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05 Bhadra 1430

06.06.0000.214.eval.23/Forklift Rough Terrain

20 August 2023

**EVALUATION/ RE-EVALUATION OF FORKLIFT ROUGH TERRAIN (10 -15 TON) CATEGORIZE-1 (MAST TYPE)**

Reference:

A. Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate letter number 23.01.901.048.20.079.04.17.08.23 Dated 17 August 2023.

1. Please be informed that, Bangladesh Army is planning to procure Forklift Rough Terrain (10 -15 Ton) Categorize-1 (Mast Type) for Bangladesh Army. In this regard, you are requested to provide offer, Brochure, Catalogue, technical/training/ operational/maintenance manuals and budgetary offers along with 100% updated original spare parts catalogue (Hard & Soft copy) etcetera for evaluation/re-evaluation of models Forklift Rough Terrain (10 -15 Ton) Categorize-1 (Mast Type). Offered models should be compatible with general technical specification attached herewith and submits directly to Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate, Dhaka Cantonment by **10 September 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 Forklift Rough Terrain (10 -15 Ton) Categorize-1 (Mast Type) - 04 (Four) Pages only.

Distribution:

External:

Action:

(All Concerned Supplier/Firm)

Information:

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

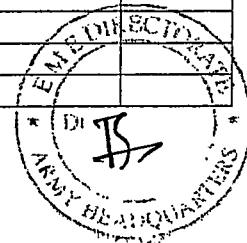
IT Section - (For sending to enlisted Supplier/Firm with DGDP through e-mail). Also publish in web site.

Notice Board

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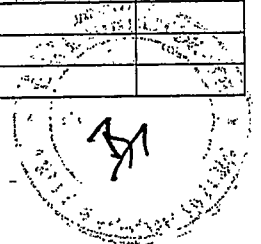
**GENERAL TECHNICAL SPECIFICATIONS: FORKLIFT ROUGH TERRAIN (10-15 TON) CAT-1  
(MAST TYPE)**

Serial	Description of Technical specifications	Required Technical Specifications	Remark
1.	Name of the Local Agent with full Address	To be mentioned	
2.	Name of the Manufacturer with full Address	To be mentioned	
3.	Name of the principal with full address	To be mentioned	
4.	Nomenclature	Forklift Rough Terrain (10-15 Ton) Cat-1 (Mast Type)	
5.	Make & Model	To be mentioned	
6.	a. Country of Origin	Group-B	
	b. Country of Manufacturer	Group-B	
	c. Country of Assembly	Group-B	
7.	Year of Manufacture	Not before the year of contract	
8.	Type of Drive	Centre drive	
9.	Drive Configuration	To be mentioned	
10.	<b>Forklift Characteristic</b>		
	a. Type	Mast Type	
	b. Lift Capacity	Minimum 10 Tons at minimum 04 m height with multi stage	
	c. Lift Height	Minimum 04 m with multi stage	
	d. Load Center	To be mentioned	
	e. Control Type	To be mentioned	
	f. Maximum Fork height	To be mentioned	
11.	<b>Overall Dimension (L X W X H)</b>		
	a. Length (with attachment) (mm)	To be mentioned	
	b. Length (without attachment) (mm)	To be mentioned	
	c. Width (mm)	To be mentioned	
	d. Height (Overhead Guard) (mm)	To be mentioned	
	e. Overall height ( With fork at lowest position/Mast at retracted position)	To be mentioned	
	f. Length to fork face	To be mentioned	
12.	Wheel Base (mm)	To be mentioned	
13.	Number of wheels at front	To be mentioned	
14.	<b>Fork (as attachment)</b>		
	a. Fork size (L x W x T) (Long type)	To be mentioned	
	b. Operation	Hydraulic	
	c. Fork displacement (In closed position)	Maximum 550 mm	
	d. Fork displacement (Fully extended outward)	To be mentioned ( Capable of lifting 20 feet ISO container)	
	e. Side shifter	To be mentioned	
	f. Fork positioner	To be mentioned	
15.	<b>Mast</b>		
	a. Type	To be mentioned	
	b. Number of section	To be mentioned	
	c. Height (Fully extended)	To be mentioned	
	d. Height (Fully Retracted)	To be mentioned	
16.	<b>Electric System</b>		
	a. Volt	To be mentioned	
	b. Battery (Volt & AH)	To be mentioned	
	c. No of Battery	To be mentioned	
	d. Alternator (Volt/Amp)	To be mentioned	
	e. Starter (Volt KW)	To be mentioned	
17.	<b>Engine</b>		
	a. Make & Model	To be mentioned	
	a. Country of Origin	Group-B	
	b. Country of Manufacturer	Group-B	
	c. Country of Assembly	Group-B	
	d. No of cylinder	To be mentioned	



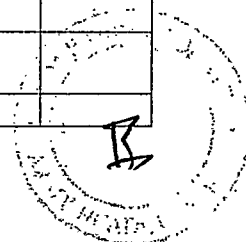
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Serial	Description of Technical specifications	Required Technical Specifications	Remark
	e. Horse Power (HP) with rpm	Minimum 110 HP, rpm to be mentioned	
	f. Torque (N-m) with rpm	Minimum 400 N-m, rpm to be mentioned	
	g. Piston Displacement	To be mentioned	
	h. Bore & Stroke (in mm)	To be mentioned	
	i. Cooling system	Liquid cooled	
	m. Compression Ratio	To be mentioned	
	p. Turbo charger (available or not)	To be mentioned	
	q. Engine Test Bench Certificate	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.	
	r. Emmission Standard	Euro-3 or equivalent	
18.	<b>Fuel System</b>	Details to be mentioned	
	a. Type of Fuel	Diesel	
	b. Fuel tank capacity	To be mentioned	
	c. Fuel injection pump	To be mentioned	
	d. <b>Fuel Consumption.</b>		
	(1) 100 km during movement on road	To be mentioned	
	(2) Liter per hour while operating	To be mentioned	
19.	<b>Performance</b>		
	a. <b>Speeds</b>		
	(1) Travel speed maximum (With load/ without load)	To be mentioned	
	(2) Lifting speed (With load/ without load)	To be mentioned	
	(3) Lowering speed (With load/without load)	To be mentioned	
	b. Operating Temperature	Within -5° to +55°	
	c. Turning Radius (Minimum-in mm) from outer wheel	To be mentioned	
	d. Maximum grade ability (With load/without load)	To be mentioned	
20.	Kerb weight	To be mentioned	
21.	Pay Load	To be mentioned	
22.	GVW (Gross Vehicle Weight)	To be mentioned	
23.	<b>Tyre</b>		
	a. No of wheel at front	To be mentioned	
	b. No of wheel at rear	To be mentioned	
	c. Front wheel size	To be mentioned	
	d. Rear wheel size	To be mentioned	
	e. Tyre Brand	Bridgestone/Dunlop/Goodyear/ Yokohama /Toyo/ Uniroyal/Continental/Michelin/Folda/ Firestone/ Armstrong/ AMTEL/Pirelli/ Hankook and Kumho	
	f. Country of Origin	USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines Singapore, Thailand and South Korea	
	g. Tread Pattern	Non-directional (ND) Ground Grip (GG) and Cross country (CC).	
24.	<b>Tread</b>		
	a. Front	To be mentioned	
	b. Rear	To be mentioned	
25.	<b>Ground Clearance</b>		
	a. With Load	240 mm (Minimum)	
	b. Without Load	To be mentioned	



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Serial	Description of Technical specifications	Required Technical Specifications	Remark
26.	<b>Brake System</b>		
	a. Service	To be mentioned	
	b. Parking	Details to be mentioned	
	c. Other braking system(if any)	To be mentioned	
27.	<b>Transmission.</b>		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group-B	
	c. Country of Manufacturer	Group-B	
	d. Country of Assembly	Group-B	
	e. Gear Ratio	To be mentioned	
	f. No of gear with reverse	To be mentioned	
28.	<b>Transfer Case.</b>		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group-B	
	c. Country of Manufacturer	Group-B	
	d. Country of Assembly	Group-B	
29.	<b>Chassis.</b>		
	a. Type	To be mentioned	
	b. Country of Origin	Group-B	
	c. Country of Manufacturer	Group-B	
	d. Country of Assembly	Group-B	
30.	<b>Front Axle.</b>		
	a. Type	To be mentioned	
	b. Axle Capacity	To be mentioned	
	c. Country of Origin	Group-B	
	d. Country of Manufacturer	Group-B	
	e. Country of Assembly	Group-B	
31.	<b>Rear Axle.</b>		
	a. Type	To be mentioned	
	b. Axle Capacity	To be mentioned	
	c. Country of Origin	Group-B	
	d. Country of Manufacturer	Group-B	
	e. Country of Assembly	Group-B	
32.	Steering system	Power steering	
33.	Air condition in Operator/ Drivers Cabin	To be provided	
34.	Standard maintenance Tools	List of tools to be provided (This list must be based on operating manual and other publications of the offered equipment/vehicle)	
35.	Accessories (if available)	To be mentioned	
36.	Hydraulic tank capacity	To be mentioned	
37.	Clutch	To be mentioned	
38.	<b>Petrol Oil Lubricant (POL) Information.</b>	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. Type of Hydraulic Oil (Equivalent grade) used in vehicle	To be mentioned	
	e. Grade of fuel to be used in Bangladesh	The vehicle must be suitable for used with fuel available in bangladesh	
39.	Colour	As per indentor requirements	
40.	<b>Publications</b>		
	a. Driver's/Owner's manual in English for Vehicle (Complete Book type)	To be provided as per requirement of EME Directorate	
	b. Updated workshop/repair manual (for vehicle) in English (Complete Book type.	To be provided as per requirement of EME Directorate	
	c. Spare Parts Catalogue in English	To be provided as per requirement of EME	



## RESTRICTED

Serial	Description of Technical specifications	Required Technical Specifications	Remark
	Book type.	Directorate	
	d. Spare Parts Price Catalogue in English Book type.	To be provided as per 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 requirement of EME Directorate	
41.	Fast and slow moving spare parts	To be provided as per requirement of EME Directorate	
42.	Analyzer, measuring & testing/fault finding and diagnostic set	To be provided as per requirement of EME Directorate	
43.	Special Service Tools (SST)	To be provided as per requirement of EME Directorate	
44.	Special Service Materials (SSM)	To be provided as per requirement of EME Directorate	
45.	<b><u>Training Requirements.</u></b>		
	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)	
46.	<b><u>Terms and Conditions.</u></b>		
	a. Time of Free Service	1 Year	
	b. Warranty/Guaranty	1 Year or 20,000 KM	
	c. Technical offer should be on the original pad of principal/ manufacturer with sign & seal	Must be confirmed as per requirement	
	d. Offered technical specifications must conform to the specifications mentioned in the submitted brochure/catalogue otherwise offer will not be accepted	To be submitted during evaluation stage	
	e. Authorization certificate (Original) in favour of principal by the original vehicle manufacturer to be submitted along with offer	To be submitted during evaluation stage	
	f. Authorization certificate (Original) in favour of local agent by the principal to be submitted along with offer	To be submitted during evaluation stage	
	g. The Manufacturer, Principal and local agent must give a guarantee certificate for the following	To be submitted during evaluation stage	
	(1) Same/similar model of vehicle/ equipment will be available for next 10 years (Confirmation certificate to be provided by manufacturer)	To be submitted during evaluation stage	
	(2) Spares will be available for at least 15 years (Confirmation certificate to be provided by Manufacturer)	To be submitted during evaluation stage	
	(3) After sales service should be available with local agent and will be provided as and when required for indefinite period (at free of charge up to guarantee period) and then onwards with payment (Confirmation certificate to be provided by local agent)	To be submitted during evaluation stage	
47.	Production Date	Manufactured not before the year of contract	

