

नेपाल सरकार

कृषि तथा पशुपन्धी विकास मन्त्रालय

प्रधानमन्त्री कृषि आधुनिकीकरण परियोजना

परियोजना कार्यान्वयन एकाइ, कपिलवस्तु

प्रस्ताव दरभाउ फारम



१. संस्थाको नाम :
२. संस्थाको ठेगाना :
- सम्पर्क व्यक्तिको मोबाईल नं. :
- ईमेल :
३. आधिकारिक व्यक्तिको नाम :
- पद :
- इमेल :
४. संस्था रजिस्ट्रेशन नं. :
५. रजिस्ट्रेशन गर्ने कार्यालय :
६. फर्म दर्ता मिति :
७. PAN/VAT रजिस्ट्रेशन नं. :
८. व्यापारको किसिम/उद्देश्य :
९. उपलब्ध गराउन सक्ने सामग्रीको दरभाउ र अन्य विवरण प्रस्ट खुल्नु पर्नेछ ।

Technical Specification For Farm Machinery and Equipments						
S.N.	Name of Implements With Description	Technical Specification	Unit	Per Unit Rate (In Figures)	Per Unit Rate (in Words)	Remarks
1)	Paddle Aerator					
	Make and model	Any				
	Type	Paddle Aerator	No. Impeller 2			
	Power Required	1.5Kw/2hp Single Phase				
	Oxygen transfer Rate	minimum 2.1 kg(o ₂)/h				
	Power efficiency	1.25kg/kw.h-2.2kg/kw.h	No. Impeller 4			
	Rotating Speed	1400 to 1600 RPM				
	No. Impeller	2, 4 and 6 respectively				
	Safety System	Voltage Stabilizer and auto cut system for motor protection	No. Impeller 6			
	Weight	110kg -150 kg				

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2) Weighing Machine	Name: Any Model: Any Type: Electronic Weighing Machine Display Type: Digital Material: Mild Steel/stainless steel/Iron. Weighing Capacity: 100kg Battery Backup: 70-80hrs. Size: Suitable Accuracy: ± 10gm Directly Plug: 220V/50 Hz, single phase Platform size: Minimum 400x400mm Warranty: 1 year			
3) Power Tiller	Name: Any Model: Any Type: Single axle, dual purpose for both traction Engine type: Horizontal, 4-stroke single cylinder, Diesel engine Engine speed: 2200 rpm Bore x stroke: 105mm x 115mm System: water-cooled/ condense cooled minimum ground clearance: 185mm min turning radius: 900mm Specific fuel consumption(g/kwhr): 258 g/kw.hr Clutch: Multi plates, dry disc Tillage Width: ≥ 900 mm No of Rotary Blades: Minimum 24 Starting model: hand-crank or power-start or Recoiling start Fuel Tank: 12 litre or above Accessories: Tool box and anti-skid wheel Warranty: 1 year Catalogue/manual: operation manual should submit	18 hp(13.4 kw)	20 hp(14.9 kw)	22 hp (16.4 kw)



4) Electric Motor	Name	Any
	Model	Any
	Type	water pump motor
	Motor Horsepower	1.5 HP (1kw)
	Motor Phase	Single Phase
	Outlet	1.5-2 inches
	Operating Voltage	150-220v
	Operating current	9-12 Amp
	Shaft Speed	3000 rpm
	No of pole	Above 2
	Frame size	80
	Rotavator	
	5)	Make and Model
Type		Tractor PTO operated Rotavator
Power source		Tractor of 35 HP and above
Hitching System		Three point linkage, CAT-/CAT-II
Working width (mm)		Minimum 1500-2200 mm
Type of blade		L/ J/f shape shape with 25 mm overlap of blades as per demand (Note: JF type blade is strongly recommended)
Thickness of blade (mm)		7-8 (min.)
No. of Blades		Minimum of 36 (Depending on sizes)
Distance between consecutive flanges(mm)		200-242 (depending upon type and shape of blade)
Total number of flanges		6-10
Number of blades per flange		6 (max.)
Diameter of rotor shaft (mm) :		85-90
Rotor diameter (including flange and blade mounted on flange, mm)		440-460
Revolution of rotor shaft (rpm)	180-240 (Single speed/ Multi Speed Variants)	
Side Drive	Gear drive/Chain drive variants	
Depth control mechanism	Arc shape skid on both side of rotavator	
Warranty	At least 1 year	

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6)	Gyrovator	Rotary tillage 45 to 60 above 2130 to 2320 1870 to 2070 402 to 423 Multispeed Gear Drive L / J type 54 to 60 174 to 266 RPM Arc shape skid on both side of rotavator 85-90 440-460 1 year on manufacturing defects	
7)	Laser Guided Leveller	Any Self Leveled laser transmitter minimum operating range of 600m (diameter) ± 1.5 mm for 30meters Laser eye receiver for field survey Laser receiver with beam acceptance angle 360 degree Automatic (Digital or analog) Four tyre 2080-2140 mm 580-585 mm 8-9 mm (min.) 12-13 (min) Rigid mast with arms and height adjustment facility Automatic double acting hydraulic cylinder assembly Tripod stand Grade rod for survey Cable Connectors Rechargeable Battery with charging cable (Min. 12 V) 1 year manufacturing defects	



8)	Jet Aerator	Any			
	Make and model	Floating			
	Type	1.5-2 KW			
	Power Required	More than 0.82kg (O2)Kw/h			
	Power efficiency	more than 0.7-1 kg(o2)/h			
	Oxygen Transfer Rate	80 db(A)			
	Noise	Minimum 35-40 kg			
	Weight	1280*740*900mm			
	Size				
9)	Straw Reaper	Any			
	Make and model	Tractor 45 hp above			
	Power Sources	Universal telescopic shaft			
	PTO drive shaft	Spring tynes bar pick up reels			
	Reel	450 to 590 without spikes			
	Diameter of reel MM	1980 to 2030			
	Width of reel MM	min of 1800			
	Cutter bar width MM	Serrated			
	cutter bar blade	Screw/ helical			
	Feed Auger	Pentagonal			
	Beater	scerrated blades mounted on a cylinders			
	Bruising drum	490mm (min)			
	Diameter of drum	240 pics(min)			
	No of blades	750 to 1000rpm			
	Speed of Drum	perforated			
	Concave	Reciprocating			
	Cleaning Sieve	Rectangle			
	Grain Reservoir	Two or three blower per machine			
	Straw Blower	MS curved cylinder			
	Straw outlet	Two ribbed tyres			
	Transport Wheel	1 year manufacturing defects			
	Warranty				

470



10)	Minitiller				
	Make and model	Any			
	Engine Type	4 stroke			
	Cylinder	Single Cylinder, Air cooled			
	Horse power	7hp (5.2 kw)			
	Displacements	296mm			
	Rated RPM	3000			
	Bore * stroke	78*62			
	Engine oil	3.5 litres (15w40 grade)			
	Transmission	Combination of constant and sliding Mesh gear			
	Speed	3(2 Forward and 1 Reverse)			
	PTO drive	Yes			
	Tilling depth	100mm above			
	Tilling width	1050mm above			
	No of rotary blades	24			
	Start	Recoiling			
	Warranty	1 year manufacturing defects			
11)	PH Meter				
	Make and model	Any			
	Type	Pen Type PH Meter			
	Range	0.00 - 14PH			
	Resolution	0.01 PH			
	Accuracy	0.1 PH			
	Battery	4*1.5V			
	Temperature	0C to 50C			
	Dimension(mm)	151*33*20			
	weight	53 g			
	Alkalinity	8 to 14			
	Neutrality	7			
	Probe	PH electrode			

12)	Power operated Sprayer				
	Make and model	Any			
	Type	Back Pack			
	Engine	4 stoke 5.5 hp petrol			
	Engine RPM	3600 with load			
	Pump Type	Diaphragm			
	Displacement	79.7 cm ³			
	Suction volume	13.5 to 20 lit/hr			
	working pressure	0 - 40 kg/cm ²			
	Hose Pipe	100 mtr(8.5 mm 5 layers) with joints			
	Suction Hose pipe	5 meters			
	Sprayer Gun with 3 Types of Nozzels	Hollow , Flats and Normal			
Warranty	1 year manufacturing defects				
13)	Tractor operated Reaper				
	Make and model	Any			
	Type	Front Mount/ Back mounted			
	Power System	a) Front mounted on tractors and connected to PTO through shaft, pulley and belt. Operating RPM of PTO should be 540 b) Back Mounting on tractors and connected to PTO Shaft for harvesting with hydraulic lifting. Operating RPM of PTO should be 540			
	Power Range	Tractors from 35 hp and above			
	Capacity	3-6 acre /hr			
	Working width	2000mm			
	Cutting Blade	3mm			
	No stars	7 stars with crop divider			
	No of conveyer	3			
	weight	190kg			
	Stubble height	25mm			
Warranty	1 year manufacturing defects				



14)	Cultivator	Make and model Type Source of power length width height No of tine Working Width Under Frame clearance Capacity Ha/h Type of Shovels Diameter of spring wire No of coil in spring No of spring per tine Warranty	Any spring loaded tractor 1960-3000 mm 970 - 1560 mm 1070-1350 mm 9 to 13 2100 -3000 mm 450 -550 mm 0.35 to 0.5 Reversible shoe 9.5 mm 28 2 1 year manufacturing defects														
15)	5 hp diesel engine water pump (Horizontal type)	Make and model Type Rate Power Compression ratio Rate B.H.P Rate RPM Bore *stroke (mm) Pump type Suction and Discharge Diameter Water Head L.P.S Max Suction lift	5 Hp diesel Engine water pump horizontal type 3 Kw 21:01 5 Hp 2600 80*80 Centrifugal water pump 80*80 9.6 meter 18 L/meter 8 L/meter														



16)	5 hp diesel engine water pump (Vertical type)							
	Make and model		Any					
	Type		5 Hp diesel Engine water pump vertical type					
	Rate Power		3.7 Kw					
	Compression ratio		18.5:1					
	Rate B.H.P		5 Hp (3.7kw)					
	Rate speed		1500 rpm					
	Bore *stroke (mm)		87.5*80 mm					
	Pump type		Centrifugal water pump					
	Suction and Discharge Diameter		80*80					
	Water Head		13.5 meter					
	L.P.S		24 L/S					
Max Suction lift		10 L/meter						
17)	3 hp electric motor pump							
	Make and model		Any					
	Type		3hp electric motor pump					
	Pump type		centrifugal pump					
	Rated Power		2.5 kw					
	Material		Cast Iron					
	Discharge pressure		1.3 kg					
	Source of power		Electric AC					
	Frequency		50 Hz					
	Phage		Single / double					
	Voltage		210 single and 415 double					
	Max head		30 meter					
Rpm		2500						
Discharge flow rate		13.5 LPS						
Suction and Discharge Diameter		80* 80 mm						

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18)	Tractor Operated Chaff Cutter	
Make and Model	Any	
Type	Tractor operated	
Lower Frame(Bottom chasis channel)	made from 125*65*5 mm m.s channel approx. 2100 mm length	
Cutting assembly	min. 4 nos. feeding roller and mouth size not less than 275 mm	
Feeding mechanism	conveyor type	
Fly wheel	ms iron made with diameter near about 825 mm	
Cutting blades	4 nos. adjustable to 2&3 cutting blade carbon steel made, thickness 2.5 mm	
Gear box	3 forward and one reverse and lubricating in all rotating parts and gear chain is covered with 1.6 mm iron sheet	
Bearing and pedestal	at least 3 nos. pedestal in main shaft and 2 nos. in lower pully	
Balance wheel	cast iron made	
Driven pulley	3 grip pulley made from cast iron	
Cutting capacity	both green and dry chaff. Dry chaff capacity range: 2000-2500 kg/hr and green chaff : 2500-3000kg/hr	
Chaff cutting size	not more than 5-10mm	
Rated speed	540 rpm/1000rpm	
linkage	tractor's trolley hook	
Safety guard/cover	all moveable parts covered by standard thickness ms sheet	
Weight	appro. 950 kg	
Warranty	At least one year of manufacturing defects	

19)	Round straw Baler					
	Make and model	Any				
	Type	Round				
	Bale Diameter	110-130 cm				
	Bale Width	110-130 cm				
	Pick-Up working Width	150 cm				
	Pick-up and Door Control	Hydraulic				
	Tractor Power	55 above				
	Transmission	Chain Type				
	Power Transmission	PTO				
	P.T.O Shaft	Shear Bolt Type				
	Binder Control	Electric				
	Warranty	1 year manufacturing defects				
20)	Cono weeder					
	Make and model	Any				
	Type	walking Rotors type, manually operated				
	Length	Min. 1500 mm				
	Normal width	194 mm				
	Working width	125 mm				
	Height	1120 mm				
	Width	500mm				
	Handle Type	T type				
	No. of Rotors	2				
	Weight	6-7 kg				
	Capacity	Minimum 0.18 ha/day				
	Warranty	1 year manufacturing defects				
21)	Fish Feeder Machine					
	Make and model					
	Type	Box Type Fish feeder				
	Rated Power	70 -80 Kw				
	Speed	more than 1400RPM				
	Feed Box Capacity	Min. 50kg				
	Feed throwing distance	2- 12 above m				
	Fan Alignments	Adjustable 80 - 100 degree				
	Feeding Capacity	At least 150 Kg/h				
	Feed Damage Rate	less than 5%				

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22)	Riger		Any	
	Make and model		Tractor drawn Riger, 3 point linkage	
	Types		2000 to 2500 mm	
	Length		2000 mm	
	Width		1100 mm	
	Height		300 to 500 mm above	
	Wingsspan adjustment		2 to 5	
	No of base		adjustable 610 to 1000 mm	
	Row spacing		min 233 kg	
	Weight		50 hp tractor and above	
	Required power		2 to 4 ha /day	
	Capacity			
	23)	Leveler		Any
Make and model			Mounted types Leveler	
Type			2200mm	
Length			1000mm	
Width			900 mm	
Height			2230*90*9 mm	
Size of Blade (L*W*H)			50 Hp above	
Power Required			3 to 5 Ha/day	
Capacity			1 year manufacturing defects	
Warranty				
24)		Disc Plough		Any
		Make and model		Reversible Types
		Types		2 to 4
	Number of Furrows		600 to 800 mm	
	Disc Size		2362 mm	
	Length		1194 mm	
	Width		1120 mm	
	Height		200 to 300 mm	
	Width of cut per disc		600 to 1200 mm	
	Adjustable Working Width		300 mm	
	working width		50 hp above	
	Power required		1 year manufacturing defects	
	Warranty			



25)	Combine mill								
	Make and model		Any						
	Type		Combine mill						
	Match Power		2.2kw (3HP)						
	Rated Voltage		220 v						
	Phase		Single						
	Motor Speed		2800 RPM						
	Main Shaft spindle speed		1600 RPM Milling and 4800 RPM crushing						
	Productivity (kg/hr)		180 kg milling and 250 kg crushing						
	Hammar Spice Number of crush		12						
	Warranty		1 year manufacturing defects						
26)	Trolley								
	Make and model		Any						
	Types		2 wheel plain /hydraulic tractor trolley						
	Body Size (feet)		Less or equal to 10*6*2'						
	Disc		Double plate						
	Tire Size		9.00 *20						
	Flooring		5mm Iron sheet						
27)	Paddy Weeder								
	Make and model		Any						
	Type		Self-propelled- Walk behind Machine.						
	Engine (prime mover)		4-stroke, Single cylinder						
	Engine capacity		1.5 hp and above.						
	Fuel type		Petrol						
	Weeding width		120mm to 200mm						
	row spacing		180mm to 300mm						
	No of Rotary		2						
	Weeding Unit		Provided with C or L-C type blade						
	No of blades/Flanges		3 or more						
	Warranty		1 year manufacturing defects						

28)	paddy thresher	Any			
	Make and model	Any			
	Type	Spike tooth paddy thresher			
	Threshing unit Diameter	543mm			
	Threshing unit length	1800mm			
	Concave type	semi cyndrical			
	Concave length	1430 mm			
	Sieve type	Oscillating			
	Sieve number	2			
	Blower Diameter	623 mm			
	Blower Fan and Blades	Centrifugal Types fan and 4 blades			
	Overall Dimension (L*W*H)mm	4175*1957*1890			
	Output Capacity	1.25Ton /hr			
	Warranty	1 year manufacturing defects			
29)	5 hp electric motor				
	Make and model	Any			
	Type	5 hp electric motor pump			
	Pump type	centrifugal pump			
	Rated Power	3.7 Kw			
	Material	Cast Iron			
	Discharge pressure	1.8 kg			
	Source of power	Electric AC			
	Frequency	50 Hz			
	Phage	Single / double			
	Voltage	210 single and 415 double			
	Max head	50 meter			
	Rpm	2800			
	Discharge flow rate	17.5 LPS			
	Suction and Discharge Diameter	80* 80 mm			

