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06.06.0000.214.Re-eval.22/Truck Tractor

13 April 2023

BOARD OF OFFICER - EVALUATION OF TRUCK TRACTOR (41-60 TONS) FOR UN MISSION

Reference:

A. Army Headquarters, Quarter Master General Branch, Supply and Transport Directorate letter number 23.01.901.043.03.01.079.01.10.04.23 Dated 10 April 2023.

1. Please be informed that, Bangladesh Army is planning to procure Truck Tractor (41-60 Tons) 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 Truck Tractor (41-60 Tons). 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 Truck Tractor (41-60 Tons) - 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.

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TECHNICAL SPECIFICATION - TRUCK TRACTOR (41 TO 60 TONS)

Ser	Nomenclature/Description	Specification Specified	To be filled up by the Manufacturer
1.	Name of the Equipment	Truck Tractor (41-60 Ton)	
2.	Make & Model of complete equipment	To be mentioned	
3.	Name and Address of Manufacturer	To be mentioned	
4.	Name and Address of Principal	To be mentioned	
5.	Name and Address of Local Agent	To be mentioned	
PRIME MOVER			
6.	Make and Model	To be mentioned	
7.	a. Country of Origin	Gp-A/B/C	
	b. Country of Manufacturer		
	c. Country of Assembly		
8.	Year of Manufacturer	Not before the year of contract.	
9.	Drive and configuration	RHD, 6x6	
10.	DIMENSIONS		
10.	a. Overall length	To be mentioned	
	b. Overall width	To be mentioned	
	c. Overall height	To be mentioned	
	d. Front over hang	To be mentioned	
	e. Rear over hang	To be mentioned	
	f. Cabin height	To be mentioned	
	g. Tread Front	To be mentioned	
	h. Tread Rear	To be mentioned	
11.	Gross vehicle weight	30 Ton (Minimum)	
12.	Kerb weight	To be mentioned	
13.	Pay Load	To be mentioned	
14.	Weight on the 5 th wheel	To be mentioned	
15.	Ground clearance (From the lowest portion)	Minimum 300 mm	
16.	Wheel base	To be mentioned	
17.	Turning radius (Kerb to Kerb)	10m (Maximum)	
18.	Angle of approach	25° (Minimum)	
19.	Angle of departure	30°(Minimum)	
20.	Grade ability with prescribed GCW (Gross Combination Weight)	30% (Minimum)	
21.	Fording depth	600 mm (Minimum)	
22.	Gross Combination Weight (Kerb weight of prime mover + kerb weight of semi trailer + maximum pay load of semi trailer)	To be mentioned	
23.	Engine.		
23.	a. Make and Model	To be mentioned	
	b. Type	Diesel Engine with Turbo Charger	
	c. Country of Origin	Gp-A/B/C	
	d. Country of Manufacture		
	e. Country of Assembly		
	f. Year of production	Not before the year of contract	
	g. No of Cylinder	Minimum 6	
	h. Displacement	Minimum 12 L	
	j. Horse power with RPM	400 HP (Minimum) RPM to be mentioned	
	k. Torque with RPM	Minimum 1500 Nm (RPM To be Mentioned)	
	l. Fuel injection pump type	To be mentioned	
	m. Compression ratio	To be Mentioned	
	n. Cooling system	Liquid cooled	
	p. Bore & Stroke	To be mentioned	
	q. Engine test bench certificate	During Inspection, "Engine Test Bench Report" (for each model) which was prepared by manufacturer during production of engine at factory premises must be produced and submitted to the Inspection team (duly signed and stamped by the manufacture). Other engines (mentioning engine number) of the same model must be certified confirming the "Engine Test Bench Report" by	

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Ser	Nomenclature/Description	Specification Specified	To be filled up by the Manufacturer
		the manufacturer (duly signed and stamped).	
	r. Engine life before 1st overhaul	1,00,000 km	
24.	Fuel System		
	a. Type of fuel	Diesel	
	b. Fuel tank capacity	400 L (Minimum)	
	c. Fuel consumption	To be mentioned	
	d. Cruising range	500 km (Minimum)	
25.	Power/ Weight ratio	13:1 (Minimum)	
26.	Windshield glass type	Laminated	
27.	Cab type with details		
	a. Cab Type	Tilting cab with Air Conditioned	
	b. Country of origin, manufacturer & assembly for AC	Gp-A/B/C	
	c. Make & Model of AC	To be mentioned	
	d. Capacity of AC	To be mentioned	
	e. Weapon storage for 02xCrew Operator	To be mentioned	
28.	Clutch		
	a. Make and Model	To be mentioned	
	b. Type	To be mentioned	
	c. Diameter	To be mentioned	
29.	Tyre		
	a. Tyre brand	Bridgestone/ Dunlop/ Good year/ Yokohama/ Uniroyal/ Continental/ Michelin/ Toyo/ Folda/ Firestone/ Armstrong/ AMTEL/ Pirelli/ Hankook/ Kumho	
	b. Tyre Size	To be mentioned	
	c. No of Tyre incl Spare tyre	To be mentioned	
	d. Tyre Type (Tread design)	Non-Directional, Ground Grip, Cross Country (ND, GG, CC)	
	e. Rim Size	22.5"	
	f. Country of Origin	Gp-A/B/C	
30.	Axle :		
	a. No. of Axle	To be mentioned.	
	b. Front Axle.		
	(1) Make	To be mentioned.	
	(2) Type	To be mentioned.	
	(3) Country of Origin, Manufacturer & Assembly	Gp-A/B/C	
	c. Middle Axle.		
	(1) Make	To be mentioned.	
	(2) Type	To be mentioned.	
	(3) Country of Origin, Manufacturer & Assembly	Gp-A/B/C	
	d. Rear Axle.		
	(1) Make	To be mentioned.	
	(2) Type	To be mentioned.	
	(3) Country of Origin, Manufacturer & Assembly	Gp-A/B/C	
	e. Axle capacity of 3 axle (Front, Middle & Rear)	To be provided	
31.	Differential Lock	To be provided (All axle preferable)	
32.	Transmission.		
	a. Make & Model	To be mentioned	
	b. Country of origin, manufacturer & assembly	Gp-A/B/C	
	c. Type of Gear	To be mentioned	
	d. No of Gear shift	To be mentioned	
	e. All Gear ratio	To be mentioned	
33.	Chassis Frame.		
	a. Country of Origin	Gp-A/B/C	
	b. Country of Manufacture		
	c. Country of Assembly		
	d. Type	To be mentioned (Parallel section high tensile steel)	
	e. Length, width, height and thickness of chassis frame	To be mentioned. Diagram/catalogue to be provided with offer.	
	f. Chassis frame Resistance to Bending Moment	The truck chassis must be capable to resist the bending movement of the Prime Mover with payload.	

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Ser	Nomenclature/Description	Specification Specified	To be filled up by the Manufacturer
		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.	Transfer Case.		
	a. Make and model	To be mentioned	
	b. Transfer case country of origin, manufacturer & assembly	Gp-A/B/C	
	c. Transfer case gear ratio	To be mentioned	
35.	Suspension.		
	a. Front type	To be mentioned	
	b. Rear type	To be mentioned	
36.	Brake System.		
	a. Service brake	Fully pneumatic system, front disc and rear drums preferably ABS+EBL (Rear)	
	b. Parking brake	To be mentioned	
	c. Exhaust brake (If any)	To be mentioned	
	d. Emergency Brake (If any)	To be mentioned	
	e. Trailer Brake	To be mentioned	
37.	Steering type	Hydraulic assisted power steering	
38.	Electric System.		
	a. Voltage	24 Volts	
	b. Battery (Qty, Volt & AH)	2x 12 Volts, AH to be mentioned	
	c. Alternator (Volt & Amp)	To be mentioned	
	d. Starter (KW & Volt)	To be mentioned	
39.	Power Take Off (P.T.O)		
	a. Make & Model	To be mentioned	
	b. Torque	To be mentioned	
	c. Country of Origin, Manufacturer & Assembly	Gp-A/B/C	
40.	Winch.		
	a. Make & Model	To be mentioned	
	b. Capacity	To be provided	
	c. Country of Origin, Manufacturer & Assembly	Gp-A/B/C	
	d. Rope length & Dia	To be mentioned	
	e. Drum, Soft, guide roller	To be mentioned	
41.	Fifth Wheel.		
	a. Make & Model	To be mentioned	
	b. Towing Capacity	To be mentioned	
	c. Size of kin pin	3.5"	
42.	Hooks.		
	a. Towing hook	02 at front (Capacity to be mentioned)	
	b. Pintle hook	NATO type rotary pintle hook at rear to be provided (Capacity: Minimum 10 Ton. Height from ground to be mentioned)	
Semi-Trailer			
43.	Make & Model	To be mentioned	
44.	a. Country of Origin	Gp-A/B/C	
	b. Country of Manufacture		
	c. Country of Assembly	Gp-A/B/C	
	d. Year of production (Semi-Trailer)	Not before the year of contract	
45.	Kerb weight of Semi-trailer	To be mentioned	
46.	Pay load	Minimum 60 Ton	
47.	Goose Neck Dimension.		
	a. Length	To be mentioned	
	b. Width	To be mentioned	
	c. Height (ground to lower portion)	To be mentioned	
	d. King Pin Size	3.5"	
	e. Distance from King Pin Center to Front End of Semi- Trailer	To be mentioned	
48.	Load Distribution (Prime Mover & Semi-Trailer in Assembled Condition).		
	a. On King Pin.		
	(i) Without Pay Load	To be mentioned	
	(ii) With Pay Load	To be mentioned	
	b. On Axles of Semi-Trailer		

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Ser	Nomenclature/Description	Specification Specified	To be filled up by the Manufacturer
	(i) Without Pay Load	To be mentioned	
	(ii) With Pay Load	To be mentioned	
49.	Ramp.		
	a. Type	Hydraulic & Mechanically operated foldable nonskid sheet	
	b. Slope of ramp	To be mentioned	
	c. Height of ramp during travelling	To be mentioned	
	d. Steel (Anti skid) bars on ramps and Trailer bed (partly)	To be provided	
	e. Operation of ramp mechanism	Hydraulic & Mechanically operated foldable nonskid sheet	
50.	Tyres.		
	a. Tyre Size	To be mentioned	
	b. Brand	Bridgestone/ Dunlop/ Good year/ Yokohama/ Uniroyal/ Continental/ Michelin/ Toyo/ Folda/ Firestone/ Armstrong/ AMTEL/ Pirelli/ Hankook/ Kumho	
	c. Tyres Tread Pattern	Non-Directional, Ground Grip, Cross Country (ND, GG, CC)	
	d. Tyre Arrangement	To be mentioned	
	e. Rim Type/Size	To be mentioned	
	f. Tyre Manufacturer	Gp-A/B/C	
51.	Axle.		
	a. Type	To be mentioned	
	b. Country of Origin, Manufacturer and Assembly	Gp-A/B/C	
	c. No of Axle of Semi-Trailer	05 Numbers (Minimum)	
	d. Capacity of each axle	To be mentioned	
	e. Weight on each Axle (Will be tested on bridge scale with full payload)	Maximum 12 Ton	
	f. Distance Between two Axle	To be mentioned	
	g. No of axle which will be steered of semi-trailer	To be mentioned	
52.	Chassis Frame.		
	a. Country of Origin	Gp-A/B/C	
	b. Country of Manufacture		
	c. Country of Assembly		
	d. Type	To be mentioned (Parallel section high tensile steel)	
	e. Length, width, height and thickness of chassis frame	To be mentioned. Diagram/catalogue to be provided with offer.	
	f. Chassis frame Resistance to Bending Moment	The truck chassis must be capable to resist the bending movement of the Semi-Trailer 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).	
53.	Ground Clearance (From the lowest portion in unloaded condition)	300 mm (Minimum)	
54.	Suspension.		
	a. Suspension type (All Axles)	To be mentioned	
	b. Shock absorber type (All Axles)	To be mentioned	
55.	Blackout light and convoy light	To be provided as per NATO Standard	
56.	Marking light around in trailer	To be provided	
57.	Trailer electrical connection with connector	12 pin, 24 volt (NATO Standard)	
58.	Trailer air brake connection with connector	2 line connection (NATO Standard)	
59.	Spare wheel with lifting attachment	To be provided	
60.	Hydraulic system	To be compatible with prime mover (High quality hydraulic system to be provided).	
61.	All normal lights including reverse light	To be provided	
62.	Trailer Hydraulic Connector	To be provided	
63.	Lashing Chain	Minimum 06 sets with shackles/ring around the semi-	

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Ser	Nomenclature/Description	Specification Specified	To be filled up by the Manufacturer
		trailer to fasten tanks securely	
64.	Track Shoe Adjustable Guide with Socket Spanner	To be provided	
65.	4x Scotch block (with locking facilities)	To be provided	
66.	Hand winch for spare tyre	To be provided	
67.	All light guards	To be provided	
68.	Unloading facilities for damaged tank	Arrangement should be provided	
69.	Useable Length of Trailer bed	Minimum 12 m	
70.	Usable width of Trailer bed	3.6 m	
71.	Overall width of Trailer bed	To be mentioned	
72.	Overall Length (Prime mover and semi-trailer in assembled condition)	To be mentioned	
73.	Loading Platform Height from Ground	To be mentioned	
74.	Turning Radius (Kerb to Kerb) (prime mover and semi-trailer in assembled condition).	Maximum 16 m	
75.	Outriggers (landing leg) in both sides	Hydraulic/mechanical jack type	
76.	Bed of trailer	Chequered steel or nonskid steel plate. Thickness to be mentioned	
Miscellaneous			
77.	Fire extinguisher	3 Kg Fire Extinguisher ABC&E type with chemical & brackets to be provided (Origin to be mentioned)	
78.	Operation temperature	-5 ^o to 55 ^o C	
79.	Electrical, hydraulic and brake system compatibility between prime mover and semi-trailer	Prime Mover and Semi-Trailer should be compatible with electrical, brake & hydraulic systems as per internationally accepted standard.	
80.	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 mentioned	
81.	List of spares	To be mentioned	
82.	Standard Tools List	Standard tools list to be provided	
83.	All Accessories and attachment	To be provided	
84.	Color	As per the requirement of indenter	
85.	Special Service Tools (SST)	To be provided	
86.	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 (BD).	To be provided	
	d. Grade of engine oil used in vehicle.	To be provided	
	e. Grade of engine oil to be used in Bangladesh (BD).	To be provided	
	f. Grade of gear oil used in vehicle.	To be provided	
	g. Grade of gear oil to be used in Bangladesh (BD).	To be provided	
87.	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)	
88.	Publications		
	a. Driver's/Owner's Manual in English for vehicle (complete Book Type)	To be provided as per the requirement of EME Dte	
	b. Updated Workshop/Repair Manual (for vehicle) in English (complete Book Type)	To be provided as per the requirement of EME Dte	
	c. Spare Parts Catalogue in English Book type.	To be provided as per the requirement of EME Dte	
	d. Spare Parts Price Catalogue in English Book type.	To be provided as per the requirement of EME Dte	
	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 Dte	
89.	Inspections		
	a. Stage inspection:	Name of places/location (factory/plants etc) for stage	

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Ser	Nomenclature/Description	Specification Specified	To be filled up by the Manufacturer
	b. Pre-shipment inspection (PSI):	inspection of major components to be mentioned PSI of the complete vehicle (prime mover connected with trailer as a single unit) to be arranged at a single location preferably at the country of origin/manufacture of the prime mover	
90.	Any other (if any)	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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