



# वराहमुख नगरपालिका

नगर कार्यपालिकाको कार्यालय  
चक्रधारी सुनसरी  
१ नं. प्रदेश नेपाल

## वारुणयन्त्र (दमकल) खरिद गर्ने सम्बन्धी सूचना

प्रथम पटक प्रकाशित मिति २०७६/१/३०

यस कार्यालयका लागी आवश्यक दमकल १(एक) गोटा सार्वजनिक खरिद ऐन २०६३ (पहिलो संसोधन २०७३) को दफा ८ को उपदफा १ (क) तथा सार्वजनिक खरिद नियमावली २०६४ (चौथो संसोधन २०७३) को नियम ३१ (ख) बमोजिम सवारी साधन उत्पादक कम्पनी वा सो को आधिकारीक विक्रेताहरु बिचमा प्रतिस्पर्धा गराउने क्याटलग सपिङ्ग विधि बाट खरिद गर्नु पर्ने निर्णय भएकोले ईच्छुक ईजाजत प्राप्त कम्पनी वा त्यसको आधिकारीक विक्रेताहरुले आफ्नो फर्म दर्ता प्रमाणपत्र, भ्याट दर्ता प्रमाणपत्र, एजेन्सी दर्ता प्रमाणपत्र, Letter of Authorization र आ.व. २०७४/२०७५ को करचुक्ता प्रमाणपत्रको प्रतिलिपीहरु समावेश गरी सार्वजनिक खरिद नियमावली २०६४ को नियम ३१ ख (१) अनुसार निम्न स्पेशिफिकेशन बमोजिमको दमकलको आधिकारीक स्पेशिफिकेशन, मुल्य, सुविधा सहितको गुणस्तर बिबरण (क्याटलग वा ब्रोसर) संलग्न राखी यस सूचना प्रकाशित भएको मितिले ७(सात) दिन भित्र यस कार्यालयको कार्यालय समय भित्र निवेदन दर्ता गर्न हुन यो सूचना प्रकाशित गरिएको छ ।

यस सूचनाको विस्तृत बिबरण यस कार्यालयको वेबसाईट [www.barahamun.gov.np](http://www.barahamun.gov.np) मा राखिएको छ ।

क्र.सं	खरिद गर्नुपर्ने सामानको बिबरण	संख्या	स्पेशिफिकेशन	कैफियत
१	वारुण यन्त्र दमकल (Fire Fighting Vehicle)	१	<ul style="list-style-type: none"> <li>4000-4500 ltr. water tank capacity and 500 lits foam tank</li> <li>Power output not less than 120 HP, Min.torque not less than 415 NM at rated RPM.</li> <li>Centrifugal Fire pump CE or Equivalent capable of delivering water not less than 2250 LPM at discharge pressure of 7kg/cm<sup>2</sup> and suction lift of 3mts.</li> <li>The pump shall be lifted with reciprocating type.</li> <li>The Emission Standard of the vehicle should comply with the vechicle mass Emission Standard of Nepal.</li> <li>The chassis 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.</li> </ul>	संछिप्त विवरणमा उल्लेख नभएका बिषयहरु Technical Specification बमोजिम हुनेछ ।

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अच्युत प्रसाद दाहाल  
प्रमुख प्रशासकिय अधिकृत

## Technical Specifications

### Fire Fighting Vehicle of 4000-4500 liter water tank

S.N.	CRITERIA	REQUIREMENT	OFFERED SPECIFICATION
1	General	The Fire fighting vehicle of capacity <b>4000-4500 liters water tank capacity and 500 lits Foam tank</b> shall be designed and manufactured 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.	Make: Model: Mfg. year:- Country of Origin:
2	Engine	Four Stroke four cylinder water cooled diesel Engine with turbocharger having engine volume <b>developing rated Power output not less than 120 HP, minimum torque not less than 400 NM</b> 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:
3	Water Tank	Water tank shall be of <b>4000-4500 liters water tank capacity and 500 lits foam tank</b> 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/cm <sup>2</sup> 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 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.	





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 <sup>2</sup> 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 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	Gradability	Not less than 16%	
16	GVW	Not less than 13000 ±5% kg,	
17	Ground Clearance	Minimum Ground clearance 210mm	
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	The following accessories shall be supplied / fitted on the appliance. <ul style="list-style-type: none"> <li>• Head light, tail and rear light and turn signals</li> <li>• Cabin lights</li> <li>• Spare wheel with tire and tube</li> <li>• Fog light at front</li> <li>• Fire Bell</li> </ul> Additional equipments/Accessories as per Accessories/Equipments List.	
20	Clutch	Heavy duty disc type	
21	Transmission	Manual shift at least five forward and one reverse, All forward synchromesh	
22	Emission Standard	<b>The Emission Standard of the vehicle should comply with the Vehicle Mass Emission Standard of Nepal.</b>	
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	
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.	
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	The Fire fighting vehicle shall be delivered to:Baraha Municipality Office Sunsari	
35	MRP	6000000(Sixty Lakhs)	

**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.

Bidder's Signature..... Date

### 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 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/cm <sup>2</sup> 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.	15		
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		
	Adaptor double female instantaneous patter 63 mm	Nos.	2		
	Adaptor double male instantaneous patter 63mm	Nos.	2		
	Nozzle spanner	Nos.	2		
20	Portable electric lamp with rechargeable accumulator	No.	1		
21	Hydrant Stand Pipe two ways	Nos.	2		
22	Flame proof lamp	No.	1		
23	Self contained Breathing Apparatus Set with 45 min duration of 300 bar pressure	No.	1		
24	First Aid Box of 12 Person	Pair.	1		
25	Rubber Gloves (in case)	No.	1		
26	Asbestos gauntlets (in case)	No.	1		
27	Axe-Large	No.	1		
28	Spade	No.	1		
29	Pick Axe	No.	1		
30	Crow Bar	No.	1		
31	Sledge Hammer	No.	1		
32	Carpenter's saw	No.	1		
33	20 Ton capacity Hydraulic Jack	No.	1		
34	Fire Hook	No.	1		
35	Tool Kit	No.	1		
36	ABC Multipurpose type Fire Extinguisher, 2 kg Capacity	No.	1		
37	Lowering line 50mm lamp, 40m long having two ends spliced in and bend with a running nose	No.	1		
38	Fire Fighter Suit (complete set) (EN/CE/BS or equivalent)	No.	2 set		
39	Fire rescue harness	No.	2		
40	(standard: CE/EN/BS or equivalent)				

## Evaluation Criteria



Criteria for Bid evaluation are to be determined case by case basis. Select as appropriate from criteria listed in ITB 35.2. Retain only the evaluation method to apply and the relevant parameters in ITB 35.2 corresponding to the retained criteria.

a) Criteria for bid evaluation shall be on the base of:

1. Technical Specification,
2. CIP site price,
3. Delivery requirement as specified in Schedule of Requirements,

Delivery Schedule: within 3 month after bid sign/agreement (As stated in schedule of requirement of Bid document). (No credit will be given to deliveries before the earliest date, and bids offering delivery after the final date shall be treated as non responsive. Within this acceptable period, an adjustment of 0.05 percent of the bid price per day will be added, for evaluation purposes only, to the bid price of bids offering deliveries later than the "Earliest Delivery Date"

b) **Spare parts and after sales service facilities**

To support the after sales service and availability of spare parts, the bidder should propose a workshop that has capacity to provide service of fire brigade within near the delivery place. So the bidder should

1. Have its own well equipped workshop or have legal partnership with a workshop with capacity near the fire station to provide service to firefighting vehicle. So the workshop should provide end user certificate / letter of recommendation that it has previously serviced a fire brigade (of their organization). The bidder should also present document evidence of the workshop area, capacity, manpower, and audit documents, relevant documents like registration, tax clearance and certification if any. OR

2. Authorization from the authorized service centers of the chasis manufacturer company it is proposing in the bid in Nepal, and near the fire station

## Qualification Criteria





The Bids shall be submitted by the local partner. The Bidder shall submit **Manufacturer's authorization(s)** (Such authorization letter shall be furnished in accordance to the sample format of bid document). The principal / manufacturer is bound to honor any commitment of whatever nature made by the local firm so authorized on behalf of his principal. The offered goods/equipment shall be latest and in current production for a minimum of 2 years. If the offered model is a new, the manufacturer must have experience in producing the similar model for a minimum of 2 years.

## Manufacturer

Criteria	Requirements
Basic Requirements	The Supplier should be legally registered firm and doing similar business for at least <b>Five (5)</b> years.
Warranty	The manufacture / Supplier should transfer the warranty of all the parts installed in the Fire brigade to the purchaser. The minimum warranty of all these parts should be at least 1 year.
Financial Capabilities	The Bidder shall have Average Annual Turnover (AAT, defined as the total payments received by the Bidder averaged over last three consecutive years period) of not less than <b>30.0 Millions NRs.</b>
Similar Contracts	<p>The Manufacturer shall submit end user certificates / letter of recommendation showing that the manufacturer has successfully completed the 20 similar contracts* in the last 3 (Three) years.</p> <p>The end user certificate shall be clear and clearly mention the details of the contract. If any sign of alteration in the certificate is found, it will be rejected.</p>

\* Similar contracts means fabrication and supply of similar fire brigade in its own country or exported, in similar operational, working and geographical conditions like India and Nepal or with similar climatic conditions.

Local Partner





Criteria	Requirements
<b>Basic Requirements</b>	<p>a) The Local partner or all the partners shall be a legally registered firm and doing similar business for at least <b>Five (5) years</b>. The local partner shall submit bids on behalf of only one manufacturer.</p> <p><i>The local partner</i></p> <p>(a) The number of local partners shall not exceed two (2).</p> <p>Notarized copies of legal registration, certificates for each partner shall be submitted along with the Bid.</p>
<b>After Sales Service</b>	<p><i>The local partner should have adequate after sales service capabilities in terms of institutional arrangement and technical capacity.</i></p>
<b>Financial Capabilities</b>	<p>The Local Partner shall have Average Annual Turnover (AAT, defined as the total payments received by the Bidder averaged over last three consecutive years period) of not less than NRs. <b>9.0 Millions</b></p> <p>For the JV:</p> <p>The Average Annual Turnover of the lead partner shall not be less than 80 % of the amount stated above. The Average Annual of other partners shall not be less than 10% of the amount stated above. And the total Average Annual Turnover of all the JV partners shall not be less than the specified above.</p>
<b>Similar Contracts</b>	<p>The local partner / one of the local partners shall submit end user certificates / letter of recommendation showing that the local partner has successfully completed the 6 similar contracts for single and 10 similar contracts for JV*, in the last 3 (Three) years and among them</p> <p>The end user certificate shall be on the letterhead of the end user with valid address for correspondence and signed by or on behalf of the end user.</p>

\* Similar contracts means supply of fire brigade to reputed institution in Nepal

