

खैरहनी नगरपालिका
नगरकार्यपालिकाको कार्यालय, चितवन
क्याटलग/ब्रोसर विधिबाट मेशिनरी यन्त्र/उपकरण खरिद गर्ने सम्बन्धी कार्यको सूची दर्ता गर्ने बारेको

सूचना

मिति २०७५ जेष्ठ ९ गते

खैरहनी नगरपालिका चितवन ले देहाय बमोजिमको यन्त्र/उपकरण सार्वजनिक खरिद ऐन २०६३ (प्रथम संशोधन २०७३) को दफा ८ को उप दफा १(क ८) तथा सार्वजनिक खरिद नियमावली २०६४(चौथो संशोधन) को नियम ३१(ख) बमोजिम त्यस्तो मेशिनरी यन्त्र/उपकरण उत्पादक वा सो को आधिकारीक विक्रेताहरु (नेपाल सरकारको सम्बन्धित नियबाट अनुमति प्राप्त) बीच मात्र प्रतिस्पर्धा गराउने (क्याटलग सपिड) विधिबाट खरिद गर्नुपर्ने भएकोले सार्वजनिक खरिद नियमावली २०६४ को नियम ३१(ख) को उपनियम २ अनुसार उक्त यन्त्र/उपकरण विक्री गर्न चाहने उत्पादक वा आधिकारीकि बिक्रेताले नेपाल सरकारको सम्बन्धित निकायबाट कारोवार गर्ने गरी प्राप्त भएको अद्यावधिक अनुमती पत्र चाहने पत्र, मूल्य अभिवृद्धि कर दर्ता प्रमाणपत्र, उत्पादनको आधिकारीक स्पेसिफिकेशन, मूल्य, गुणस्तर तथा सुविधा सहितको विवरण संलग्न राखी यो सूचना प्रकाशित भएका मितिले १० औं दिन १२ बजे सम्म यस खैरहनी नगरपालिकामा सुचिकृत हुनका लागि आफुले प्रस्ताव गरेको मूल्य समेत खुलाइ छुट्टाछुट्टै खाममा शिलवन्दी गरी निवेदन पेश गर्न सम्बन्धित उत्पादक वा आधिकारिक बिक्रेताहरुको जानकारीको लागि यो सूचना प्रकाशित गरिएको छ । प्राप्त शिलवन्दी दरखास्त १० औं दिनको २ बजे यसै कार्यालयमा खोलिने (सार्वजनिक विदा परेमा वाहेक) र पेश भएका दरखास्त उपर छानबिन गरी सूचिकृत गर्ने नगर्ने अधिकार यस नगर कार्यपालिकाको कार्यालयमा निहीत रहनेछ । यन्त्र/उपकरण को संक्षिप्त विवरण तपसिल बमोजिम भएको र बिस्तृत स्पेसिफिकेशन नगरपालिकाको www.khairahanimun.gov.np मा हेर्न वा यस कार्यालयमा कार्यालय समयमा सम्पर्क गरी जानकारी लिन सकिनेछ ।

सि.न.	यन्त्र/उपकरणको नाम	संक्षिप्त विवरण	कैफियत
१	Firefighting Vehicle of 3500 – 4000 liter water tank with 500 liter Foam Tank – 1 Nos Contract ID no.: 012/MF/CHT- KMun/NCB/2075-076	Engine vlume between 3500 cc to 4000 cc, developing rated power output not less than 120 Hp, Minimum torque not less 415 N-m at rated RPM	संक्षिप्त विवरण उल्लेख नभएका कुराहरु स्विकृत Technical Specification बमोजिम हुनेछ।

प्रमुख प्रशासकीय अधिकृत

Bidder's Signature..... Date.....

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Technical Specifications

Fighting Fire Vehicle of 3500-4000 liter water tank with 500 liter Foam Tank

1. Unit

1 S.N.	CRITERIA	REQUIREMENT	OFFERED SPECIFICATION
1	General	The Fire fighting vehicle of capacity 3500-4000 liters water tank and 500 liter foam tank capacity water tender as per IS: 950 shall be designed and manufacture. All material used in fabrication construction of the vehicle shall be new as per International standard	Make: Model: Mfg. year:- Country of Origin:
2	Engine	Four Stroke four cylinder water cooled diesel Engine with turbocharger having Engine volume between 3500 cc to 4000 CC, developing rated Power output not less than 120 HP, minimum torque not less than 415 N-m at rated RPM with an efficient fuel injection system having precisely control air fuel ratio for high efficiency in response to all loads and operating conditions. The Engine shall be fully equipped with all necessary items/ accessories and controlling devices for safe, smooth, efficient, economical operation and optimizing vehicle performance producing lesser amount of pollutant emission.	Make: Model: Mfg. year:- Country of Origin:
3	Water Tank	Water tank shall be of 3500-4000 liters water and 500 liter foam tank capacity suitably mounted on the chassis after the cabin so as allow full contents to flow to the pump. The tank shall be fabricated with MS plate having bottom sheet not less than 5 mm thickness and other sheet of minimum 4 mm thickness suitably epoxy coated from inside. The tank shall be of sound welded construction & shall be fitted with suitable baffle plates not less than 3 mm thickness. An inspection hole of not less than 450 mm size shall be provided on top and other necessary arrangement as per standards.	
4	Pump	Centrifugal Fire Pump CE marked or Equivalent capable of delivering water not less than 2250LPM at discharge pressure of 7kg/cm² and suction lift of 3mts. The suction inlet shall minimum 100 mm round threaded type and minimum 2X63 mm delivery outlets with GM valves having female instantaneous coupling. The	

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		pump shall be rear mounted for ensuring max. Hydraulic efficiency when working from open water.	
5	Prime	The pump shall be fitted with reciprocating type. Prime shall be capable of lifting water from 7 meter at a rate not less than 30 cm/sec.	

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6	Cooling System	Indirect cooling system of open circuit type consisting of special heat exchanger shall be provided to the vehicle to enable full power outlet to be maintained during pumping without overheating and hot water is discharged to waste.	
7	Power Take Off (PTO)	The Power Take Off would be heavy duty indigenous origin of VAS Make Model V3N Mechanically & Pneumatically controlled having ratio 1:1.27 and the lever for engaging the power take off shall be provided in the Driver's cabin.	
8	Monitor	One water cum Foam Monitor of 1400LPM @7 kg/cm ² capacity will be provided on top of the tender in such a manner that a member of fire crew can operate it mutually. The monitor will be capable of traversing through 360° in a horizontal plane. Elevating from horizontal to 45° & depressing from horizontal to not less than 15° and will be capable of projecting the foam discharge to an effective to an effective distance of not less than 35 mtrs. in still air when operated at the design pressure.	
9	Chassis	The tender shall be fabricated on truck/tipper chassis of appropriate size. Drag hook or eye of adequate strength shall be provided at the rear and front.	
10	Hose Reel	2 Nos 60 m X 19 mm hose shall be provided near the control panel.	
11	Ladder Gallows	Gallows to carry 7.5 mtrs. Extension ladder would be provided on the appliance.	
12	Dry Chemical Powder	2 X 25 kg. each DCP cylinders with Hose Reel shall be provided.	
13	Stability	Fully laden vehicle shall be tested for stability test at 27.5 degree and the vehicle shall not topple down. Gradient test shall be carried out at 1:4.	
14	Control Panel & Instruments	Control Panel & Instruments as necessary for efficient operation and maintenance such as Throttle control, Pressure Gauge, Compound gauge, primer control, cooling water control, Delivery valves, Water level indicator, Suction mouth, Pump to Hose reel control, Tank to pump control	
15	Gradibilty	Not less than 22 %	
16	GVW	Not less than 13000 ±5% kg, Chassis wheel base between 3900mm to 4250mm	

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17	Ground Clearance	Maximum 230 mm	
18	Cab	The front compartment of driver's cabin shall all steel construction with insulated roof, right hand drive, laminated glass windscreen, wipers, glass windows on doors, and shall be provided with two independent foam cushioned seated for driver and an officer. Driver's seat shall be adjustable. Rear compartment should be provided with fixed cushioned seat for at least 5 crew men.	
19	Essential Accessories	<p>The following accessories shall be supplied / fitted on the appliance.</p> <ul style="list-style-type: none"> • Head light, tail and rear light and turn signals • Cabin lights • Spare wheel with tire and tube • Fog light at front • Fire Bell <p>Additional equipments/Accessories as per Accessories/Equipments List.</p>	
20	Clutch	Heavy duty disc type	
21	Transmission	Manual shift at least five forward and one reverse, All forward synchromesh	
22	Emission Standard	The Emission Standard of the vehicle should comply with the Vehicle Mass Emission Standard of Nepal.	
23	Suspension	Heavy duty semi elliptical leaf springs and shock absorbers	
24	Tires	Standard Size, Single front, Dual rear	
25	Steering	Power Assisted/ Power Steering	
26	Brakes	Servo assisted Hydraulic or air operated internal expanding type and mechanical parking brake and engine exhaust brake.	
27	Color	Painted in fire red with proper under coating.	
28	Axles	Front: Steel I Section Rear: Heavy duty, Fully Floating	
29	Instructions	All signs and instructions in the equipment shall be in English	
30	Manuals	One copy of the Operator's and Owner's Instructions and Maintenance manual in English shall be supplied with each equipment/vehicle	

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31	Proven performance	1. The tender offered shall be a current model under standard production by the manufacturer for at least one year. 2. The bidder shall provide the manufacturer's data of the performance of the unit to include the fuel consumption, performance curve of the engine and production capacity of the unit.	
32	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	

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33	Related Service	The supplier shall arrange and conduct training at own cost for two operators for a period of one week in Nepal in operation, maintenance and /or repair of the equipment	
34	Delivery	1.Unit Fire Fighting Vehicle of 3500-4000 liter water tank with 500 liter Foam Tank with accessories shall be Delivered to Khairhani Municipality Chitwan Nepal.	

Note:

The major items are indicated by bold and highlighted letters/alphabets/figures in the technical specifications. Non-compliance of these major items will result in non-responsiveness of the bid offered.

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ACCESSORIES / EQUIPMENT LIST

S.No.	Description	Unit	Qty	Comply/non comply	Remarks
1.	Extension Ladder 10.5M (Trussed type double extension)	No	1		
2.	Armored Rubber Suction Hoses 100mm dia. 25 Meters Length fitted with round threaded male and female coupling Heavy duty, made of copper alloy of 100mm size.	Nos.	4		
3.	Non Percolating 63mm × 15 meters flexible fire fighting delivery hose of three layered synthetic jacketed, with elastomeric outer covering, resistant to liquids, chemicals, acids alkalis, solvents, abrasions & heat, having 42kg/cm ² burst pressure and bonded with gun metal ISI Marked & MMD approved instantaneous male and female coupling	Nos.	10		
4.	Suction Metal Strainer – 100mm size	Nos.	1		
5.	Basket Strainer – 100mm size cylindrical	No.	1		
6.	Dividing Breaching with Control Valve made of light alloy	No.	1		
7.	Collecting Breaching -63mm size made of light alloy	No.	1		
8.	Suction wrenches for 100mm suction couplings Universal types	Pair	1		
9.	Long line 50 mm circumference 30 meters long each	Length	1		
10.	Short line 50mm circumference 15 m long	Length	1		
11.	Hose Bandages rubberized	Nos.	10		
12.	Hose Clamps	Nos.	2		
13.	Hydrant Valve Key and Bar	Set	1		
14.	Fog Nozzle made of gunmetal with extension applicator with fog head	No.	1		
15.	Hand Controlled Branch Pipe- 63 mm made of gunmetal	No.	1		
16.	Gunmetal Branch Pipe, Universal 63mm size	No.	1		
17.	Gunmetal Branch Pipe with Revolving Head	No.	1		
18.	Gunmetal short branch pipe complete with 63 mm size male instantaneous connection with gunmetal detachable nozzle	Nos.	2		
19.	Gunmetal nozzle if sizes 12 mm, 16mm, 20mm, 25 mm and 32 mm (two each)	Nos.	10		
	Adaptor for 100mm suction female screw coupling and 63 mm male instantaneous	Nos.	2		

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	Adaptor double female instantaneous pater 63 mm	Nos.	2		
	Adaptor double male instantaneous pater 63mm	Nos.	2		

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20	Nozzle spanner	Nos.	2		
21	Portable electric lamp with rechargeable accumulator	Nos.	2		
22	Hydrant Stand Pipe two ways	No.	1		
23	Flame proof lamp	Nos.	2		
24	Self contained Breathing Apparatus Set with 45 min duration of 300 bar pressure	No.	1		
25	First Aid Box of 12 Person	No.	1		
26	Rubber Gloves (in case)	Pair.	1		
27	Asbestos gauntlets (in case)	No.	1		
28	Axe-Large	No.	1		
29	Spade	No.	1		
30	Pick Axe	No.	1		
31	Crow Bar	No.	1		
32	Sledge Hammer	No.	1		
33	Carpenter's saw	No.	1		
34	20 Ton capacity Hydraulic Jack	No.	1		
35	Fire Hook	No.	1		
36	Tool Kit	No.	1		
37	ABC Multipurpose type Fire Extinguisher, 2 kg Capacity	No.	1		
38	Lowering line 50mm lamp, 40m long having two ends spliced in and bend with a running nose	No.	1		
39	Fire Fighter Suit, complete set (fire suit, helmet, gloves and boot) certification: BS/EN/CE or equivalent	No.	4set		
40	portable fire fighting pump	No.	1		

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Specification of Portable fire fighting pump

Required specification		offered specification
Pump	high pressure one stage turbine pump	Make: Model: Country of Origin:
Prime performance	minimum 3.5 seconds	
Discharge performance	0568L/min at 0.5 MPa, 1 m suction head. 318L/min at 0.8MPa, 1 m suction head. priming performance 3.5 seco. at 1m suction head	
Displacement	minimum 200cc	
Max. output	13kw/18ps	
Minimum Rated output	8.8kW/12 ps	
Fuel tank capacity	Minimum 4 liter	
Fuel consumption	minimum 5.4 L	
Dry weight	maximum 44 kg	
Authorization	Authorization letter from Manufacturers company is compulsory. without authorization letter bid will be disqualified	
Documents	Must submit product brochure, performance curve of pump and outline drawing	

Note:

The major items are indicated by bold and highlighted letters/alphabets/figures in the technical specifications. Non-compliance of these major items will result in non-responsiveness of the bid offered.

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Khairahani Municipality Office

Khairahani, Chitwan

Nepal

Bill of Quantity

Project -Supply & Delivery of Brand New Fire Fighting Vehicle of 3500-4000 liter water tank with 500 liter Foam Tank

Address - Khairahani Municipality - 10, Chitwan, Nepal

Estimated Amount : NRs. 5800000.00 Without VAT

Contract Identification no.: 012/MF/CHT-KMun/NCB/2075-076

Sn	Description of work	Units	Quantity	Rate (NRs.)		Total (NRs.)	Remarks
				In Fig.	In word		
1	Supply & Delivery of Brand New Fire Fighting Vehicle of 3500-4000 liter water tank with 500 liter Foam Tank having Engine volume between 3500 cc to 4000 CC, developing rated Power output not less than 120 HP, minimum torque not less than 415 N-m at rated RPM and Pump Centrifugal Fire Pump CE marked or Equivalent capable of delivering water not less than 2250LPM at discharge pressure of 7kg/cm ² as per specification with other requires accessories approval of department all complete	Unit	1.00				
Total Cost							
VAT @ 13%							
Grand total							

Total in Words:

Firm's Name:

Address:

Authorize signature & Date:

Seal:

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