



नेपाल सरकार

कृषि तथा पशुपन्छी विकास मन्त्रालय

राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम

कार्यक्रम कार्यान्वयन एकाइ, कास्की



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कृषि यान्त्रिकरण सम्बन्धित सामग्रीहरू

आ.व. २०८२/८३

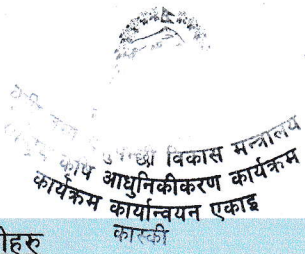
S. N.	Name of Farm machinery & Equipments	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
1	Mini Tiller (suitable for multipurpose farm work)	Mini tiller not less than 3.6kw $\pm$ 0.2Kw capacity with manual or electric start, having 4 stroke Petrol engine with air cooled cooling system, A set of rotary rotavator/cultivators attached having minimum of 24 blades and covering minimum of 800-900 mm tilling width and minimum of 100 mm tilling depth, Gear and chain system power transmission with manual shifting of 1- reverse, 2-forward, Gross weight must not be less than 80kg.	Make and Model: Country of Origin: Proposed Specification: Offered Services if any Stock Quantity in number			उपकरणको फोटो, उपकरणको specification खुल्ने catalogs, leaflets आदि समेत पेज गर्नुपर्नेछ।
		Mini tiller not less than 4.0kw $\pm$ 0.2Kw capacity with manual or electric start, having 4 stroke Petrol engine with air cooled cooling system, A set of rotary rotavator/cultivators attached having minimum of 32 blades and covering minimum of 1000 mm tilling width and minimum of 100 mm tilling depth, Gear and chain system power transmission with manual shifting of 1- reverse, 2-forward, Gross weight must not be less than 110kg	Country of Origin: Proposed Specification Offered Services if any Stock Quantity in number			
		Mini tiller not less than 3.6kw $\pm$ 0.2Kw capacity with manual or electric start, having 4 stroke Diesel engine with air cooled cooling system, A set of rotary rotavator/cultivators attached having minimum of 24 blades and covering minimum of 800-900 mm tilling width and minimum of 100 mm tilling depth, Gear and chain system power transmission with manual shifting of 1- reverse, 2-forward, Gross weight must not be less than 90kg.	Make and Model: Country of Origin: Proposed Specification Offered Services if any			
		Mini tiller not less than 4.2kw $\pm$ 0.2Kw capacity with manual or electric start, having 4 stroke Diesel engine with air cooled cooling system, A set of rotary rotavator/cultivators attached having minimum of 32 blades and covering minimum of 800-900 mm tilling width and minimum of 100 mm tilling depth, Gear and chain system power transmission with manual shifting of 1- reverse, 2-forward, Gross weight must not be less than 115kg.	Country of Origin: Proposed Specification Offered Services if any			
		Mini tiller not less than 6.0kw $\pm$ 0.2Kw capacity with manual or electric start, having 4 stroke Diesel engine with air cooled cooling system, A set of rotary rotavator/cultivators attached having minimum of 40 blades and covering minimum of 1000 mm tilling width and minimum of 100 mm tilling depth, Gear and chain system power transmission with manual shifting of 1- reverse, 2-forward, Gross weight must not be less than 140kg.	Make and Model: Country of Origin: Proposed Specification Offered Services if any			

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४०१ एमकेल्वर "क" वर्ग

धन बहादुर थापा मगर  
वरिष्ठ कृषि अधिकृत



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2	Power Tiller (suitable for multipurpose farm work)	Power tiller not less than 13.4 kw $\pm$ 0.2Kw capacity, having 4 stroke diesel engine and radiator/hopper water Cooling system, Minimum ground clearance 185 mm. Wheel track must be minimum 640mm with tillage width minimum 900mm and rotary blades 28 $\pm$ 4, Gear or belt system power transmission with manual shifting, 1- reverse, 3-forward (preferred both high and low) numbers of gears, fuel capacity 12 litre or above.	Make and Model			
			Country of Origin			
3	Portable Power Weeder	Power tiller not less than 15 kw $\pm$ 0.2Kw capacity, having 4 stroke diesel engine and radiator/hopper water Cooling system, Minimum ground clearance 185 mm. Wheel track must be minimum 640mm with tillage width minimum 900mm and rotary blades 28 $\pm$ 4, Gear or belt system power transmission with manual shifting, 1- reverse, 3-forward (preferred both high and low) numbers of gears, fuel capacity 12 litre or above.	Make and Model			
			Country of Origin			
4	Portable Power Sprayer	Portable Power Weeder of 4 stroke Petrol Engine not less than 2.2kw $\pm$ 0.2Kw capacity, overall cultivation width-adjustable or minimum 12 number of blades, Rated engine speed not less than 1200 RPM (preferred), power transmission gear type with forward gear arrangement. Gross weight must not be more than 40kg.	Make and Model			
			Country of Origin			
4	Portable Power Sprayer	4 stroke Petrol engine operated Portable Electric High Pressure Power Sprayer (no chemical tank) having power not less than 31cc or 0.8kw $\pm$ 0.1Kw, provided with minimum of 20m length high quality hose pipe with rolling arrangement, supported with spray lance and nozzle with vertical range above 6 mtr and flowrate not less than 5ltr/min	Make and Model			
			Country of Origin			
4	Portable Power Sprayer	Single phase Portable Electric High Pressure Power Sprayer having not less than 0.6Kw electric power, provided with minimum of 20m length high quality hose pipe with rolling arrangement, supported with spray lance and nozzle	Make and Model			
			Country of Origin			

उपलब्धको रोजी, उपलब्धको  
specification माथि  
catalogs, leaflets जति  
समेत भए सुनिन्छ ।

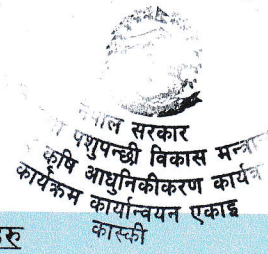
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5	Chain Saw	Chain saw 2 stroke Petrol Operated Bar length 18 inch to 24-inch, Power not less than 70 cc , minimum sound pressure level will be preferred	Make and Model Country of Origin Proposed Specification Offered Services if any		
6	Brush cutter	Brush Cutter 4 stroke Petrol Engine (Back pack/side pack) Power not less than 31cc , minimum 3T/40T/80T/nylon trimmer blade  Brush Cutter 2 stroke Petrol Engine (Back pack/side pack) Power 40cc up to 55cc, minimum 3T/40T/80T/nylon trimmer blade	Make and Model Country of Origin : Proposed Specification Offered Services if any  Make and Model Country of Origin Proposed Specification Offered Services if any		
7	Petrol water Pump	Petrol water Pump of self-priming with 2-inch to 3-inch outlet and inlet, minimum 5 hp engine power, suction head not less than 7mtr and delivery head not less than 20 mtr.	Make and Model Country of Origin Proposed Specification Offered Services if any		
8	Battery cum manual Sprayer (2in1)	2 in 1 manual cum Battery operated knapsack sprayer Battery-12V, 8A or 12V 12A, Working Pressure-0.10 to 0.45 megapascal, Volume not less than 16-liter, Trigger Type brass is preferred	Make and Model : Country of Origin: Proposed Specification: Offered Services if any		
9	Pit Digger/Earth Auger	Petrol engine,Single cylinder 2-4 stroke, capacity 1.2-2 kw, 8"-12" MS drill bit, fuel tank capacity not less than 0.5 litre	Make and Model Country of Origin Proposed Specification Offered Services if any		

उपरोक्तको फोटो, उपकरणको  
specification कुनै  
catalogs, leaflets अदि  
समेत देन बुझ्नेछ ।

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डॉ. अर्जुन गौतम  
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10	Digital Weighing Machine	Digital Weighing Machine of Capacity 50 kg Loaded with Rechargeable Battery, <b>Large LED Display</b> on Top that can be read easily, material Stainless Steel (preferred), High Precision Load Cell, Auto calibration facility with standard weigh	Make and Model: Honda			
			Country of Origin :			
			Proposed Specification			
			Offered Services if any:			
		Digital Weighing Machine of Capacity 100 kg. Loaded with Rechargeable Battery, <b>Large LED Display</b> on Top that can be read easily, material Stainless Steel (preferred), High Precision Load Cell, Auto calibration facility with standard weigh	Make and Model			
			Country of Origin			
			Proposed Specification:			
			Offered Services if any:			

Manufacture company or suppliers strictly provided engine rated power of power tiller and mini tiller in " Kw " this should be mentioned in both catalogue and Instruments otherwise these company and suppliers or materials should be disqualified or rejected.

Tools:-A set of tools as required for general maintenance shall be supplied.

Warranty:-Manufacturer shall provide at least one year of warranty.

Delivery:- All items must be delivered to locations within Pokhara Valley.

Stocks:-Must be capable of meeting required demand quantities.

Initial Service:-The supplier shall provide all the necessary filters, engine oil, gear oil and spare parts required for the operations of machine.

Training:- For all the farm machinery training for Operator and General maintenance training shall be provided by suppliers

Installation and Commissioning:-Supplier must accomplish proper installation and commissioning on site.

\*The major items are indicated by bold and highlighted letters/alphabets/figures in the technical specifications.

Prepared By

*[Signature]*

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Approved By

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S.N.	Name of Farm machinery & Equipments	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
1	Continuous Band sealer	Main body made up of stainless steel with sealing mode in centre and in 3 side, can sealed Polyethylene (PE), Polypropylene (PP) and Laminations with motorized rubber conveyer with speed control capable of speed up to 12 mtr/min and customizable, horizontal module having conveyer height 110mm-254mm, motor capacity 600 to 1500 watt, single phase 220V/50Hz electric operated with temperature range from 0 to 300 deg.celsius	Make and Model Country of Origin Proposed Specification Offered Services if any Stock Quantity in number			
2	Impulse Band sealer	Main body made up of stainless steel with sealing width 3 to 5mm and length 8 to 12 inch can sealed Polyethylene (PE), Polypropylene (PP) horizontal module motor capacity 500 to 900 watt, single phase 220V/50Hz electric operated with temperature range from 0 to 300 deg.celsius	Make and Model Make and Model Country of Origin Proposed Specification Offered Services if any Stock Quantity in number			
3	Combined Rice Mill	Combined Rice Mill must remove paddy husk, whitening rice, crush rice bran at one time, it must attached with alloy-steel roller that the rice has low breakage after processed, body material: High quality steel, Capacity: rice mill not less than 80Kg/hr, pulverizer not less than 150kg/hr, Mill type: Disc/Hammer, Motor speed:2900R/M, Motor Power: 2.2kw ± 0.2 kw, single phase, 50 Hz with 100% copper wire binding motor, milled rate not less than 75%, must be applicable in both milling of cereals such as rice, wheat, millet etc.	Make and Model Country of Origin Proposed Specification Offered Services if any Stock Quantity in number			
4	Milk Can	Hygenic Food grade approved, Milk cans must made caring hygienic point of view giving mirror polish, SS 304 Milk Can, 20/30/40 Ltr Capacity, weight not less than 7kg	Make and Model: Country of Origin: Proposed Specification: Offered Services if any Stock Quantity in number			
5	Cow Mat	Heavy duty interlocking or non interlocking high quality rubber cow mat having Size 6*4 feet and 6.5*4 feet, thickness not less than 17mm, weight not less than 36kg	Make and Model Country of Origin Proposed Specification Offered Services if any Stock Quantity in number			

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## पोस्ट हार्भेस्ट तथा डेरी यान्त्रिकरण सम्बन्धित सामग्रीहरू

आ.व. २०८२/८३

S.N.	Name of Farm machinery & Equipments	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
6	Chaff Cutter	Conveying type electric chaff cutter having <b>Single phase high quality electric motor</b> , power output not less than <b>2.2 ±0.2 kw</b> electric motor with 220V, spindle speed not less than 900 rpm, shall fully equipped with accessories for efficient full load operation of chaff cutter along with <b>safety features</b> , <b>number of blade at least 2</b> , mild steel frame structure, <b>capacity not less than 350 kg/h</b> , can be used for green grass, straw	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			
7	Milk Analyser	Functions: <b>Display Fat, Solids-not-Fats(SNF)</b> , added, water, added additives, Measurement Parameters: a) Fat Range: 0-10% Resolution: 0.1% Accuracy: ±0.1% (b) SNF Range: 4-10% Resolution: 0.2% Accuracy: 0.2% (c) Added Water Range: 0-100% Resolution: 0.1% Accuracy: ±0.1%, Measuring Time: 30 seconds or less, <b>Milk Sample: 25ml or less</b> , <b>Display: 2 line 20 character</b> , Operating Voltage 220-240 V, single Phase, 50 Hz, DC input 12V, Software: Software for automatic collection of information from analyzer and weighing Scale, multi windows running, saving data, prepare farmer's milk procurement and other accounting transactions, Software: Software for automatic collection of information from analyzer and weighing Scale, multi windows running, saving data, prepare farmer's milk procurement and other accounting transactions	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			उपलब्धताको बारेमा, उपलब्धताको specification गर्ने catalogue, leaflets आदि खाने पत्र भर्नुपर्नेछ।
8	Chilling Vat 500 Ltr	Cooling Capacity: <b>500 ltrs of milk from 35°C to 4°C in 4 hours time</b> , Material of Fabrication: SS 304 Grade, Thickness of SS Sheet: a) <b>Inner Thickness 1.5-2mm</b> b) <b>Outer Thickness 1.2-1.6 mm</b> Shape of Chilling Vat: Rectangular/Circular/Elliptical, Electric <b>Supply Single or Three Phase</b> with Agitator 28-40 Rpm with motor, gear box, SS shaft and blades, Insulation 75mm or more thick PUF insulation, temperature increase <2°C/24 hr, Outlet Valve: 1.5 inch(38mm), <b>Butterfly Valve</b> , Cover for Chilling Vat: SS Cover Cooling System: Direct expansion Type Refrigerant: R404a/134a/407c, Compressor: at least 2 ton Capacity, <b>1 number hermetic compressor</b> , <b>Condenser: Air cooled Condenser with expansion Valve, Filter</b> Dryer, liquid receiver, etc., Evaporator/Cooling unit: Dimple plate type, Control Panel: Dust and Moisture proof Tank/Wall mounted electronic control panel, Manual and Auto mode operation, MCB, Contractors, Overload Relays, electronic thermostat with indicator, HPLP switch, etc., Milk Volume Measurement: At least 20-25 lit graduation SS dip stick	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			

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S.N.	Name of Farm machinery & Equipments	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
9	Chilling Vat 1000 Ltr	Cooling Capacity: 1000 ltrs of milk from 35°C to 4°C in 4 hours time, Material of Fabrication: SS 304 Grade, Thickness of SS Sheet: a) Inner Thickness 1.5-2mm b) Outer Thickness 1.2-1.6 mm Shape of Chilling Vat: Rectangular/Circular/Elleptical, Electric Supply Single or Three Phase with Agitator 28-40 Rpm with motor, gear box, SS shaft and blades, Insulation 75mm or more thick PUF insulation, temperature increase <2°C/24 hr, Outlet Valve: 1.5 inch(38mm), Butterfly Valve, Cover for Chilling Vat: SS Cover Cooling System: Direct expansion Type Refrigerant: R404a/134a/407c, Compressor: at least 2 ton Capacity, 2 number hermetic compressor, Condenser: Air cooled Condenser with expansion Valve, Filter Dryer, liquid receiver, etc., Evaporator/Cooling unit: Dimple plate type, Control Panel: Dust and Moisture proof Tank/Wall mounted electronic control panel, Manual and Auto mode operation, MCB, Contractors, Overload Relays, electronic thermostat with indicator, HPLP switch, etc., Milk Volume Measurement: At least 20-25 lit graduation SS dip stick	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			
10	Wheel barrow	One wheeled, wheel barrow having two handles and one container, unbreakable iron body, durable metal frame, wheel constructed of mild steel disk type fitted with pneumatic tyres used for variety of things such as disposing manure, fertilizers etc.	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			
11	Animal Feed Pellet Machine	Feed pellet machine having 100% copper binded electric motor with power not less than 2.2kw ± 0.2 kw, single phase, operation mode: semi automatic hammer mill type, Build Material: robust CI/ MS build body, capacity not less than 50kg/hr, output pellet size: 2mm to 6mm provided with required number of die (minimum of 2 No.)	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			
12	Milking Machine (Single Bucket)	Milking machine single bucket having power not less than 0.8kw ± 0.2 kw, single phase, pneumatic (air-driven) pulsator with vacuum speed minimum of 150L/min having efficient and continuous vacuum operation, capacity and weight of stainless steel tank with size must be minimum 25 litre and 3 kg weight, milk claw (cluster) with minimum of 280cc with plastic cover compatible with standard teat cup liners for cow and buffalo, built material SS304 or food grade, output capacity must be more than 2L/min., suitable for small to medium dairy farms and be used for cow and buffalo.	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			

Dr. Arjun Goutam  
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प्र.प. एग्रीकल्चर "क" वर्ग

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S.N.	Name of Farm machinery & Equipments	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
13	Milking Machine (Double Bucket)	Milking machine double bucket having power not less than 0.7kw $\pm$ 0.2 kw, single phase, pneumatic (air-driven) pulsator with vacuum speed minimum of 100L/min having efficient and continuous vacuum operation, capacity and weight of stainless steel tank with size must be minimum 25 litre @ each and 3 kg @ each weight, milk claw (cluster) with minimum of 280cc with plastic cover compatible with standard teat cup liners for cow and buffalo, built material SS304 or food grade, output capacity must be more than 2L/min., suitable for small to medium dairy farms and be used for cow and buffalo.	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			
14	Deep Freeze (D-Freeze)	Deep Freeze having capacity approx 200-250 ltr gross, must have auto cut off system with glass sliding chest freezer having single or double door, copper coil material with refrigerant R600a/R134a or any CFC free, inner cabinet made up of Aluminium/SS/PP layer running from single phase electric supply, minimum 1 year warranty on other parts and 5 years on compressor.	Make and Model  Country of Origin  Proposed Specification  Offered Services if any			
15	Deep Freeze (D-Freeze)	Deep Freeze having capacity approx 300-350 ltr gross, must have auto cut off system with glass sliding chest freezer having single or double door, copper coil material with refrigerant R600a/R134a or any CFC free, inner cabinet made up of Aluminium/SS/PP layer running from single phase electric supply, minimum 1 year warranty on other parts and 5 years on compressor.	Make and Model  Country of Origin  Proposed Specification  Offered Services if any			
16	Deep Freeze (D-Freeze)	Deep Freeze having capacity approx 500-540 ltr gross, must have auto cut off system with glass sliding chest freezer having single or double door, copper coil material with refrigerant R600a/R134a or any CFC free, inner cabinet made up of Aluminium/SS/PP layer running from single phase electric supply, minimum 1 year warranty on other parts and 5 years on compressor.	Make and Model  Country of Origin  Proposed Specification  Offered Services if any			
17	Deep Freeze (D-Freeze)	Deep Freeze having capacity approx 550-600 ltr gross, must have auto cut off system with glass sliding chest freezer having single or double door, copper coil material with refrigerant R600a/R134a or any CFC free, inner cabinet made up of Aluminium/SS/PP layer running from single phase electric supply, minimum 1 year warranty on other parts and 5 years on compressor.	Make and Model  Country of Origin  Proposed Specification  Offered Services if any			

डॉ. अर्जुन गौतम  
कृषि इन्जिनियर  
४०५ एमकल्वर "क" वर्ग

धन बहादुर थापा मगर  
कृषि तथा पशुपन्छी विकास मन्त्रालय





नेपाल सरकार  
कृषि तथा पशुपन्छी विकास मन्त्रालय  
राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम  
कार्यक्रम कार्यान्वयन एकाइ, कास्की



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कार्यक्रम कार्यान्वयन एकाइ, कास्की

## पोस्ट हार्भेस्ट तथा डेरी यान्त्रिकरण सम्बन्धित सामग्रीहरू

आ.व. २०८२/८३

S.N.	Name of Farm machinery & Equipments	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
18	Cow lifting Machine	<b>Mechanical or hydraulic Cow lifter machine</b> suitable for assisting downer or injured cows and buffaloes, designed for safe lifting and supporting the animal in standing position for treatment and recovery, Power requirement (if motorized): <b>Not less than 0.5 kW <math>\pm</math> 0.1 kW</b> , single phase, 220–240 V, 50 Hz (optional manual/hydraulic operation acceptable), lifting capacity: Minimum <b>800–1000 kg</b> live animal weight, Lifting height: Adjustable, minimum <b>300–500 mm</b> , suitable for different body sizes of cow and buffalo, Frame material: Heavy-duty MS frame with corrosion-resistant coating or <b>SS304</b> in animal contact areas, Animal contact components: Soft padded belts, clamps, or support bars made of food-grade <b>rubber / nylon / leather</b> padding to prevent injury and ensure animal comfort, Adjustability: Width and height adjustable to suit different sizes of cow and buffalo with safety features: <b>Non-slip base or locking wheels</b> , Secure locking arrangement to prevent sudden drop, rounded edges to avoid animal injury, Provided with heavy-duty wheels/casters for easy movement inside dairy shed, Easy to operate by <b>one or two persons</b> with minimum physical effort	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			
19	Grass Cutting/Trimming Machine	Power Source: Rechargeable Lithium-ion battery not less than DC 10Ah, 24 V for cordless operation with removable type and fast charging. Motor / Performance: High-speed electric motor suitable for trimming grass and light brush cutting around gardens and outdoor areas Weight: Lightweight design Safety & Protection: Blade guard included for user protection during cutting operations Application: Designed for garden lawn maintenance, trimming grass around fences, trees, under shrubs, and light weed cutting in residential or small farm settings	Make and Model  Country of Origin  Proposed Specification  Offered Services if any  Stock Quantity in number			

Manufacture company or suppliers strictly provided engine rated power of power tiller and mini tiller in " Kw " this should be mentioned in both catalogue and Instruments otherwise these company and suppliers or materials should be disqualified or rejected.

Tools:-A set of tools as required for general maintenance shall be supplied.

Warranty:-Manufacturer shall provide at least one year of warranty.

Delivery:- All items must be delivered to locations within Pokhara Valley.

Stocks:-Must be capable of meeting required demand quantities.

Initial Service:-The supplier shall provide all the necessary filters, engine oil, gear oil and spare parts required for the operations of machine.

Training:- For All the farm machinery training for Operator and General maintenance training shall be provided by suppliers

Installation and Commissioning:-Supplier must accomplish proper installation and commissioning on site.

\*The major items are indicated by bold and highlighted letters/alphabets/figures in the technical specifications.

Prepared By

*[Signature]*

ड. अर्जुन मोतम  
कृषि इन्जिनियर  
४०५ एम्रीकल्वर "क" वर्ग

Approved By

*[Signature]*

धन बहादुर थापा मगर  
वरिष्ठ कृषि अधिकृत



नेपाल सरकार

कृषि तथा पशुपंछी विकास मन्त्रालय

राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम तथा पशुपंछी विकास मन्त्रालय  
कार्यक्रम कार्यान्वयन एकाइ, कास्की



## सिचाईका आवश्यक सामग्रीहरु

आ.व. २०८२/८३

S.N.	Items	Technical Specification	Capacity	Proposed Specification by Suppliers	Brand Name and country of manufacturing company	Rate (include vat for applicable items)	Rate in Word	Remarks
1	PVC Water Tank	Extra Heavy insulated polyethylene vertical water storage tanks, triple layer is preferred with proper covering, Confirming to Nepal standard or latest modifications. Additional inlet/outlets can be fitted if required.	200 litres					
			500 litres					
			1000 litres					
			1500 litres					
			2000 litres					
			3000 litres					
			5000 litres					
2	High Density Polyethylene (HDPE) Pipe confirming to Nepal Standard or latest modification	16	PN-16 (10Kg/cm <sup>2</sup> )	Not less than 0.09				उपकरणको फोटो, उपकरणको specification खुले catalogs, leaflets आदि समेत पेश गर्नुपर्नेछ।
		20	PN-16 (10Kg/cm <sup>2</sup> )	Not less than 0.13				
		25	PN-16 (10Kg/cm <sup>2</sup> )	Not less than 0.2				
		32	PN-6 (4Kg/cm <sup>2</sup> )	Not less than 0.22				
		32	PN-10 (6Kg/cm <sup>2</sup> )	Not less than 0.33				
		40	PN-6 (4Kg/cm <sup>2</sup> )	Not less than 0.25				
		40	PN-10 (6Kg/cm <sup>2</sup> )	Not less than 0.35				
		40	PN-16 (10Kg/cm <sup>2</sup> )	Not less than 0.5				
		50	PN-6 (4Kg/cm <sup>2</sup> )	Not less than 0.36				
		50	PN-10 (6Kg/cm <sup>2</sup> )	Not less than 0.54				
		50	PN-16 (10Kg/cm <sup>2</sup> )	Not less than 0.78				
		63	PN-6 (4Kg/cm <sup>2</sup> )	Not less than 0.57				
		63	PN-10 (6Kg/cm <sup>2</sup> )	Not less than 0.8				
		63	PN-16 (10Kg/cm <sup>2</sup> )	Not less than 1.2				
		75	PN-6 (4Kg/cm <sup>2</sup> )	Not less than 0.8				

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डॉ. अर्जुन गौतम  
कृषि इन्जिनियर  
"क" वर्ग

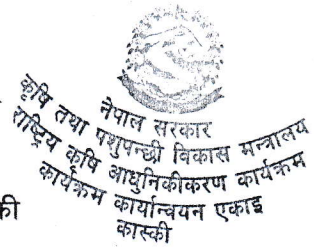
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धन बहादुर थापा मगर  
कृषि अधिकृत





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कृषि तथा पशुपन्छी विकास मन्त्रालय  
राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम  
कार्यक्रम कार्यान्वयन एकाइ, कास्की



## सिचाईका आवश्यक सामग्रीहरू

आ.व. २०८२/८३

S.N.	Items	Technical Specification	Capacity	Proposed Specification by Suppliers	Brand Name and country of manufacturing company	Rate (include vat for applicable items)	Rate in Word	Remarks
		75	PN-10 (6Kg/cm <sup>2</sup> )	Not less than 1.19				
		75	PN-16 (10Kg/cm <sup>2</sup> )	Not less than 1.78				
		90	PN-6 (4Kg/cm <sup>2</sup> )	Not less than 1.22				
		90	PN-10 (6Kg/cm <sup>2</sup> )	Not less than 1.7				
		90	PN-16 (10Kg/cm <sup>2</sup> )	Not less than 2.58				
		110	PN-6 (4Kg/cm <sup>2</sup> )	Not less than 1.7				
		110	PN-10 (6Kg/cm <sup>2</sup> )	Not less than 2.5				
		110	PN-16 (10Kg/cm <sup>2</sup> )	Not less than 3.8				
3	<b>Delivery Cotton Pipe</b>	2 inch						
		3 inch						
		4 inch						
4	<b>PVC Suction Hose Pipe (Hard)</b>	2 inch						
		3 inch						
		4 inch						

Delivery:- All items must be delivered to locations within Pokhara Valley.

Stocks:-Must be capable of meeting required demand quantities.

Training:- For All the farm machinery training for Operator and General maintenance training shall be provided by suppliers

Installation and Commissioning:-Supplier must accomplish proper installation and commissioning on site.

\*The major items are indicated by bold and highlighted letters/alphabets/figures in the technical specifications.

Prepared By

ई. अर्जुन गौतम  
कृषि इन्जिनियर  
४०५ एमकेचर "क" वर्ग

Approved By

धन बहादुर थापा मगर  
वरिष्ठ कृषि अधिकृत



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कृषि तथा पशुपंछी विकास मन्त्रालय  
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**प्लास्टिक घर निर्माण सम्बन्धित सामग्रीहरू**

S.N.	Agricultural Items	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
1	UV Plastic 200 micron	Greenhouse Polyethylene Plastic <b>UV stabilized</b> transparent film/diffused(50-80%) ( <b>200 microns</b> ) Anti-Drip, 5 or 7 layered, Super Strong, Anti Dust (Specify the weight and width of plastic sheet available along with lab certification)	Make and Model Country of Origin Proposed Specification Weight per sqm Offered Services if any Stock quantity -			
2	UV Plastic black and white	Polyethylene Plastic <b>UV stabilized</b> black and white film ( <b>200 microns</b> ) Anti-Drip, 5 or 7 layered, Super Strong, Anti Dust (Specify the weight and width of plastic sheet available along with lab certification)	Make and Model Country of Origin Proposed Specification Weight per sqm Offered Services if any Stock quantity -			
3	UV Plastic 100 micron	Greenhouse Polyethylene Plastic <b>UV stabilized</b> transparent film ( <b>100 microns</b> ) Anti-Drip, 5 or 7 layered, Super Strong, Anti Dust (Specify the weight and width of plastic sheet available along with lab certification)	Make and Model Country of Origin Proposed Specification Weight per sqm Offered Services if any Stock quantity -			
4	Plastic 120 GSM transparent	Greenhouse Polyethylene <b>120 GSM transparent Plastic Sheet with eyelocks</b> (Specify the weight and width of plastic sheet available along with lab certification)	Make and Model Country of Origin Proposed Specification Weight per sqf Offered Services if any Stock quantity -			

ड. अर्जुन गौतम  
कृषि इन्जिनियर  
४०५ एमकिल्वर "क" वर्ग

धन बहादुर थापा मगर  
वरिष्ठ कृषि अधिकृत





नेपाल सरकार

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राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम  
कार्यक्रम कार्यान्वयन एकाइ, कास्की



नेपाल सरकार  
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राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम  
कार्यक्रम कार्यान्वयन एकाइ, कास्की

आ.व. २०८२/८३

**प्लास्टिक घर निर्माण सम्बन्धित सामग्रीहरू**

5	Plastic 120 GSM black colour	Greenhouse Polyethylene <b>120 GSM black Plastic Sheet with eyelocks</b> (Specify the weight and width of plastic sheet available along with lab certification)	Make and Model Country of Origin Proposed Specification Weight per sqf Offered Services if any Stock quantity -			
6	Anti Insect Net	UV stabilized White Anti Insect net of mesh size 40, <b>not less than 70 GSM</b> , Non-corrosive, water vapor resistant(Specify the weight and width of net available)	Make and Model Country of Origin Proposed Specification Weight per sqm Offered Services if any Stock quantity -			
7	Anti Hail Net	UV stabilized High Density polyethylene (HDPE), transparent White Anti Hail net monofilament leno or rashed knitted type, comprehensive defence against dense hail condition, birds etc. <b>not less than 70 GSM</b> (Specify the weight and width of net available)	Make and Model Country of Origin Proposed Specification Weight per sqm Offered Services if any Stock quantity -			
8	Aluminum Profile	<b>PVC coated rust free Zigzag GI wire</b> with polyethylene coating thickness not less than 0.2 mm with 0.8 to 0.9 mm aluminum profile for Greenhouse structures	Make and Model Country of Origin Proposed Specification Offered Services if any Stock quantity -			
9	Mulching Plastic	Low Density Polyethylene (LDPE) UV stabilized mulching plastic sheet, thickness <b>not less than 40-micron</b> , colour of sheet white-black/silver-black (Specify the weight and width of net available)	Make and Model Country of Origin Proposed Specification Offered Services if any Stock quantity -			

डॉ. अर्जुन गौतम  
कृषि इन्जिनियर  
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राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम

कार्यक्रम कार्यान्वयन एकाइ, कास्की



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कार्यक्रम कार्यान्वयन एकाइ

कास्की

आ.व. २०८२/८३

**थोपा सिचाई(Drip Irrigation) तथा रेन पाइप (Rain hose pipe) जडान सम्बन्धित सामाग्रीहरु**

S.N.	Agricultural Items	Technical Specification (Size Range)	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
1	PVC pipe	50mm to 75mm				
2	GTO with rubber washer	16mm to 20mm				
3	Tape lock joiner	16mm to 20mm				
4	Poly tube	16mm to 20mm				
5	Inline Dripper pipe	16mm to 20 mm with variable spacing from 30cm to 60cm				
6	Emitter	2 litre/hour to 8 litre/hour				
7	Seal Tape					
8	Double lock joiner	16mm to 20mm				
9	Pvc valve / control valve	50mm to 75mm				
10	Flush valve pvc	50mm to 75mm				
11	Elbow pvc	50mm to 75mm				
12	Equal tee pvc	50mm to 75mm				
13	MTA pvc	50mm to 75mm				
14	FTA pvc	50mm to 75mm				
15	Perma Fix-Solvent Cement	litre				
16	Union pvc	50mm to 75mm				

इ. अर्जुन गौतम  
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"क" वर्ग

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कृषि अधिकृत





नेपाल सरकार

कृषि तथा पशुपंछी विकास मन्त्रालय

राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम

कार्यक्रम कार्यान्वयन एकाइ, कास्की



नेपाल सरकार  
कृषि तथा पशुपंछी विकास मन्त्रालय  
राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम  
कार्यक्रम कार्यान्वयन एकाइ  
कास्की

आ.व. २०८२/८३

## थोपा सिचाई (Drip Irrigation) तथा रेन पाइप (Rain hose pipe) जडान सम्बन्धित सामग्रीहरू

17	check valve Brass/PVC	50mm to 75mm				
18	Water Filter	Screen/hydrocyclone/sand filter/disc compatible with 50mm to 75mm pipe diameter				
19	Gi Nipple	1.5"*4" or usable size				
20	Ventury for fertigation	Set with compatible size				
21	Manifold PVC	50mm to 75mm				
22	Air release valve	32mm to 75mm				
23	End Cap	50mm to 75mm				
24	Coupler	50mm to 75mm				
25	Installation charge per 500 sqm (aprox 1 ropani )					

### Rain Hose Pipe

1	Rainpipe	20mm to 32mm				
2	Ball valve	20mm to 32mm				
3	Rainport MTA	20mm to 32mm				
4	Rainport Joiner	20mm to 32mm				
5	Rainport End cap	20mm to 32mm				
6	PT sleeve	20mm to 32mm				
7	Service saddle	20mm to 50mm				
8	Installation charge per 500 sqm (aprox 1 ropani )					

Delivery:- All items must be delivered to locations within Pokhara Valley.

Stocks:-Must be capable of meeting required demand quantities.

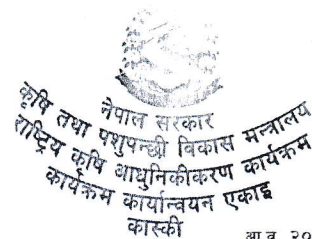
Training:- For All the farm machinery training for Operator and General maintenance training shall be provided by

डॉ. अर्जुन गौतम  
मुख्य इन्जिनियर  
कृषि विकास "क" वर्ग

श्रीमान श्याम मगर  
मुख्य इन्जिनियर  
कृषि विकास "क" वर्ग



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राष्ट्रिय कृषि आधुनिकीकरण कार्यक्रम  
कार्यक्रम कार्यान्वयन एकाइ, कास्की



आ.व. २०८२/८३

कृषि उपकरण सम्बन्धित सामग्रीहरू

S.N.	Name of Farm machinery & Equipments	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
1	Rotavator (Tractor Drawn)	more than 35 HP Tractor Drawn Rotavator with overall <b>tilling width not less than 5 feet</b> made up of heavy duty frame, PTO Rpm 540/1000 rpm, Number of blades not less than 32 (or most available), main types of blade L/C/J shape, Hitching 3-point linkage, required multi speed gear box with gear type transmission system	Make and Model Country of Origin Proposed Specification Offered Services if any Stock Quantity in number			
2	Cultivator	more than 35 HP Tractor Drawn spring tynes cultivator with overall <b>tilling width not less than 5 feet</b> made up of heavy duty frame, Number of tynes not less than 9 (or most available), tyne type reversible shovel type, Hitching 3-point linkage	Make and Model Country of Origin Proposed Specification Offered Services if any Stock Quantity in number			उत्पन्नकर्ताको फोटो, उपकरणको specification खुल्ने catalogs, leaflets यदि उपलब्ध भएमा गर्नुपर्नेछ ।
3	Manual seeder for vegetable	<b>manually row to row distance adjustable</b> , minimum of 150 grams per seed box , seed rate can be controlled manually, Light in weight, easy handling and repairing, mostly designed for onion, beetroot, carrot, raddish, coriander etc., should cover the land after seeding, most provide all the tools and disc required, arrangement for seed depth adjustment, minimum of 4 rows	Make and Model: Modiant Country of Origin: India Proposed Specification: Offered Services if any Stock Quantity in number			

Manufacture company or suppliers strictly provided engine rated power of power tiller and mini tiller in " Kw " this should be mentioned in both catalogue and Instruments otherwise these company and suppliers or materials should be disqualified or rejected.

Tools:-A set of tools as required for general maintenance shall be supplied.

Warranty:-Manufacturer shall provide at least one year of warranty.

Delivery:- All items must be delivered to locations within Pokhara Valley.

Stocks:-Must be capable of meeting required demand quantities.

Initial Service:-The supplier shall provide all the necessary filters, engine oil, gear oil and spare parts required for the operations of machine.

Training:- For All the farm machinery training for Operator and General maintenance training shall be provided by suppliers

Installation and Commissioning:-Supplier must accomplish proper installation and commissioning on site.

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इ. अर्जुन गौतम  
कृषि इन्जिनियर  
कृषि विभाग "क" वर्ग

Approved By  
धन बहादुर थापा मगर  
वरिष्ठ कृषि अधिकृत