



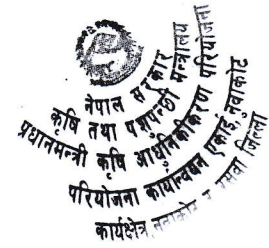
नेपाल सरकार

कृषि तथा पशुपंछी विकास मन्त्रालय

प्रधानमन्त्री कृषि आधुनिकीकरण परियोजना

परियोजना कार्यान्वयन एकाई, नुवाकोट

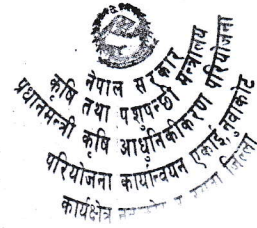
Technical Specification For Farm Machinery and Equipments



S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item	
1	MINI TILLER			
	Make, Model and Brand	any		
	Country of manufacturer	any		
	Engine	Electric/Recoil start, Single cylinder, 4-stroke diesel engine		
		gear T.S.		
		Power output 7HP		
	Tilling depth	minimum 100mm		
	No. of Gears	1,2,0,-1		
	Tilling width	Around 750 mm		
	Number of rotary tiller blades	minimum 24		
	Cooling system	forced air -cooled		
	Fuel Tank Capacity	Minimum 3.5 Liters		
	tyre size	4*8		
	Starting method	Manual		
	Certification	Respective country verified certification		
Color	Standard			
Accessories	Toolbox			
Warranty	Manufacturer shall provide warranty for at least one year for manufacturing defects			



2	MINI TILLER			
	Make, Model and Brand	any		
	Country of manufacturer	any		
	Engine	Electric/Recoil start ,Single cylinder, 4-stroke petrol engine		
		gear T.S.		
		Power output 7HP		
	Tilling depth	minimum 100mm		
	No. of Gears	1,2,0,-1		
	Tilling width	Around 750 mm		
	Number of rotary tiller blades	minimum 24		
	Cooling system	forced air -cooled		
	Fuel Tank Capacity	Minimum 3.5 Liters		
	tyre size	4*8		
	Starting method	Manual		
	Certification	Respective country verified certification		
Color	Standard			
Accessories	Toolbox			
Warranty	Manufacturer shall provide warranty for at least one year for manufacturing defects			





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S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Power Tiller		
	Make, Model and Brand	Any	
	Country of manufacturer	Any	
	Engine	Single cylinder, 4-stroke diesel engine Direct combustion type Specific fuel consumption around 244 g/kw.h Power output 12HP Air cleaner oil bath type	
	Clutch	Multiple plates, Dry disc	
	Brakes	Hand operated dry brakes	
	No. of Gears	Forward-6, Reverse-2 (With high-low selector lever)	
	Tilling width	Around 900 mm	
	Number of rotary tiller blades	minimum 24	
	8. Ground Clearance	minimum 185 mm	
	Cooling system	Water or condense cooled	
	Fuel Tank Capacity	Minimum 15 Liters	
	Lubrication System	Combined pressure and splashing type	
	Minimum turning radius	1.3 meter	
	Starting method	Manual or Electric	
	Certification	Respective country verified certification	
	Color	Standard	
	Accessories	Toolbox	
	Warranty	Manufacturer shall provide warranty for at least one year for manufacturing defects	





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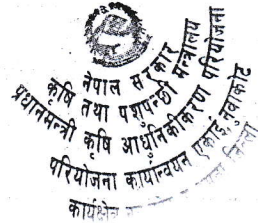
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Technical Specification For Farm Machinery and Equipments

S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Thresher		
	Type	4WD driven	
	Matching power	tractor above 35HP	
	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 hopper size(+5%)	670mm*595mm*680mm	
	Threshing drum	cylindrical rotor type in u shaped channel	
	Maximum RPM	750-800	
	No of sieves	3	
	No. of blower	one/double/triple	
	No. of spike	75	
	Cleaning fan	1 aspiratory fan for grain clean and 1 centrifugal fan for dust clean	
	Overall dimension(+5%)	10'*4'*7'	
	Hopper height from platform	930-945mm	
	Weight(approx.)	1450-1550kg	
	Standard accessories	PTO shaft,tool box,greas gun	
Main shaft diameter	above 60mm		
No. of transmission joint	4		
Accessories	Toolbox		
Warranty	Manufacturer shall provide warranty for at least one year for manufacturing defects		





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S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Paddle thresher	Motor/ PTO operated /manual, motor power:0.5-2 HP, cylindrical drum, with user manuals	





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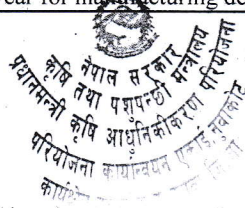
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S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Rotavator		
	Size	5' or 6'	
	Model	any	
	Country of manufactured	any	
	tractor power	>35 hp	
	gear box	single speed/ multispeed	
	Transmission	Gearbox system	
	PTO (RPM)	minmum 540/1000	
	Blade type	j,c and s type	
	No Of Blade	at least 540	
	Accessories	Toolbox	
Warranty	Manufacturer shall provide warranty for at least one year for manufacturing defects		





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S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Reaper (Power Tiller Drawn)		
	Make and Model (Brand)	Any	
	Country of manufacturer	Any	
	Power range	Power tiller of 12HP	
	Features	Paddy and wheat harvesting, front mounted conveyor reaper	
	Type of cutting table	Standing typed	
	Placing type	sidewise and banded placed	
	Cutting width	minimum 1200 mm	
	Cutting height	minimum 50 mm	
	Type of cutting Unit	Cutter bar with serrated V shaped blade	
	Crop divider	5 with star wheels	
	Certification	Respective country verified certification	
	Color	Standard	
	Warranty	Manufacturer shall provide warranty for at least one year for manufacturing defects	





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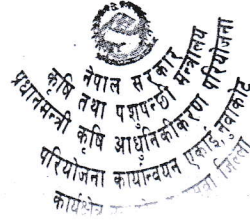
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S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Digital Balance	Digital display, weighing capacity at least 100 kg, non-corossive material, with user manuals	





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S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Battery sprayer		
	brand	any	
	Battery	12V8AH,2KG	
	Charger	1.0-1.2Amp	





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S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Chaff cutter		
	power source	electric motor	
	power	3-5 HP	
	no. of blades	2	
	No. of spare blades	atleast 2	
	machine feed	dry grass, fresh grass and straw	
	automation grade	automatic	
	cutting capacity	200-400kg/hr	
	material	iron	
Accessories	Toolbox		





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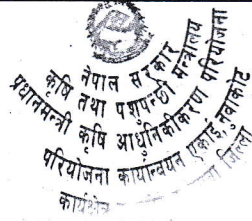
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S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Corn Sheller		
	Make and model	any	
	Power	at least 950 watt	
	Motor	Aluminium or copper	
	Capacity	1000-1500kg/hr	
	Shaft Speed	1680 r/min	
	Rotor Diameter	around 590mm	





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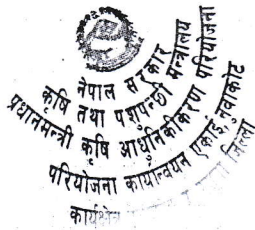
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Technical Specification For Farm Machinery and Equipments

S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Combined mill		
	Make and model	any	
	Power Source	at least 3HP	
	Motor	100% copper	
	voltage and frequency of motor	220volt,50Hz	
	Seive size	at least 100*749mm	
	Seive Diameter	at least 250mm	
	Capacity	Rice mill: at least150kg/hr	
		Grain grinder: at least 130kg/hr	
	Roller Speed	Rice mill-at least 1500rev/min	
		Grain Grinder-5500rev/min	
Roller Diameter: rice mill	40mm		
Types	Disc/Hammer types		





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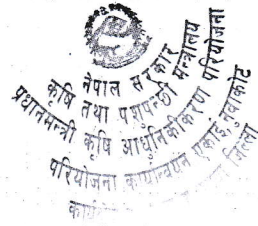
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Technical Specification For Farm Machinery and Equipments

S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Reaper (Mini Tiller Drawn)		
	Make and Model (Brand)	Any	
	Country of manufacturer	Any	
	Power	Mini tiller of 7HP	
	Features	Paddy and wheat harvesting, front mounted conveyor reaper	
	Type of cutting table	Standing typed	
	Placing type	sidewise and banded placed	
	Cutting width	minimum 1000 mm	
	Cutting height	minimum 50 mm	
	Type of cutting Unit	Cutter bar with serrated V shaped blade	
	Crop divider	4 with star wheels	
	Certification	Respective country verified certification	
	Color	Standard	
	Warranty	Manufacturer shall provide warranty for at least one year for manufacturing defects	





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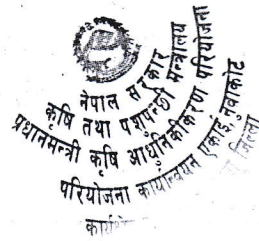
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Technical Specification For Farm Machinery and Equipments

S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Pellet Machine		
	Brand	Any	
	Useage	Domestic	
	operation	Powered	
	Power Source	Electric Motor	
	Power	4KW-5.5 KW	
		Copper motor	
	Volatge	220v/380v	
	Supply Phase	Single	
Capacity	at least 60 kg/hr		





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Technical Specification For Farm Machinery and Equipments

S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Land leveler		
	Make and Model (Brand)	Any	
	Country of manufacturer	Any	
	Working Width	minimum 1850 mm	
	Power Required	40-50HP	
	Approx. Weight	minimum 140kg	
	Working Width	minimum 1800mm	
	Main frame	minimum 8 mm Sheet 75 x 40 mm Channel	
	Side support	minimum 8mm	
	Blade height	minimum 75 mm	
	Blade Thickness	minimum 10 mm	
	Accessories	Toolbox	

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Technical Specification For Farm Machinery and Equipments

S.N.	Name of Implements With Description	Technical Specification	Specification of proposed item
1	Walk-behind rice transplanter		
	Make, Model and Brand	any	
	Country of manufacturer	any	
	Engine type	any	
	Engine Power	at least 2.6/3000 Kw/rpm	
	type	Air cooling four-stroke	
	Working lines	4/6 lines	
	Working speed	0.34-0.77 m/s	
	Line distance	180-330mm	
	seeding depth	15-35mm	
	Working capacity	0.10-0.2 arce/ hour	
	paddy wheel	rubber wheel	
	drive style	shaft drive transmission	
	Transplanting structure	crank rocker structure	
	Certification	Respective country verified certification	
Color	Standard		
Accessories	Toolbox		
Warranty	Manufacturer shall provide warranty for at least one year for manufacturing defects		

