

BIDDING DOCUMENT

For the Procurement Of Fire Fighter

**National Competitive Bidding (NCB)
IFB No. BM/NCB/2076/77-29**

Bansgadhi Municipality

Bansgadhi, Bardiya





बाँसगढी नगरपालिका
नगर कार्यपालिकाको कार्यालय
बाँसगढी, बर्दिया
५ नं. प्रदेश, नेपाल।

दमकल खरिद गर्ने सम्बन्धी सुचना
(प्रथम पटक प्रकाशित मिति: २०७७/०१/२९)

यस कार्यालय र बढैयाताल गाउँपालिकाको संयुक्त निर्णय अनुसार दुबै पालिकालाई आवश्यक पर्ने तपसिल अनुसारको १ (एक) थान दमकल सार्वजनिक खरिद ऐन, २०६३ (पहिलो संशोधन) २०७३ को दफा ८ को उपदफा (१) (क) (८) तथा सार्वजनिक खरिद नियमावली, २०६४ (चौथो संशोधन २०७३) को नियम ३१ ख बमोजिम त्यस्तो दमकल उत्पादक (Manufacturer) कम्पनी वा सो को आधिकारिक बिक्रेता (Importer) हरु बिच मात्र प्रतिस्पर्धा गराउने (क्याटलक सपिड) बिधिबाट खरिद गर्नुपर्ने भएकोले सार्वजनिक खरिद नियमावली, २०६४ को नियम ३१ ख को उपनियम २ अनुसार देहाय बमोजिमको दमकल बिक्री गर्न चाहने उत्पादक (Manufacturer) तथा आधिकारिक बिक्रेता (Importer) हरुले तपसिलमा उल्लेखित कागजात सहित यो सुचना प्रकाशित भएको मितिले ७ (सात) दिन भित्र यस कार्यालयमा निवेदन दर्ता गर्न हुन सम्बन्धित उत्पादक (Manufacturer) वा आधिकारिक बिक्रेता (Importer) हरुको जानकारीको लागि यो सुचना प्रकाशित गरिएको छ। विस्तृत स्पेशिफिकेसनको लागि यस कार्यालयको Website: www.bansgadhimun.gov.np र बढैयाताल गाउँपालिकाको Website: www.badhaiyatalmun.gov.np बाट डाउनलोड गर्न सकिने छ।

प्रस्तावदाताले पेश गर्नुपर्ने आवश्यक कागजातहरू

१. नविकरण गरेको फर्म वा कम्पनी दर्ता प्रमाण पत्रको प्रतिलिपी
२. मूल्य अभिवृद्धि कर (VAT) दर्ता प्रमाण पत्रको प्रतिलिपी
३. आ. व. २०७५/०७६ को कर चुक्ता प्रमाण पत्र वा म्याद थप भएको प्रमाण
४. खरिद कारवाहीमा नपरेको स्व: घोषणा पत्र
५. Technical Specification प्रमाणित गर्ने रंगिन ब्रोसर (Catalogue)
६. आफ्नो मालसामानको बजार मूल्य प्रमाणित गर्ने कागजात (पत्रिकामा प्रकाशित भएको वा कम्पनीको लेटर प्याडमा आधिकारीक व्यक्तिले सहिछाप गरी प्रमाणित गरेको कागजात)
७. Warranty तथा Guarantee सम्बन्धी कागजातहरू
८. यस कार्यालयलाई सम्बोधन गरी लेखिएको सम्बन्धित उत्पादकको वा नेपालमा रहेको आधिकारिक बिक्रेताले प्रदान गरेको Manufacturer's Authorization Letter
९. कार्यालयबाट जारी भएको Technical Specification भरी पेश गर्नुपर्नेछ।

आवश्यक दमकलको विवरण

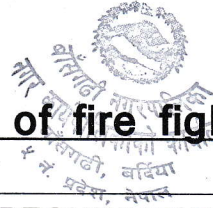
Package	Type of Vehicle	Requirement (General Specification)	Required Quantity
1.	Fire Fighter	Fire Fighter: Water Tank capacity 4000+500 Ltrs., Vehicle: Right hand Drive 4x2, Water Cooled Diesel Engine, Power output not less than 120 HP, Torque at least 400 Nm@ rated RPM, with all necessary accessories as per Technical Specification. Delivery mail: bansgadhimun@gmail.com Delivery place: Bansgadhi Municipality, Bansgadhi, Bardiya.	1 (One)

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Technical specification of fire fighter



S.N.	CRITEREA	OFFICIAL REQUIRMENTS	OFFER SPECIFICATION
1	General	The Fire fighting vehicle of capacity 5,500 liters shall be designed and manufacture as per standards and sound engineering practice with advance & additional feature. All material used in fabrication / construction of the vehicle shall be new as per international standards.	<i>Make:</i> <i>Model:</i> <i>Country of Origin:</i>
2	Engine	Water cooled diesel Engine, developing rated Power output not less than 130 BHP & Torque not less than 400 Nm 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 pollutive emissions.	<i>Make:</i> <i>Model:</i> <i>Power Output:</i> <i>Torque:</i>
3	Water Tank	Water tank shall be of 5,500 liters capacity suitably mounted on the chassis after the cabin so as allow full contents to flow to the pump. The tank shall be fabricated out of MS plated with bottom sheet not less than 5mm 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 3mm thickness. An inspection hole of not less than 450mm size shall be provided on top and others necessary arrangement as per standards.	
4	Pump	A Single stage Centrifugal type Pump capable of delivering water not less than 2250LPM at discharge pressure of 7kg/cm² and suction lift of 3 mts. The suction inlet shall minimum 100	

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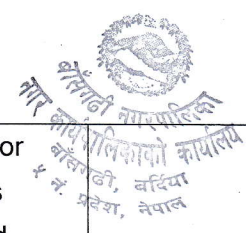
		mm round threaded type and minimum 2X63mm delivery outlets with GM-valves having female instantaneous coupling. The pump shall be rear mounted for ensuring max. hydraulic efficiency when working from open water.	
5	Prime	The pump shall be fitted with reciprocating type. Prime shall be capable of lifting water from 7 meter at a rate not less than 30cm/sec.	
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 duty 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 control 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 monitor of minimum discharge of 1400 LPM @ 9kg/cm ² water shall be provided on the top of the driver cabin/tender in such a manner that a member of fire crew can operate in mutually.	
9	Chassis	The tender shall be fabricated on truck 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.	

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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	Cab	The front compartment of driver's cabin shall be Factory built 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.	
16	Essential Accessories	The following accessories shall be supplied / fitted on the appliance. <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 • Additional Equipments/Accessories as per Accessories/Equipments List. 	
17	Clutch	Heavy duty disc type	
18	Transmission	Manual shift at least five forward and one reverse, All forward synchromesh	
19	Emission Standard	The Emission Standard of the vehicle should comply with the Vehicle Mass Emission Standard of Nepal.	
20	Suspension	Heavy duty semi elliptical leaf springs and shock absorbers	
21	Tires	Standard Size, Single front, Dual rear	
22	Steering	Power Assisted/ Power Steering	
23	Brakes	Servo assisted Hydraulic or air operated internal expanding type and mechanical parking brake and engine exhaust brake.	
24	Color	Painted in fire red with proper under coating.	
25	Axles	Front: Steel I Section	

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ACCESSORIES / EQUIPMENT LIST



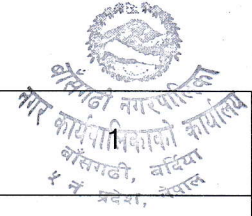
SN	Description	Unit	Qty
1	Extension Ladder 10.5 M (Trussed type double extension)	No.	1
2	Armored Rubber Suction Hoses 100 mm dia. 2.5 Meters Length fitted with round threaded male and female coupling Heavy duty, made of copper alloy of 100mm size	Nos.	4
3	Non Percolating 63 mm X 15 meters flexible fire fighting delivery hose of three layered synthetic jacketed, with elastomeric outer covering , resistant to liquids , chemicals, acids alkalis, solvents. abrasions & hear , having 42kg/cm2 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 -63 mm size made of light alloy	No.	1
8	Suction wrenches for 100 mm 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.	25
12	Hose Clamps	Nos.	25
13	Hydrant Valve Key and Bar	Set	1
14	Proximity Fire Suit	No	1

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15	Fog Nozzle made of gunmetal with extension applicator with fog head	No.	
16	Hand Controlled Branch Pipe-63mm made of gunmetal	No.	1
17	Gunmetal Branch Pipe , Universal 63mm size	No.	1
18	Gunmetal Branch Pipe with Revolving Head	No	1
19	Gunmetal short branch pipe complete with 63 mm size male instantaneous connection with gunmetal detachable nozzle	Nos.	2
20	Gunmetal nozzle of sizes 12 mm, 16mm, 20mm,25mm and 32mm (two each)	Nos.	10
	a) Adaptor for 100mm suction female screw coupling and 63 mm male instantaneous	Nos.	2
	b) Adaptor double female instantaneous patter 63mm	Nos.	2
	c) Adaptor double male instantaneous patter 63mm	Nos.	2
21	Nozzle spanner	Nos.	2
22	Portable eclectic box lamp with rechargeable accumulator	Nos.	2
23	Hand Lamp (Torch-4 cells)	Nos.	2
24	Flameproof lamp (usable in the present of inflammable gases of vapors)	Nos.	2
25	Fully imported self contained Breathing Apparatus Set with One Spare Air Cylinder of 45 min duration of 6 liters. 300 bar pressure	No.	1
26	First Aid Box of 10 Person	No.	1
27	Rubber Gloves (in case)	Pair.	1
28	Asbestos gauntlets (in case)	No.	1
29	Axe-Large	No.	1
30	Spade	No.	1

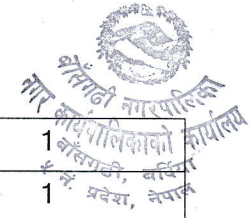
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31	Pick Axe	No.	1
32	Crow Bar	No.	1
33	Sledge Hammer	No.	1
34	Carpenter's saw	No.	1
35	Hydraulic Jack 7.5 Ton	No.	1
36	Fire Hook	No.	1
37	Tool Kit	No.	1
38	Portable Fire Extinguisher, Dry Powder type 2 kg (IS:1910)	No.	1
39	Lowering line 50mm lamp, 40m long having two ends spliced in and bend with a running nose	No.	1
40	Hydrant Stand Pipe two ways	No.	1
41	Hand Control Special nozzle <ul style="list-style-type: none">- The nozzle should have a built in system which should ensure efficient water flow in the form of jet, spray or fog.- The nozzle should be of lightweight aluminum alloy hard anodized- Flush without shutting off- Ball valve weight not to exceed 2.5kg- 64mm (2 ½') BS (M) inst.- it should be of akron rosenbauer/ Cosmotech only.	No.	1

Name: Om bahadur thapa

Designation: Mechanical Engineer

Office: DOR, HED nepalgunj

Date: 2076-10-22

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