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06.06.0000.214.Re-eval.22/Water Bowser

13 April 2023

BOARD OF OFFICER - EVALUATION OF WATER BOWSER/TRUCK WATER (10000L & ABOVE) FOR UN MISSION

Reference:

A. Army Headquarters, Quarter Master General Branch, Supply and Transport Directorate letter number 23.01.901.043.03.01.079.02.10.04.23 Dated 10 April 2023.

1. Please be informed that, Bangladesh Army is planning to procure Water Bowser/Truck Water (10000L & Above) for UN Mission. In this regard, you are requested to provide offer, Brochure, Catalogue, technical/training/operational/maintenance manuals and budgetary offers etcetera for standardization of models Water Bowser/Truck Water (10000L & Above). Offered models should be compatible with general technical specification attached herewith and submits directly to Army Headquarters, Quarter Master General Branch, Supply and Transport Directorate, Dhaka Cantonment by **30 May 2023** with intimation to this office. You are also requested to provide enlistment certificate of DGDP along with technical offer.

2. Forwarded for your information and necessary action please.



MD SHAHARIARE KHAN
Lieutenant Colonel
For Director General

Annexure:

A. Technical Specification of Water Bowser/Truck Water (10000L & Above) - 01 (One) Set only.

Distribution:

External:

Action:

(All Concerned Supplier/Firm)

Information:

Army Headquarters, General Staff Branch, Overseas Operations Directorate
Army Headquarters, General Staff Branch, Weapon Equipment and Statistic Directorate
Army Headquarters, Quarter Master General Branch, Supply and Transport Directorate
Army Headquarters, Master General of the Ordnance Branch, Ordnance Directorate

Internal:

IT Section - (For sending to enlisted Supplier/Firm with DGDP through e-mail). Also publish in web site.

Notice Board

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ANX 'A' TO
 AHQ, QMG'S BR (ST DTE)
 LTR NO 3.01.901.043.03.079.02
 DT: 10 APR 2023

TECHNICAL SPECIFICATIONS OF WATER BOWSER/TRUCK WATER (10,000 LITRES AND ABOVE)

Ser	Description	Specification Specified	Must be filled up by manufacturer
1.	Nomenclature	Water Bowser/Truck Water (10,000 Litres and Above)	
2.	Name and Complete Address of Local Agent	To be mentioned	
3.	Name and Complete Address of Principal	To be mentioned	
4.	Name and Complete Address of Manufacturer	To be mentioned	
5.	Vehicle Make & Model	To be mentioned	
6.	Country of Origin	Gp A/ B/ C	
7.	Country of Manufacture		
8.	Country of Assembly		
9.	Year of Production / Manufacturer	Not before the year of contract	
10.	Overall Dimensions.		
	a. Length	To be mentioned	
	b. Width	To be mentioned	
	c. Height	To be mentioned	
	Truck Specification.		
11.	a. Make and model	To be mentioned	
	b. Country of Origin	Gp A/ B/ C	
	c. Country of Manufacture		
	d. Country of Assembly		
	e. Year of manufacture	Not before the year of contract	
	f. Drive	Right Hand Drive (RHD)	
	g. Configuration	6x6 (Minimum)	
12.	Dimensions (Vehicle)		
	a. Overall length	To be mentioned	
	b. Overall width	To be mentioned	
	c. Overall height	To be mentioned	
13.	Kerb weight	To be mentioned	
14.	Pay load	Minimum 25 Ton	
15.	Gross vehicle weight	To be mentioned	
16.	Overall load bearing capacity	To be mentioned	
17.	Wheel base	To be mentioned	
18.	Gradeability	20° (minimum)	
19.	Ground clearance	295mm (minimum)	
20.	Angle of approach	25° (minimum)	
21.	Angle of departure	25° (minimum)	
22.	Min turning radius	11 M (maximum)	
23.	Front overhang	To be mentioned	
24.	Rear overhang	To be mentioned	
25.	Height of bed	To be mentioned	
26.	Cabin height from ground to top	To be mentioned	
27.	Tread front	To be mentioned	
28.	Tread rear	To be mentioned	
29.	Fuel consumption per 100km	To be mentioned	
30.	Cruising range	500 Km (minimum)	
31.	Fording depth	750mm (minimum)	
32.	Tyre.		
	a. No of wheel including spare tyre	To be mentioned	
	b. Size of Tyre	To be mentioned	
	c. Tyre type	To be mentioned	
	d. Tyre brand	Bridgestone/Dunlop/Goodyear/Yokohama/ Toyo/Uniroyal/Continental/Michelin/Folda/ Firestone/Armstrong/AMTEL/Pirelli/Hankook/ Kumho	

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Ser	Description	Specification Specified	Must be filled up by manufacturer
	e. Rim size	To be mentioned	
	f. Country Origin	Gp A/ B/ C	
	g. Tread pattern	ND, GG, CC (Non-Directional, Ground Grip, Cross Country)	
33.	Chassis Frame.		
	a. Make	To be mentioned	
	b. Country of Origin	Gp A/ B/ C	
	c. Country of Manufacture		
	d. Country of Assembly		
	e. Type	To be mentioned (Parallel section high tensile steel)	
	f. Length, width, height and thickness of chassis frame	To be mentioned. Diagram/catalogue to be provided with offer.	
	g. Chassis frame Resistance to Bending Moment	The truck chassis must be capable to resist the bending movement of the tank with payload. The chassis will not be cracked/ fractured and no other defects will arise up to 10 years. (Chassis manufacturer's certificate to be provided with details calculation).	
34.	Cab System	Tilt Cab, roof hatch, AC, heater with variable speed fan, adjustable driver seat, rear windows (Country of origin, manufacturer & assembly and capacity for AC to be mentioned).	
35.	Seat capacity	To be mentioned	
36.	Engine.		
	a. Make & Model	To be mentioned	
	b. Type	Diesel engine	
	c. Country of Origin	Gp A/ B/ C	
	d. Country of Manufacturer		
	e. Country of Assembly		
	f. No of Cylinder	Minimum 6 Cylinder	
	g. Bore & stroke	To be mentioned	
	h. Displacement	10 L (Minimum)	
	j. Max Horse power with rated rpm	360 HP (Minimum) rpm to be mentioned	
	k. Compression ratio	To be mentioned	
	l. Max torque with rated rpm	Minimum 1650 Nm with rpm to be mentioned	
	m. Fuel injection pump	To be mentioned	
	n. Engine test bench certificate	During inspection Engine Test Bench Report (for each model) which was prepared by manufacturer during production of engine at manufacturing factory must be produced and submitted to the PSI team for each model (duly signed and stamped by the manufacturer). Other engines (mentioning engine number) of the same model must be certified confirming the engine Test Bench Report by the manufacturer (duly signed and stamped).	
	p. Engine life before 1 st overhaul	Details to be mentioned	
	q. Cooling system	Water cooled /Liquid cooled	
37.	Transmission.		
	a. Type	To be mentioned	
	b. Make & Model	To be mentioned	
	c. Country of origin, manufacture and assembly	Gp A	
	d. No of Gear	Minimum 08 forward, 01 reverse	
	e. All gear ratio	To be mentioned	
38.	Transfer Case.		
	a. Make and model	To be mentioned	
	b. Country of origin, manufacturer & assembly	Gp A/ B/ C	
	c. Transfer case gear ratio	To be mentioned	

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Ser	Description	Specification Specified	Must be filled up by manufacturer
39.	Power to weight ratio	To be mentioned	
40.	Windshield glass	Laminated type	
41.	Clutch type	Detail to be mentioned	
42.	Axle.		
	a. Number of axle	3 Numbers	
	b. Front Axle.		
	(1) Type	To be mentioned	
	(2) Make & Model	To be mentioned	
	(3) Pay Load	To be mentioned	
	(4) Country of Origin, Manufacturer & Assembly	Gp A/ B/ C	
	c. Rear Axle.		
	(1) Type	To be mentioned	
	(2) Make & Model	To be mentioned	
	(3) Pay Load bearing capacity	To be mentioned	
	(4) Country of Origin, Manufacturer & Assembly	Gp A/ B/ C	
43.	Fuel tank capacity	To be mentioned	
44.	Brake System.		
	a. Service brake	To be mentioned	
	b. Parking brake	To be mentioned	
	c. Exhaust brake (If any)	To be mentioned	
	d. Emergency Brake (If any)	To be mentioned	
	e. Any other brake (if available)	To be mentioned	
45.	Steering	Power steering system	
46.	Suspension.		
	a. Front	To be mentioned	
	b. Rear	To be mentioned	
47.	Electric System :		
	a. Voltage	24 Volt	
	b. Battery	2x12V, AH to be mentioned	
	c. Alternator	Volt & Amp to be mentioned	
	d. Self-starter	Volt & KW to be mentioned	
48.	Lighting System.	All normal lights including fog lights, indicators light, marker light and following blackout lights NATO standard to be provided	
	a. 01 x Blackout head light at front right side NATO standard	To be provided	
	b. 02 x Blackout side light at front left & right side NATO standard	To be provided	
	c. 02 x Blackout combination (side & stop) light at rear left & right side NATO Standard	To be provided	
	d. 01 x Convoy light at rear NATO std	To be provided	
49.	Accessories.		
	a. 01 x Pintle hook military pattern at rear.	To be provided.	
	b. 02 x Towing hook at front (NATO Standard)	To be provided	
	c. 01 x Spare wheel lifting facilities	To be provided. (Spare wheel to complete with tilting attachment and lifting facilities)	
	d. 02 x Sun visor	To be provided	
	e. 01 x Hydraulic jack minimum 10 ton capacity, origin to be confirmed from group A country.	To be provided	
	f. 01 x Tyre inflation hose with adapter and nozzle	To be provided	
	g. Winch (Recovery)	To be provided. Capacity of winch, length and dia of rope to be mentioned.	
50.	Standard maintenance tools incl tool box	To be provided (details list of manufacturer's standard maintenance tools to be provided along with the offer)	

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Ser	Description	Specification Specified	Must be filled up by manufacturer
Tank.			
51.	a. Make and Model	To be mentioned (details along with drawing / catalogue to be provided with offer)	
	b. Country of Origin, Manufacturer & Assembly	Gp A/ B/ C	
	c. Capacity	Minimum 20000 litres	
	d. Tank material	To be mentioned	
	e. No of manhole with opening	03 Nos (Minimum)	
	f. No of compartment inside the tank	02 Nos (Minimum)	
	g. No of baffles in each compartment	03 Nos (Minimum)	
52.	Pump (Suction & Delivery both).		
	a. Brand		
	b. No of Pump	To be mentioned	
	c. Make and Model	To be mentioned	
	d. Country of Origin & Manufacturer	Gp A/ B/ C	
	e. Capacity	To be mentioned	
	f. Drive	Driven by PTO	
	g. Pump head	To be mentioned	
	h. Dispensing unit with resettable flow meter	To be provided	
53.	Delivery hose complete with coupling.		
	a. Brand	To be mentioned	
	b. Country of Origin	Gp A/ B/ C	
	c. Materials	To be mentioned	
	d. No of Hose	02 Nos. Reel with delivery hose to be provided	
	e. Length of hose	50m (Minimum)	
	f. Dia of hose pipe	50mm (Minimum)	
54.	Suction pipe complete with coupling.		
	a. Brand	To be mentioned	
	b. Country of Origin	Gp A/ B/ C	
	c. Materials	To be mentioned	
	d. No of pipe	To be mentioned	
	e. Length of pipe	10M (Min)	
	f. Dia of pipe	50mm (Min)	
	g. Type of pipe	Double armoured	
55.	Delivery line	The tank shall have delivery line (dia to be mentioned) at the bottom from both compartments along with the gate valve.	
56.	Fittings	To be mentioned (details of manufacturer's standard fittings to be mentioned)	
57.	Steel ladder	The tank shall have steel platform and access ladder at the rear and a steel catwalk on the top and both sides of tank body of std size. Manhole/filling port, step riser with ladder and easy washable system with drain pipe and a nozzle (to be mentioned)	
58.	Fire Extinguisher	02 x Fire Extinguisher ABC&E type with chemical & brackets to be provided (Capacity and origin to be mentioned)	
59.	Color.		
	a. Inside paint	Without paint suitably prepared for drinking water	
	b. Outside colour	White Color with UN writing (DUCO Paint Nitro Cellulose Based)	
60.	POL Information: The following information must be submitted with the offer:		
	a. Detail maintenance schedule of vehicle & engine.	To be provided	
	b. Grade of diesel used in vehicle.	To be provided	
	c. Grade of diesel to be used in Bangladesh	To be provided	
	d. Grade of engine oil used in vehicle.	To be provided	
	e. Grade of engine oil to be used in Bangladesh	To be provided	
	f. Grade of gear oil used in vehicle.	To be provided	

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Ser	Description	Specification Specified	Must be filled up by manufacturer
	g. Grade of gear oil to be used in Bangladesh	To be provided	
61.	Training Requirements		
	a. User Training	To be provided (As per User/Sponsor Directorate)	
	b. Operation, Repair and Maintenance Training	To be provided (As per requirement of EME Directorate)	
	c. Equipment Management Training	To be provided (As per requirement of Ordnance Directorate)	
62.	Publications		
	a. Driver's/Owners Manual in English for vehicle (complete Book Type)	To be provided as per the requirement of EME Directorate	
	b. Updated Workshop/Repair Manual (for vehicle) in English (complete Book Type)	To be provided as per the requirement of EME Directorate	
	c. Spare Parts Catalogue in English Book type.	To be provided as per the requirement of EME Directorate	
	d. Spare Parts Price Catalogue in English Book type.	To be provided as per the requirement of EME Directorate	
	e. Other Operator's manuals Catalogue (Book Type) for additional equipment like Radio, Navigational Equipment etc	To be provided as per the requirement of EME Directorate	
63.	List of spares	To be mentioned	
64.	Special Service Tools (SST)	To be provided as per the requirement of EME Directorate	
65.	Special Service Materials (SSM)	To be provided as per the requirement of EME Directorate	
66.	Conditions.		
	a. Suitable water gauge/indicator to be provided		
	b. Manhole assembly consisting of circular wall with bolted cover plate & further cover by hinged metal hatch, water vapor ventilation system, stick gauge for measuring to be provided. All fitting pipes to be made of galvanized iron.		
	c. Metering system to be provided.		
	d. The tank shall have arrangement of carrying both suction & delivery pipes along with their fittings/accessories.		
	e. Measuring gauges/ meters with counter meter to be provided with suction/delivery pump.		
	f. All gauges meters including dashboard should be provided with MKS / CGS system (i.e. metric system).		
	g. All lights, gauges, meters in dashboard (metric system, driving mirrors, cabin lights etc will be equipped with the vehicles as per latest standard. The vehicle will have to be provided with tyre inflation system in the vehicle.		
	h. Tank to be furnished with earthing wire, trailing chain, dip rod container, fire screen between water tank & driver's cabin.		
	j. Exhaust and silencer pipe should be at front.		
	k. Fast and slow moving spare parts to be provided as per requirement of EME Dte.		
	l. The equipment should have minimum 10 years model validity.		
67.	Inspections		
	a. Stage inspection	Name of places/location (factory/plants etc) for stage inspection of major components to be mentioned	
	b. Pre-shipment inspection (PSI)	Address to be mentioned	

Note: Following information's/documents to be submitted along with the offer:

a. Details of working principle.
b. After sales service details to be mentioned.
c. Approximate FOB price
d. Arrangement with the firm for training and PSI of person for operation and maintenance (Country to be mentioned).
e. Same Local Agent representing more than one model in the same category will not be approved for standardization.
f. Any other relevant technical information may also be enclosed.

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