT for applicable items)		
	Rate in words		

Technical Specification of Manual Power Sprayer			
S.N	Description	Specification	Offered
A	General Application	Spray liquid crop performance materials like pesticide, insecticide, weed killing to crops for better growth in agriculture.	Make: Material.: Country of origin:
1.	Material	HDPE or PE	
2.	Type	Knapsack	
3.	Battery Power	Manual Operation	
4.	Size (cm)	Min.(38x22x45)	
5.	Chemical Capacity	15-20 L	
6.	Gross Weight	4.5-7 kg	
7.	Accessories	Belt, Nozzle set (Single, single-adjust, Biforate, four hole etc.)	
8.	Color	Standard	
9.	Rate in Figure (including VAT for applicable items)		
10.	Rate in words		

Technical Specification of Battery Power Sprayer			
S.N	Description	Specification	Offered
A	General Application	Spray liquid crop performance materials like pesticide, insecticide, weed killing to crops for better growth in agriculture.	Make: Material.: Country of origin:
1.	Materials	HDPE or Robust construction Tank	
2.	Type	Back Mounted	
3.	Battery Power	12 V	
4.	Size (cm)	Min.(38x20x45)	
5.	Chemical Capacity	16-20 L	
6.	Pump	Mini-diaphragm	
7.	Working Pressure(Mpa)	0.2-0.40	
8.	Gross Weight	5.5-7 kg	
9.	Accessories	Charger, Belt, Nozzle set (Single, single-adjust, Biforate, four hole etc.)	
10.	Rate in Figure (including VAT for applicable items)		
11.	Rate in words		

Technical Specification of Drum Seeder Machine			
S.N	Description	Specification	Offered
A	General Application	The seeder equipment should be capable for sowing seeds in a precise and efficient manner.	Make: Model: Gross wt.: Country of origin:
1.	Power Source	Hand Operated	
2.	Shape of Seed Drum	Hyperboloid	
3.	Row to Row Spacing	200-250 mm	
4.	No. of Rows	6-8	
5.	Diameter of Drum	200 mm	
6.	Diameter of seed metering hole	8±1 mm	
7.	Diameter of wheel	600 mm	
8.	Type of Ground Wheel	Lugged wheel	
9.	Seed Consumption	15 kg per Hectare	
10.	Material Used	PPCP (Polypropylene Copolymer)	
11.	Gross weight	Less than 10 kg	