



नेपाल सरकार
कृषि तथा पशुपंछी विकास मन्त्रालय
प्रधानमन्त्री कृषि आधुनिकीकरण परियोजना
परियोजना कार्यान्वयन एकाइ, कास्की



कृषि यान्त्रिकरण सम्बन्धित सामग्रीहरू

आ.व. २०८०/८१

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 4.4kw ± 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, Verified engine test report should be provided	Make and Model Country of Origin Proposed Specification Offered Services if any			उपकरणको फोटो, उपकरणको specification खुल्ने catalogs, leaflets आदि समेत पेश गर्नुपर्नेछ।
		Mini tiller not less than 6kw ± 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, Verified engine test report should be provided	Make and Model Country of Origin Proposed Specification Offered Services if any			
		Mini tiller not less than 3.7kw ± 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	Make and Model Country of Origin Proposed Specification Offered Services if any			
		Mini tiller not less than 4.4kw ± 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, Verified engine test report should be provided	Make and Model Country of Origin Proposed Specification Offered Services if any			
		Mini tiller not less than 6kw ± 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 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, Verified engine test report should be provided	Make and Model Country of Origin Proposed Specification Offered Services if any			



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कृषि यान्त्रिकरण सम्बन्धित सामग्रीहरु

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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
2	Power Tiller (suitable for multipurpose farm work)	Power tiller not less than 13.4 kw ± 0.2Kw capacity , having 4 stroke diesel engine and radiator/hopper water Cooling system, Minimum ground clearance 185 mm . A set of rotary tiller / cultivators attached having minimum of 24 blades and covering minimum of 800-900 mm tilling width, Gear and chain system power transmission with manual shifting, 1- reverse, 3-forward (both high and low) numbers of gears, Verified engine test report should be provided	Make and Model Country of Origin Proposed Specification Offered Services if any			
		Power tiller not less than 15 kw ± 0.2Kw capacity , having 4 stroke diesel engine and radiator/hopper water Cooling system, Minimum ground clearance 185 mm . A set of rotary tiller / cultivators attached having minimum of 24 blades and covering minimum of 800-900 mm tilling width, Gear and chain system power transmission with manual shifting, 1- reverse, 3-forward (both high and low) numbers of gears, Verified engine test report should be provided	Make and Model Country of Origin Proposed Specification Offered Services if any			
3	Power Weeder	Power Weeder of 4 stroke Petrol Engine not less than 2.2kw ± 0.2Kw or 50cc capacity , overall cultivation width-adjustable or (300-600), Rated engine speed not less than 1000 RPM (preferred) , power transmission gear type with forward gear arrangement, Verified engine test report should be provided	Make and Model Country of Origin Proposed Specification Offered Services if any			उपकरणको फोटो, उपकरणको specification खुल्ने catalogs, leaflets आदि समेत पेश गर्नुपर्नेछ ।
		Power Weeder of 2 stroke Petrol Engine not less than 1.5kw ± 0.2Kw capacity , overall cultivation width-adjustable or (600-900), Rated engine speed 3600 RPM (preferred) , power transmission with manual shifting of 1- reverse, 2-forward, Verified engine test report should be provided	Make and Model Country of Origin Proposed Specification Offered Services if any			
4	Portable Electric Power Sprayer	Single phase Portable Electric High Pressure Power Sprayer having not less than 1Kw electric power , 1400 rpm provided with minimum of 50m length high quality hose pipe with rolling arrangement , recommended working pressure of 1.5-2.5 Mpa supported with spray lance and nozzle	Make and Model Country of Origin Proposed Specification Offered Services if any			
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			

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कृषि यान्त्रिकरण सम्बन्धित सामग्रीहरू

आ.व. २०८०/८१

S.N.	Name of Farm machinery & Equipments	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
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	Make and Model Country of Origin Proposed Specification Offered Services if any			
		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			
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			उपकरणको फोटो, उपकरणको specification भुल्ने catalogs, leaflets आदि समेत पेश गर्नुपर्नेछ।
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	Digital Weighing Machine	Digital Weighing Machine of Capacity 50 kg Loaded with Rechargeable Battery, Large LED Display 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			
		Digital Weighing Machine of Capacity 100 kg , Loaded with Rechargeable Battery, Large LED Display 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.

Initial Service:-The supplier shall provide all the necessary filters and spare parts required for the first services, after the machinery has been accepted.

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

Certification :- Lab certificate regarding machineries power with respected country verified certification must be provided by suppliers.

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

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Page: 3

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नेपाल सरकार
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आ.व. २०८०/८१

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 tilling width not less than 5 feet 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			
2	Cultivator	more than 35 HP Tractor Drawn spring tynes cultivator with overall tilling width not less than 5 feet 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			उपकरणको फोटो, उपकरणको specification खुल्ने catalogs, leaflets आदि समेत पेश गर्नुपर्नेछ ।
3	Manual seeder for vegetable	manually row to row distance adjustable, 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 6 rows	Make and Model Country of Origin Proposed Specification Offered Services if any			

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

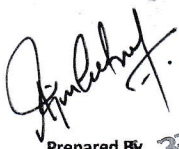
Warranty:-Manufacturer shall provide at least one year of warranty.

Initial Service:-The supplier shall provide all the necessary filters and spare parts required for the first services, after the machinery has been accepted.

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

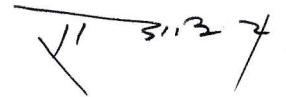
Certification :- Lab certificate regarding machineries power with respected country verified certification must be provided by suppliers.

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



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Page: ५



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नेपाल सरकार

कृषि तथा पशुपंछी विकास मन्त्रालय
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आ.व. २०८०/८१

प्लास्टिक घर निर्माण सम्बन्धित सामग्रीहरु

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 UV stabilized transparent film/diffused(50-80%) (200 microns) 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			
2	UV Plastic black and white	Polyethylene Plastic UV stabilized black and white film (200 microns) 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			
3	UV Plastic 100 micron	Greenhouse Polyethylene Plastic UV stabilized transparent film (100 microns) 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			
4	Plastic 120 GSM transparent	Greenhouse Polyethylene 120 GSM transparent Plastic Sheet with eyelocks (Specify the weight and width of plastic sheet available along with lab certification)	Make and Model Country of Origin Proposed Specification Weight Offered Services if any			
5	Plastic 120 GSM black colour	Greenhouse Polyethylene 120 GSM black Plastic Sheet with eyelocks (Specify the weight and width of plastic sheet available along with lab certification)	Make and Model Country of Origin Proposed Specification Weight Offered Services if any			

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Page: 5

११/३/३७
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नेपाल सरकार
कृषि तथा पशुपंछी विकास मन्त्रालय
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आ.व. २०८०/८१

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
6	Anti Insect Net	UV stabilized White Anti Insect net of mesh size 40, not less than 70 GSM , 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			
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. not less than 70 GSM (Specify the weight and width of net available)	Make and Model Country of Origin Proposed Specification Weight per sqm - Offered Services if any			
8	Aluminum Profile	PVC coated rust free Zigzag GI wire 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			
9	Mulching Plastic	Low Density Polyethylene (LDPE) UV stabilized mulching plastic sheet, thickness not less than 40-micron , colour of sheet white-black/silver-black (Specify the weight and width of net available)	Make and Model Country of Origin Proposed Specification Weight per sqm - Offered Services if any			
10	Shade Net	HDPE Shade Net with (50% to 80%) shading capacity with weight not less than 90 GSM, Green in colour, preferred if UV protected. (Specify the weight and width of plastic sheet available)	Make and Model Country of Origin Proposed Specification Weight per sqm - Offered Services if any			

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Page: 6

११ ३१३ ७
रोशन अधिकारी
वरिष्ठ कृषि अधिकृत



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आ.व. २०८०/८१

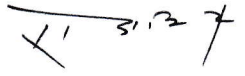
प्लास्टिक घर निर्माण सम्बन्धित सामग्रीहरू

S.N.	Agricultural Items	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
11	Plastic 250 GSM	High Density Polyethylene (HDPE) 250 GSM Plastic Sheet for Plastic Pond with standard blue colour (Specify the weight and width of plastic sheet available)	Make and Model Country of Origin Proposed Specification Weight per sqm - Offered Services if any			

Certification :- Lab certificate of all above items with respected country verified certification are required.

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


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आ.व. २०८०/८१

थोपा सिचाई जडान सम्बन्धित सामग्रीहरू

S.N.	Agricultural Items	Technical Specification	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	Pvc valve / control valve	50mm to 75mm				
8	Flush valve pvc	50mm to 75mm				
9	Elbow pvc	50mm to 75mm				
10	Equal tee pvc	50mm to 75mm				
11	MTA pvc	50mm to 75mm				
12	FTA pvc	50mm to 75mm				
13	Perma Fix-Solvent Cement	litre				
14	Union pvc	50mm to 75mm				
15	check valve Brass/PVC	50mm to 75mm				
16	Water Filter	Screen/hydrocyclone/sand filter/disc compatible with 50mm to 75mm pipe diameter				

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S.N.	Agricultural Items	Technical Specification	Proposed Specification by Suppliers	Rate (include vat for applicable items)	Rate in Word	Remarks
17	Gi Nipple	1.5"*4" or usable size				
18	Ventury for fertigation	Set with compatible size				
19	Manifold PVC	50mm to 75mm				
20	Air release valve	32mm to 75mm				
21	End Cap	50mm to 75mm				
22	Coupler	50mm to 75mm				

Certification :- Lab certificate of all above items with respected country verified certification are required.

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सिचाईका आवश्यक सामग्रीहरू

आ.व. २०८०/८१

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 and triple layer is preferred. 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					
S.N.	Items	Pipe Size Outside diameter (OD) in mm 32mm(OD)=1inch	Pressure As of NS standard based on PE 100	Weight kg/ metre	Brand Name and country of manufacturing company	Rate (include vat for applicable items)	Rate in Word	Remarks
2	High Density Polyethylene (HDPE) Pipe confirming to Nepal Standard or latest modification	16	PN-16 (10Kg/cm ²)	Not less than 0.09				
		20	PN-16 (10Kg/cm ²)	Not less than 0.13				
		25	PN-16 (10Kg/cm ²)	Not less than 0.2				
		32	PN-6 (4Kg/cm ²)	Not less than 0.22				
		32	PN-10 (6Kg/cm ²)	Not less than 0.33				
		40	PN-6 (4Kg/cm ²)	Not less than 0.25				
		40	PN-10 (6Kg/cm ²)	Not less than 0.35				
		40	PN-16 (10Kg/cm ²)	Not less than 0.5				
		50	PN-6 (4Kg/cm ²)	Not less than 0.36				
		50	PN-10 (6Kg/cm ²)	Not less than 0.54				
		50	PN-16 (10Kg/cm ²)	Not less than 0.78				
		63	PN-6 (4Kg/cm ²)	Not less than 0.57				
		63	PN-10 (6Kg/cm ²)	Not less than 0.8				
63	PN-16 (10Kg/cm ²)	Not less than 1.2						

उपकरणको फोटो, उपकरणको specification खुल्ने catalogs, leaflets आदि समेत पेश गर्नुपर्नेछ ।

Signature

सिचाई

११/३/१३



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आ.व. २०८०/८१

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
	ion	75	PN-6 (4Kg/cm ²)	Not less than 0.8				
		75	PN-10 (6Kg/cm ²)	Not less than 1.19				
		75	PN-16 (10Kg/cm ²)	Not less than 1.78				
		90	PN-6 (4Kg/cm ²)	Not less than 1.22				
		90	PN-10 (6Kg/cm ²)	Not less than 1.7				
		90	PN-16 (10Kg/cm ²)	Not less than 2.58				
		110	PN-6 (4Kg/cm ²)	Not less than 1.7				
		110	PN-10 (6Kg/cm ²)	Not less than 2.5				
		110	PN-16 (10Kg/cm ²)	Not less than 3.8				
3	Delivery Cotton Pipe	2 inch						
		3 inch						
		4 inch						
4	PVC Suction Hose Pipe (Hard)	2 inch						
		3 inch						
		4 inch						

Certificates or standards: Lab certificate or standards of pvc drum and HDPE pipe must be provided by suppliers.

Prepared By
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