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01 Bhadra 1430

16 August 2023

06.06.0000.214.eval.23/ Water Truck Sprinkle (Hy)

RE-EVALUATION OF WATER TRUCK SPRINKLE (HEAVY)

Reference:

A. Army Headquarters, Engineer in Chief's Branch, Engineer Directorate letter number 23.01.901.055.02.192.03.13.08.23 Dated 13 August 2023.

1. Please be informed that, Bangladesh Army is planning to procure Water Truck Sprinkle (Heavy) for Bangladesh Army. 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 Truck Sprinkle (Heavy). Offered models should be compatible with general technical specification attached herewith and submits directly to Army Headquarters, Engineer in Chief's Branch, Engineer Directorate, Dhaka Cantonment by **30 August 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 Truck Sprinkle (Heavy) - 06 (Six) Pages only.

Distribution:

External:

Action:

(All Concerned Supplier/Firm)

Information:

Army Headquarters, General Staff Branch, Weapon Equipment and Statistic Directorate

Army Headquarters, Engineer in Chief's Branch, Engineer Directorate Internal:

Internal:

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

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ANX A TO
ENGR DTE LTR NO.
LTR NO. 23.01.901.055.02.192.02.13.08.23
DT: 13 AUG 2023

TECHNICAL SPECIFICATION OF WATER TRUCK SPRINKLE (HEAVY) (CAPACITY 10000 LITERS AND ABOVE)

Ser	Description	Required Technical Specification	Remarks
1.	Name of the Equipment	Water Truck Sprinkle (Heavy) (Capacity 10000 liters and above)	
2.	Name and Complete Address of the Local Agent	To be mentioned	
3.	Name and Complete Address of the Manufacturer	To be mentioned	
4.	Name and Complete Address of Principal	To be mentioned	
5.	Vehicle Make & Model	To be mentioned	
6.	Country of Origin	Group A countries	
7.	Country of Assembly		
8.	Country of Manufacturer		
9.	Year of Production		Not before the year of contract
10.	Cab System	Day cab, roof hatch, rear windows, heater and defroster with variable speed fan, adjustable driver seat	
11.	Drive	RHD, 4x4	
12.	Chassis Frame		
	a. Type	To be mentioned	
	b. Country of Origin	Group A Country	
	c. Country of Mfc		
	d. Country of Assy		
	e. Length		
	f. Width	To be mentioned	
	g. Height		
	h. Thickness		
	j. Chassis frame resistance to bending moment (RBM)		The truck Chassis must be capable to carry offered payload. The chassis will not be cracked/fracture and no other defects will arise up to 10 years (Chassis manufacturers certificate to be provided with details calculation)
13.	Steering system	Power steering	
14.	Dimensions (Vehicle)		
	a. Overall length	Minimum 6600 mm	
	b. Overall width	Minimum 2100 mm	
	c. Overall height	Minimum 2900 mm	
15.	Gross Vehicle weight	Minimum 18000 Kg	
16.	Pay load	Minimum 11000 Kg	
17.	Kerb Weight	To be mentioned	
18.	Wheel base	Minimum 3800 mm	
19.	Gradeability	Minimum 20°	
20.	Ground clearance	Minimum 300 mm	
21.	Angle of approach (degree)	Minimum 20°	
22.	Angle of departure (%/degree)	Minimum 20°	
23.	Turning radius	Maximum 9.5 m	
24.	Front overhang	Minimum 1400 mm	
25.	Rear overhang	Minimum 1150 mm	
26.	Height of bed	Minimum 1150 mm	
27.	Tread front	Minimum 1400 mm	
28.	Tread rear	Minimum 1700 mm	
29.	Load per axle	Details to be mentioned	

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Ser	Description	Required Technical Specification	Remarks
30.	Cabin		
	a. Type of Cabin	To be mentioned	
	b. Number of Passenger	2-4 Number	
	c. Cabin Height	Minimum 3000 mm	
	d. Air Condition		
	(1) Type/model	To be mentioned	
	(2) Country of Origin	Group A Country	
	(3) Capacity	To be mentioned	
31.	Engine		
	a. Make & Model	To be mentioned	
	b. Type include Cycle	4 Stroke, diesel engine	
	c. Country of Origin	Group A Country	
	d. Country of Mfc		
	e. Country of Assembly		
	f. Year of Production	Not before the year of contract	
	g. Rated Horse Power (HP) with rpm	Minimum 301 HP @ rpm to be mentioned	
	h. Number of cylinder	Minimum 6 Cylinder	
	j. Maximum Torque with rpm	Minimum 900 Nm @ rpm to be mentioned	
	k. Bore and stroke	To be mentioned	
	l. Cooling sys	Water Cooled	
	m. Displacement	To be mentioned	
	n. Fuel consumption	To be mentioned	
	p. Type of Fuel	Diesel	
	q. Cruising range	Minimum 275 km	
	r. Engine life before 1 st overhauling (In mileage an hour)	To be mentioned	
	s. Engine test bench certificate	Engine Test Bench Report which was prepared by manufacturer during production of engine at manufacturing factory must be produced and submitted to the PSI team for each model. 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)	
32.	Fuel tank capacity	Minimum 300 liters	
33.	Tyre		
	a. Number of Tyre		
	(1) Front Axle	02 Nos	
	(2) Rear Axle	04 Nos	
	(3) Spare	01 No with jack up and hanger facilities	
	b. Size of Tyre	To be mentioned	
	c. Tyre type/pattern design	Radial type, Non-directional, Ground Grip/Cross country (ND, GG/CC)	
	d. Brand	Bridgestone/Dunlop/Goodyear/ Yokohama/Toyo/Uniroyal/Continental/Michelin/Folda/Firestone/ Armstrong/AMTEL/ Pirelli	
	e. Tyre Country of Origin and Manufacturer	USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore and Thailand	
	f. Rim size	To be mentioned	
34.	Transmission		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group A Country	
	c. Country of Mfc		
	d. Country of Assembly		



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Ser	Description	Required Technical Specification	Remarks
	e. Type of gear	Manual	
	f. No of gear shift	Details to be mentioned	
	g. All gear ratio	Details to be mentioned	
	h. Transfer case model	To be mentioned	
	j. Transfer case gear ratio	Details to be mentioned	
35.	Transfer Case		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group A Country	
	c. Country of Mfc		
	d. Country of Assembly		
	e. Gear Ratio	Details to be mentioned	
36.	Power to weight ratio	To be mentioned	
37.	Windshield glass	Laminated type or equivalent	
38.	Clutch type	To be mentioned	
39.	Axle (Make & Model)		
	a. Type of Axle	To be mentioned	
	b. Country of Origin	Group A Country	
	c. Country of Manufacturer		
	d. Front	Details to be mentioned	
	e. Rear	Details to be mentioned	
40.	Brake sys		
	a. Service brake	Details to be mentioned	
	b. Parking brake	Details to be mentioned	
	c. Emergency brake	Details to be mentioned	
	d. Exhaust brake	Details to be mentioned	
41.	Suspension		
	a. Front	Details to be mentioned	
	b. Rear	Details to be mentioned	
42.	Electric System		
	a. Voltage	24 Volt	
	b. Battery (Volt & AH)	2x12V, Ah to be mentioned	
	c. Alternator (Volt & Amp)	24 Volt & Amp to be mentioned	
	d. Starter (Volt & KW)	24 Volt & KW to be mentioned	
42.	Lighting System	All normal lights incl fog lights and fol blackout light NATO std to be provided	
	a. 01 x Blackout head light at front right side	To be provided	
	b. 02 x Blackout side light at front left & right side.	To be provided	
	c. 02 x Blackout combination (side & stop) light at rear left & right side.	To be provided	
	d. 01 x Convoy light at rear	To be provided	
43.	Accessories		
	a. 01x Pintle hook military pattern at rear	To be provided	
	b. 02x Towing hook at front	To be provided	
	c. 01x Spare wheel complete with fitting attach	To be provided	
	d. 02x Sun visor	To be provided	
	e. Tyre inflator	Tyre inflator complete with high pressure hose, adaptor, pressure gauge & nozzle (from the main air compressor to all wheels) to be provided	
	f. Any other	To be mentioned	



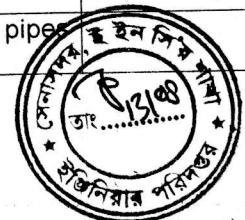
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Ser	Description	Required Technical Specification	Remarks
44.	Tank		
	a. Make & Model	To be mentioned (details along with drawing/catalogue to be provided with offer)	
	b. Country of Origin	Group A Country	
	c. Country of Assembly		
	d. Country of Mfc		
	e. Capacity	Minimum 10000 Liters	
	f. Tank material	Stainless steel for drinking water without paint (thickness of sheet to be mentioned)	
	g. No of manhole with opening	Minimum 03 Nos	
	h. No of partition inside the tank	Minimum 02 Nos	
	j. No of baffles in each compartment	To be mentioned as per manufacturers standard	
	k. Mechanical drawing of the Tank	Drawing to be provided	
45.	Sprinkle System	Details to be mentioned (Sprinkle Sys, Layout of Sprinkle, No of Sprinkles, Rate of flow, Tank full and empty indicators etc)	
46.	Water Pump with Valve		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group A Country	
	c. Country of Mfc		
	d. Country of Assembly		
	e. Power of Pump	To be mentioned	
	f. Capacity	Minimum 350 liter/min	
	g. Drive	Driven by PTO	
	h. Dispensing unit	Re-settable flow meter (Sprinkle) or equivalent	
	j. Suction Head	Minimum 10 m	
	k. Delivery Head	Minimum 15 m	
47.	Delivery Hose Complete with Coupling		
	a. No of Hose	Reel with delivery hose to be provided (Number to be mentioned)	
	b. Length of hose	Minimum 10 meter	
	c. Dia of hose pipe	To be mentioned	
48.	Suction Pipe Complete with Coupling		
	a. No of pipe	To be mentioned	
	b. Length of pipe	To be mentioned	
	c. Dia of pipe	To be mentioned	
	d. Type of pipe	Double armoured hose or equivalent	
49.	Delivery line	The tank shall have delivery line (Dia to be mentioned) at the bottom from both compartments along with the gate valve	
50.	Fittings	To be mentioned (details of manufacturers std fittings to be mentioned)	
51.	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 the tank body of standard size, Manhole/filling port step riser with ladder and easy washable System with drain pipe and a nozzle (to be mentioned)	
52.	Fire Extinguisher	01x Fire Extinguisher ABC & E type with Chemical & brackets to be provided (capacity to be mentioned)	
53.	Standard maintenance tools	To be provided (details list of manufacturers standard maintenance tools to be provided along with the offer)	



Ser	Description	Required Technical Specification	Remarks
54.	Operation Temperature	-5°C to + 55°C	
55.	Maintenance	Details to be mentioned	
56.	ISO certificate or Similar Rating	ISO Certificate to be provided by the manufacturer	
57.	Colour		
	a. Inside paint	Without paint suitably prep for drinking water	
	b. Outside	As per tender requirement	
58.	Training requirement		
	a. User training (For Engineers)	To be provided (As per requirement of Engineer Directorate)	
	b. Operation, repair and maintenance training	To be provided (As per requirement of Electrical and Mechanical Engineers Directorate)	
	c. Equipment Management Training (For Engineers)	To be provided (As per requirement of Ordnance Directorate)	
59.	Repair and maintenance requirement list of spares: a. Owners/operators manual in English (book type) including CD/DVD b. Workshop/repair manual in English (book type) including CD/DVD c. 100% updated master spare parts catalogue in English (book type) including CD/DVD. d. Complete and updated master spare parts price catalogue/list in English (book type) including CD/DVD	To be provided (As per requirement of Electrical and Mechanical Engineers Directorate)	
60.	List of standard spares	List of standard spares to be provided	
61.	Tools list for different level of maintenance: a. Analyzer, measuring & testing/fault finding and diagnostic set b. Special Service Tools (SST) c. Special Service Materials (SSM)	To be provided (As per requirement of Electrical and Mechanical Engineers Directorate)	
62.	Petrol Oil Lubricant (POL) Information	The following information must be submitted with the offer	
	a. Detail maintenance schedule of Equipment & Engine	Required information to be submitted in compatible with Bangladesh Army	
	b. Grade of diesel used in Equipment		
	c. Type of Engine Oil used in Equipment		
	d. Type of gear Oil used in Equipment		
63.	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 (optional), stick gauge for measuring to be provided. All fitting pipes to be made of galvanized iron		
	c. Metering sys to be provided.		
	d. The tank shall have arrangement of carrying both suction & delivery pipes along with their fitting/accessories		



Ser	Description	Required Technical Specification	Remarks
	e. The tank to be furnished with dip rod container		
	f. Measuring gauges/meters with counter meter to be provided with suction/delivery pump		
	g. All gauges meters including Dashboard should be provided with MKS/CGS system (i.e. metric sys).		
	h. 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)		
64.	Location of Stage Inspection/ Pre-Shipment Inspection		
65.	Certificate on spare parts availability in Bangladesh		
66.	List and certificate on usage of the equipment by other organizations or agencies from Bangladesh		
67.	List and certificate of local after-sales-service workshop from Bangladesh who can provide spares of the equipment readily		
68.	Detailed address of after-sales-service workshop in Bangladesh		
	Note: Following information's/documents to be supplied along with the offer:		
	a. Details of working principle		
	b. Functional/Users training in country to be provided by foreign/Local expert		
	c. Provision of supply of major spares for min years		
	d. Provision of supply fast and slow moving spares for min 15 years		
	e. Model validity in years (minimum 10 years).		
	f. List of spares, Special Service Tools (SST)/Special Service Material (SSM)		
	g. Any other relevant tech info may also be enclosed		

