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26 Bhadra 1431

10 September 2024

06.06.0000.214.eval.24/Truck wrecker med

RE-EVALUATION/STANDARDIZATION OF TRUCK WRECKER (MEDIUM) 5 TON 6X6

Reference:

A. Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate letter number 23.01.901.048.06.079.01.05.09.24 Dated 05 September 2024 (Not to all).

1. Please be informed that Bangladesh Army is planning for re-evaluation/standardization of **Truck Wrecker (Medium) 5 Ton 6X6**. In this regard, you are requested to provide **technical offer original catalogue/brochure, necessary certificate along with 100% updated original spare parts catalogue (Hard/Soft copy) and other information**. Offered models should be compatible with general technical specification attached herewith and to be submitted directly to Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate, Dhaka Cantonment by **06 October 2024** with intimation to this office. You are also requested to provide enlistment certificate of DGDP along with technical offer. Lack of any information will disqualify the offer.

2. Forwarded for your information and necessary action please.



SHEULY AKTER
Lieutenant Colonel
For Director General

Annex:

A. Technical Specification of Truck Wrecker (Medium) 5 Ton 6X6 - 09 (Nine) Pages only.

Distribution:

External:

Action:

(All Concerned Supplier/Firm)

Information:

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

Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate

Internal:

IT Section: Publish in web site.

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GENERAL SPECIFICATIONS: TRUCK WRECKER (MEDIUM) 5 TON 6X6

Serial	Description of General specifications	Required General Specifications	Remark
1.	Name of the Firm/Local Agent with Full Address	To be mentioned	
2.	Principal's Name with Full Address	To be mentioned	
3.	Manufacturer's Name with full address	To be mentioned	
4.	Nomenclature	Truck Wrecker (Medium) 5 Ton 6x6	
5.	Make & Model	To be mentioned	
6.	a. Country of Origin	Group-A	
	b. Country of Manufacturer	Group-A	
	c. Country of Assembly	Group-A	
7.	<u>Truck Specification</u>		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group-A	
	c. Country of Manufacturer	Group-A	
	d. Country of Assembly	Group-A	
8.	Configuration	6 x 6 (minimum)	
9.	Drive	RHD	
10.	Kerb Weight	To be mentioned	
11.	Pay Load	To be mentioned	
12.	Gross Vehicle Weight (GVW)	To be mentioned	
13.	<u>Dimensions.</u>		
	a. Overall Length (mm)	To be mentioned	
	b. Overall Width (mm)	To be mentioned	
	c. Overall Height (mm)	To be mentioned	
	d. Cabin Height (mm)	To be mentioned	
14.	Ground Clearance (mm)	275 mm (Minimum)	
15.	Wheel Base (mm)	To be mentioned	
16.	Angle of Approach (degree)	25° (Minimum)	
17.	Angle of Departure (degree)	25° (Minimum)	
18.	Maximum Grade Ability	60% (Minimum)	
19.	Fording Depth (mm)	650 mm (Minimum)	
20.	Turning Radius (M)	Maximum 12.5 Meter	
21.	Tread Front (mm)	To be mentioned	
22.	Tread Rear (mm)	To be mentioned	
23.	<u>Engine.</u>		
	a. Type	To be mentioned	
	b. Make & Model	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	f. Number of Cylinder	Minimum 6 cylinder	
	g. HP at Rated rpm	Minimum 300 HP at rated rpm	
	h. Torque with rpm	To be mentioned at rated rpm	
	j. Bore & Stroke (mm)	To be mentioned	
	k. Piston displacement (cc)	10000 cc (Minimum)	
	l. Type of Injection	To be mentioned	
	m. Compression Ratio	To be mentioned	

A-1
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Serial	Description of General specifications	Required General Specifications	Remark
	n. Engine Test Bench Report	1. Engine Test Bench Report for all engines prepared by manufacturer during production of engine at manufacturing factory must be submitted to the SI/PSI team for each model. 2. If Engine Test Bench Report of all engines can not be submitted, in that case, for other engines of the same model must be certified and confirmed with the engine Test Bench Report (mentioning engine number) by the manufacturer duly signed and stamped.	
	p. Cooling system	Liquid cooled	
	q. Compatibility	Engine to be compatible to run with the diesel available in Bangladesh	
	r. Power to Weight Ratio	13 Hp/Ton (Minimum)	
	s. Emission Standard	Euro-3	
24.	Fuel System.		
	a. Type of Fuel	Diesel	
	b. Fuel Tank Capacity (litre)	250 litre (Minimum)	
	c. Litre/hour (On Static Operation)	To be mentioned	
	d. Litre/100 km (On Plain Road)	To be mentioned	
	e. Fuel Injection Pump	Type to be mentioned	
	i. Country of Origin	To be mentioned	
25.	Air Condition in Driver's Cabin.	To be provided	
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group-A	
26.	Front Axle.		
	a. Type	To be mentioned	
	b. Axle Capacity	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
27.	Rear Axle.		
	a. Type	To be mentioned	
	b. Axle Capacity	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	e. Load at Rear 2 axles	To be mentioned	
	f. Number of Tyres at Rear Two Axles	To be mentioned	
28.	Ground Pressure (Kg/Square cm)	To be mentioned	
29.	Transmission.		
	a. Type	Manual/ Mechatronics	
	b. Make & Model	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	f. Number of Gears (including reverse)	To be mentioned	
	g. Gear ratio	Gear wise ratio to be mentioned	

Serial	Description of General specifications	Required General Specifications	Remark
30.	Transfer Case.		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group-A	
	c. Country of Manufacturer	Group-A	
	d. Country of Assembly	Group-A	
31.	Differential Lock/Limited Slip Differential (LSD)	To be mentioned	
32.	Suspension.		
	a. Front		
	b. Rear	Details to be mentioned	
33.	Brake System.	Details to be mentioned	
	a. Main Brake	To be mentioned	
	b. Parking Brake	Details to be mentioned	
	c. Any other Brake System	To be mentioned	
34.	Steering	To be mentioned	
35.	Tyre.	Power Steering	
	a. Tyre Size	To be mentioned	
	b. Tyre Brand	Bridgestone/Dunlop/Goodyear/ Yokohama / Toyo/ Uniroyal/ Continental/ Michelin/ Folda/ Firestone/Armstrong/ AMTEL/ Pirelli/ Hankook and Kumho	
	c. Country of Origin	USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines Singapore, Thailand and South Korea	
	d. Tyre type/ pattern	Non-directional (ND) Ground Grip (GG) and Cross country (CC).	
	e. Number of Tyres including Spare Tyre	To be mentioned	
36.	Rim size	To be mentioned	
37.	Clutch	Details to be mentioned	
38.	Chassis Frame.		
	a. Type	To be mentioned	
	b. Country of Origin	Group-A	
	c. Country of Manufacturer	Group-A	
	d. Country of Assembly	Group-A	
	e. Length (mm)	To be mentioned	
	f. Width (mm)	To be mentioned	
	g. Height from Ground (mm)	To be mentioned	
	h. Thickness of Chassis (mm)	To be mentioned	
	i. Chassis GVW	10 mm (Minimum)	
	k. Chassis frame Resistance to Bending Moment (RBM)	To be mentioned (Manufacturer's certificate to be supplied with details calculation)	
39.	Electric System.		
	a. Voltage	24 Volts	
	b. Battery		
	(1) Number of Battery	02	
	(2) Volt and AH	12 Volt & AH to be mentioned	
	c. Alternator (Volt and Amp)	24 Volt & Amp to be mentioned	
	d. Starter (Volt and KW)	24 Volt & KW to be mentioned	
40.	Vehicle Tools & Accessories.		



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Serial	Description of General specifications	Required General Specifications	Remark
	a. 01 x Fire Extinguisher ABC&E Type 03 kg (Minimum) with carrier (origin to be mentioned)	To be provided	
	b. Spare Wheel with Lifting Facilities (Mechanical/ Hydraulic)	To be provided	
	c. Rear view camera with LCD display for driver	To be provided	
	d. Double Jarrican Carrier	To be provided	
	e. Tyre Inflator set complete with high pressure hose, adaptor, pressure gauge & nozzle (from main air compressor to all wheels)	To be provided	
	f. Two Speed Windscreen Wipers with Incorporated Washer and Intermittent Type	To be provided	
	g. Sun Visors	To be provided and Number to be mentioned	
	h. 02 x Rear View Mirrors Outside	To be provided	
	i. 01 x Rear View Mirror Inside	To be provided	
	k. Drivers & Co-drivers Seat Belt	To be provided	
	l. Hydraulic Jack 25 Ton with Handle	To be provided	
	m. Inspection Lamp Complete with min 10 Meter Cable + Plug & Socket	To be provided	
	n. Wheel Wrench with Handle	To be provided	
	p. 01 x Amber colour rotating or flashing light or light bar (mounted on the cabin roof/ equal height – must be visible from 360 degrees)	To be Provided	
	q. 02 x Towing Hooks at Front (capacity to be mentioned)	To be provided	
	r. 01 x Pintle hook at rear for towing (Rotary type)	Towing attachment including NATO towing pintle, Electrical 12 pin socket & air coupling to be provided	
	s. Rear/ back warning buzzer	To be provided	
	t. 01 x set of Jumper Cables	To be provided	
Wrecker Specification			
41.	Wrecker.		
	a. Make & Model	To be mentioned	
	b. Brand	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	f. Operating System	Hydraulic (Country of Origin Group-A)	
	g. Number of Boom	To be mentioned	
	h. Number of section in each Boom	To be mentioned	
	j. Boom/Turret Rotation (Degree)	270° (Minimum)	
	k. Type of Boom	Telescopic or any other advanced system	
	l. Boom Extension speed (meter/ min)	To be mentioned	
42.	Boom (Retracted).		
	a. Boom Length (M)	To be mentioned	
	b. Maximum Load Radius (M)	To be mentioned	
	c. Maximum Lifting Height on Hook (M)	4 meter (Minimum)	
	d. Lifting Capacity	10 Ton (Minimum)	

RESTRICTED

Serial	Description of General specifications	Required General Specifications	Remark
43.	Boom (Full Extended).		
	a. Length of Boom (M)	Minimum 7 meters	
	b. Maximum Load Radius (M)	To be mentioned	
	c. Maximum Lifting Height on Hook (M)	To be mentioned	
	d. Maximum Boom Lifting Angle (Angle of Tilt in degree)	60° (Minimum)	
	e. Lifting Capacity	5 Ton (Minimum)	
	f. Rear Lifting Capacity at Maximum Working Distance	To be mentioned	
	g. Side Lifting Capacity at maximum Working Radius	To be mentioned	
	h. Lifting Working Sector (In degree)	To be mentioned	
	i. Lifting Performance Graph	To be provided	
44.	Pulling/ Recovery Winch or Equivalent.		
	a. Number of Winch	To be mentioned (with check tackle capabilities)	
	b. Cable Length (M)	60 Meters (Minimum)	
	c. Cable Diameter (mm)	16 mm (Minimum)	
	d. Pulling capacity at 1 st layer of cable	15 Ton (Minimum)	
	e. Winch Drum/ Barrel Diameter (mm)	To be mentioned	
	f. Winch Cable construction	Number of strands, construction material, twist direction, anti rust property etc to be mentioned	
45.	Hoist/ Boom Winch or Equivalent.		
	a. Number of Winch	To be mentioned	
	b. Capacity	10 Ton (Minimum)	
	c. Cable Length (M)	60 Meter (Minimum)	
	d. Cable Diameter (mm)	16 mm (Minimum)	
	e. Winch Drum/ Barrel Diameter (mm)	To be mentioned	
	f. Winch Cable construction	Number of strands, construction material, twist direction, anti rust property etc to be mentioned	
46.	Outriggers.		
	a. Number	04 Nos (Minimum)	
	b. Type	Hydraulically operated (PTO to be operated from out side of driver's cabin, may be on wrecker body)	
47.	Towing Capacity.	8-10 Ton	
48.	Wrecker Accessories.		
	a. 06 x Welded load/ transport chains with grab hooks at both ends (Grade 100, Length 5 meter each, Diameter 15.8 mm, Capacity minimum 2 ton each)	To be provided	
	b. 02 x Hoisting belts/ safety straps (Length 5 meter each, Width 76 mm minimum, Capacity minimum 3 ton each)	To be provided	
	c. 02 x Spare cable/Extension cable (Length 15 meter each, Diameter 15.8 mm, Capacity 16 ton each)	To be provided	
	d. 01 x Broom	To be provided	
	e. 02 x Sledge Hammer (4 – 7 Kg)	To be provided	



RESTRICTED

Serial	Description of General specifications	Required General Specifications	Remark
	f. 01 x Bolt Cutter (minimum opening of 10 mm)	To be provided	
	g. 02 x Tailboard D Rings (attached to wrecker tail board)	To be provided	
	h. 06 x Snatch Blocks (04 x Single sheve & 02 x Double sheve) with 360° Swivel neck and Sling Hook with safety latch suitable to the cable used in the winch/winchs	To be provided	
	j. Rope/Cable Fittings. (All to be suitable for the cables used in the wrecker) i. 08 x Thimbles ii. 04 x Double throat clamp iii. 10 x Bulldog Grip iv. 02 x Strainig Screw v. 04 x Cable/ Rope Grab	To be provided	
	k. 02 x Livers (762 mm size)	To be provided	
	l. 02 x Pry-bar/ Crew Bar (762 mm size)	To be provided	
	m. Anchors i. 02 x Ground hold fast anchor (Length 1.3/1.5 Meter, Plate thickness 10 mm, Hole diameter 50 mm, number of holes 12) ii. 01 x Triangular anchor (Size 914 mm x 914 mm x 914 mm, Plate thickness 12 mm, Hole diameter 50 mm, number of holes 10) iii. 02 x Wooden Dead man anchor (Diameter 250 mm minimum & Length – 1.8/2 meters)	To be provided	
	n. Shackles i. 04 x D type (Grade 100, Diameter 19 mm, Length 100 mm, suitable to use with the chains explained in 48 a above) ii. 08 x Bow type (Grade 100, Diameter 19 mm, Length 100 mm, suitable to use with the chains explained in serial 48 a above)	To be provided	
	p. 20 x Anchor pin (Diameter 38 mm, Length 914 mm, Capacity 01 ton, Should have suitable head for hammering with sledge hammers and should have hole to use anchor pin remover)	To be provided	
	q. 02 x Anchor pin remover (Diameter 25.4 mm, Length 914 mm, Capacity 01 ton, Should have suitable point at one end to use through anchor pin holes in order to remove from ground)	To be provided	
	r. 02 x Square Shovels (standard size)	To be provided	
	s. 02 x Spades (standard size)	To be provided	
	t. 06 x Safety Vests	To be provided	
	u. 12 x Pair of Double faced Leather Gloves	To be provided	
	v. 02 x Warning/ Reflecting Triangle	To be provided	

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Serial	Description of General specifications	Required General Specifications	Remark
	w. 01 x Saw (Length 914 mm to 1220 mm)	To be provided	
	x. 01 x Hand saw (457 mm)	To be provided	
	y. 02 x Handheld Search Light (Rechargeable of reliable brand)	To be provided	
	z. 06 x Traffic Cones	To be provided	
	aa. Spur Gear Chain Block (10 Ton Capacity)	To be provided	
	bb. 02 x Traffic safety baton light	To be provided	
	cc. 08 x Wooden roller (Diameter 100 mm & Length 600 mm)	To be provided	
	dd. 08 x Wooden Plank/Gun Plank (Thickness 50 mm minimum, L x W = 600 mm x 350 mm)	To be provided	
	ee. 06 x Industrial Helmets	To be provided	
	ff. 1 x Hand Axe	To be provided	
	gg. 2 x Scotch Block/ Wheel Stopper	To be provided	
	hh. 01 x Four way Lug wrench	To be provided	
	jj. Any other item which the manufacture feels necessary to be equipped with the wrecker	To be provided	
*Items Serial 48 (a, b, c, e, f, g, h, j, n, p, q, aa and gg) should be of OEM or Group A country origin			
49.	Tunnel/Modular type tools and accessories Compartment/ Lockers for: (a) Tools (b) Chains and snatch blocks with hanging bar facilities (c) Anchors and anchor pins (d) Under lift/Casualty towing attachment accessories (e) Other wrecker accessories	To be provide. All compartments/Lockers should have manufacturer's standard internal lights, weather sealing and locking devices.	
50.	Casualty Towing Attachment (To Carry Vehicles and Equipment Casualty after Recovery A-shaped attached frame must be included)	To be provided (Construction, structure and operation procedure details to be mentioned)	
51.	Seating Capacity and Arrangement for Crew	To be mentioned	
52.	Standard Maintenance Tools & any Others Accessories (If required)	List of tools to be provided (This list must be based on operating manual and other publications of the offered equipment/vehicle)	
53.	Miscellaneous Items.		
	a. Weapon Stowages for BD 08 or equivalent	02 x Inside Cabin	
	b. Over Load Protection Valve	Overload protection valve to be available for safety of the hydraulic systems when the pulling/lifting load is more than specified capacity	
	c. Blackout Lights	1.02 x Blackout light at front 2. 02 x Blackout light at rear 3. 01 x Blackout convoy light 4. 01 x Blackout driving light	
	d. First Aid Box (16 persons unitized gaskated metal box)	To be provided	
	e. 02 x Search Light/Flood Light on cabin/wrecker body for Night Recovery Operation (LED Preferable, Watt and Lumen to be mentioned)	To be provided	



RESTRICTED

Serial	Description of General specifications	Required General Specifications	Remark
	f. 01 x Search light/ Flood Light with Boom/Hoist for night recovery operation (LED Preferable, Watt and Lumen to be mentioned)	To be provided	
	g. Light guards	Light protection guards for all outside lights to be provided	
	h. Hand rails on both sides of wrecker body for easy mount and dismount	To be provided	
54.	Colour	As per Indenter's requirement	
55.	<u>Petrol Oil Lubricant (POL) Information.</u>	The following information must be submitted with the offer:	
	a. Grade of fuel used in Vehicle	To be mentioned	
	b. Type of Engine Oil used in Vehicle	To be mentioned	
	c. Type of gear Oil (Equivalent grade) used in vehicle	To be mentioned	
	d. Grade of fuel to be used in Bangladesh	The vehicle must be suitable for used with fuel available in Bangladesh	
56.	<u>Training Requirements.</u>		
	a. User Training	To be provided (As per requirement of User/ Sponsor Directorate)	
	b. Operation, Repair and Maintenance Training	To be provided (As per requirement of Electrical and Mechanical Engineers Directorate)	
	c. Inventory Control & Management Aspect Training	To be provided (As per requirement of Ordnance Directorate)	
57.	<u>Repair and Maintenance Requirements Less List of Spares.</u>		
	a. Owners/Operators Manual in English (Book Type) including CD/DVD	To be provided (As per requirement of Electrical and Mechanical Engineering Directorate)	
	b. Workshop/Repair Manual in English (Book Type) including CD/DVD	To be provided (As per requirement of Electrical and Mechanical Engineering Directorate)	
	c. 100% Updated Master Spare Parts Catalogue in English (Book Type) including	To be provided (As per requirement of Electrical and Mechanical Engineering Directorate)	
	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 Engineering Directorate)	
58.	Recommended 5% fast and slow moving spare parts list (Hard copy)(fast moving for 2 years and slow moving for 5 years) including CD/ DVD	To be provided	
59.	<u>Tool List for Different Level of Maintenance.</u>		
	a. Special Services Tools (SST)/ Measuring & Testing/Fault Finding and Diagnostic Set	To be provided (As per requirement of Electrical and Mechanical Engineers Directorate)	

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Serial	Description of General specifications	Required General Specifications	Remark
	b. Special Services Materials (SSM)	To be provided (As per requirement of Electrical and Mechanical Engineering Directorate)	
	c. Analyzer, measuring & testing/fault finding and diagnostic set	To be provided as per requirement of EME Dte	
Terms and Conditions.			
60.	Validity of Model	Minimum 10 years	
61.	Provision of Supply of Spares	Minimum 15 years	
62.	Whether the Local Firm can Render Repair and Maintenance Support Locally	Details to be mentioned (if available)	
63.	Time of Free Service	1 Year	
64.	Warranty/Guarantee	1 Year from the date of receipt of equipment by user unit after accepted by IV&EE	
65.	Technical Offer should be on the Original Pad of Principal/Manufacturer with Sign and Seal, all technical parameters should be supported by detail diagram of wrecker, original brochure and other documents	To be submitted	
66.	Authorization Certificate to be Provided by Manufacturer in Favour of Principal	To be submitted	
67.	Authorization Certificate to be Provided by principal in favour of local agent	To be submitted	
68.	After Sales service, Repair and Maintenance by local agent	Details to be mentioned	
69.	Production Date	Manufactured not before the year of contract	
70.	Boom(s) must be constructed as to be compatible with winch rating and must be capable of being adjusted to accomplish proper weight distribution	Manufacturer's Certificate to be provided	
71.	Preferably/ availability of the vehicle in the Armies of group A countries	Manufacturer's Certificate with statistics to be provided	
72.	Total unit of similar model equipment manufactured so far	Manufacturer's Certificate with statistics to be provided	
73.	Total unit of similar model equipment sold so far	Manufacturer's Certificate with statistics to be provided	
74.	User satisfaction certificate	To be provided	
75.	Any other	To be mentioned	

