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30 Chaitra 1429

13 April 2023

06.06.0000.214.Re-eval.22/Tk Transporter

BOARD OF OFFICER - EVALUATION OF TANK TRANSPORTER WITH TRAILER (50 TONS CAPACITY) FOR BANGLADESH ARMY

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 Tank Transporter with Trailer (50 Tons Capacity) 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 Tank Transporter with Trailer (50 Tons Capacity). 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 Tank Transporter with Trailer (50 Tons Capacity) - 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

**REVIEWED TECHNICAL SPECIFICATION – TNAK TRANSPORTER WITH TRAILER
 (50 TONS CAPACITY)**

Ser	Nomenclature/Description	Technical Specification Specified	To be Filled by the Manufacturer
1.	Nomenclature	Tank Transporter with Trailer (50 Ton Capacity)	
2.	Name and Address of Local Agent	To be mentioned	
3.	Name and Address of Principal	To be mentioned	
4.	Name and Address of Manufacturer	To be mentioned	
Prime Mover			
5.	Make and Model	To be mentioned	
6.	Country of Origin	GP- A/ B/ C	
7.	Country of Manufacturer		
8.	Country of Assembly		
9.	Year of Manufacture	Not before the year of contract	
10.	Configuration	6x6 Full time or selectable (Minimum)	
11.	Drive	RHD	
12.	Dimension of Prime Mover.		
	a. Length	To be mentioned	
	b. Width	Maximum 3 M	
	c. Height	To be mentioned	
	d. Wheel Base	To be mentioned	
	e. Tread Front	To be mentioned	
	f. Tread Rear	To be mentioned	
13.	Engine.		
	a. Make and Model	To be mentioned	
	b. Country of origin, manufacturer and assembly	GP- A/ B/ C	
	c. Year of manufacture	Not before the year of contract	
	d. Type	To be mentioned	
	e. No of cylinder	6 Cylinders (Minimum)	
	f. Cylinder Arrangement	To be mentioned	
	g. Fuel type	Diesel (Grade available at Bangladesh)	
	h. Cooling system	Liquid cooled	
	j. Bore and stroke	To be mentioned	
	k. Displacement	12.5 Liters (Minimum)	
	l. Compression ration	To be mentioned	
	m. Horse power (HP) with RPM	400 HP (Minimum)	
	n. Torque with RPM	To be mentioned	
	p. Air cleaner type	To be mentioned	
	q. Fuel injection pump	To be mentioned	
	r. 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 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).	
14.	Power to weight ratio (only Prime Mover)	To be mentioned	
15.	Fuel consumption (km/liter)	To be mentioned	
16.	Fuel Tank Capacity	To be mentioned	
17.	Cruising Range	Minimum 400 Km with 55 ton payload on level first class road and provision for 2x extra Jerrycan outside the cargo space or fuel tank capacity 250 litres (Minimum)	

A-1
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Ser	Nomenclature/Description	Technical Specification Specified	To be Filled by the Manufacturer
18.	Gradeability with Prescribed GCW	Minimum 16 ^o (28.67%)	
19.	Seating capacity with personal Wearing Equipment	To be mentioned	
20.	Ground Clearance (Prime Mover)	275 mm (Minimum)	
21.	Turning Radius (Prime Mover)	To be mentioned	
22.	Approach/Departure Angle.		
	a. Angle of Approach	To be mentioned	
	b. Angle of Departure	To be mentioned	
23.	Weight (KG).		
	a. Kerb Weight of Prime Mover	To be mentioned	
	b. Pay Load of Prime Mover	To be mentioned	
	c. Gross Vehicle Weight of Prime Mover (Kerb weight + Pay load)	To be mentioned	
	d. Maximum Load on Front Axle (with trailer and full load)	8.2 Ton (Maximum)	
	e. Load on Rear Axle-1 (with trailer and full load)	12 Ton (Maximum) (If distance between 1 st and 2 nd axle is 1.5m or below) 12.4 Ton (Maximum) (If axle to axle distance greater than 1.5m)	
	f. Load on Rear Axle-2 (with trailer and full load)	12 Ton (Maximum)	
	g. Load on Rear Axle-3 (with trailer and full load); if any	12 Ton (Maximum)	
	h. Gross combination weight with semi-trailer (Kerb weight of Prime mover + Kerb weight of semi-trailer + Maximum payload on trailer)	To be mentioned (To be mentioned separately like GCW = Kerb weight of Prime mover + weight of semi-trailer + Max payload)	
	j. Weight on 5 th wheel	To be mentioned	
24.	Transmission.		
	a. Make and Model	To be mentioned	
	b. Country of origin, manufacturer and assembly	GP- A/ B/ C	
	c. Type of Gear	To be mentioned	
	d. No of Gear	To be mentioned	
	e. All Gear ratio	To be mentioned	
25.	Clutch.		
	a. Clutch Type	To be mentioned	
	b. Clutch Diameter	To be mentioned	
26.	Transfer Case.		
	a. Make and Model	To be mentioned	
	b. Country of Origin, Manufacturer and Assembly (all axle)	GP- A/ B/ C	
	c. High Gear Ratio	To be mentioned	
	d. Low Gear Ratio	To be mentioned	
27.	Differential Lock/Limited Slip Differential	Must be provided (Number of axle with differential lock to be mentioned)	
28.	Axles.		
	a. Front Axle Make, Model and Type	To be mentioned	
	b. Middle Axle, Make, Model and Type	To be mentioned	
	c. Rear Axle Make, Model and Type	To be mentioned	
	d. Country of Origin, Manufacturer and Assembly (All axles)	GP- A/ B/ C	
	e. Distance (Axle to Axle).		
	(1) 1 st Axle to 2 nd Axle	To be mentioned	
	(2) 2 nd Axle to 3 rd Axle	To be mentioned	
	(3) 3 rd to 4 th Axle (if available)	To be mentioned	

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Ser	Nomenclature/Description	Technical Specification Specified	To be Filled by the Manufacturer
	f. Load distribution on each axle with trailer and full payload:	To be mentioned	
	(1) 1 st Axle	8.2 Ton (Maximum)	
	(2) 2 nd Axle.		
	(a) If the distance between 1 st and 2 nd Axle is 1.5 m or less	12 Ton (Maximum)	
	(b) If the distance between 1 st and 2 nd Axle is more than 1.5 m	16 Ton (Maximum)	
	(3) 3 rd Axle	12 Ton (Maximum)	
29.	Steering system	Power steering	
30.	Tyre.		
	a. Tyre size	Size to be mentioned (Steel Belted radial)	
	b. Tyre brand	Bridgestone/ Dunlop/ Good year/ Yokohama/ Univocal/ Continental/ Michelin/ Toyo/ Folda/ Firestone/ Armstrong/ AMTEL/ Pirelli/ Hankook/ Kumho	
	c. Tyre Tread pattern	ND, GG, CC	
	d. Rim type/size	To be mentioned	
	e. Country of origin	GP- A/ B/ C	
31.	Spare wheel with lifting attachment	Minimum 01x spare wheel with lifting attachment	
32.	Brake System.		
	a. Service Brake	To be mentioned	
	b. Parking Brake	To be mentioned	
	c. Emergency Brake	To be mentioned	
	d. Trailer Brake	To be mentioned	
	e. Auxiliary/Exhaust Brake	To be mentioned	
33.	Suspension System.		
	a. Front	To be mentioned	
	b. Middle	To be mentioned	
	c. Rear	To be mentioned	
34.	Power Take Off (PTO)	Model and Capacity to be mentioned	
35.	Electrical System.		
	a. Volt	24 Volt	
	b. Battery	2x12 Volt, AH to be mentioned	
	c. Alternator	24 volt, Amp to be mentioned	
	d. Starter	24 Volt, Kw to be mentioned	
36.	Chassis Frame.		
	a. Country of Origin	GP- A/ B/ C	
	b. Country of Manufacture		
	c. Country of Assembly		
	d. Type	To be mentioned	
	e. Longitudinal member (HxWxT)	To be mentioned	
	f. Thickness of Reinforcement	To be mentioned	
	g. Dimension (LxWxH)	To be mentioned	
	h. Chassis frame resistance to bending moment	The Chassis must be capable to resist the bending movement of the prime mover with full 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)	
37.	Winch.		
	a. No of winch (at rear 2x30 ton)	Power of winch 2x30 ton (Should be able to retrieve a disabled tank of 60 ton)	
	b. Each winch capacity (without pulley/block)	30 ton (Minimum)	
	c. Make and Model	To be mentioned	
	d. Winch type	To be mentioned (It should be hydraulic/ Hydro-Mechanical)	

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Ser	Nomenclature/Description	Technical Specification Specified	To be Filled by the Manufacturer
	e. Rope Diameter	To be mentioned	
	f. Rope Length	To be mentioned	
	g. Country of origin	To be mentioned	
38.	Fording Capability: (Should be capable of negotiating small ditches nullahs in shallow & deep fording mode. The engine, electrical system to be water tight). The following to be ensured for 600 mm fording:	> 600 mm	
	a. Exhaust pipe	To be raised/extended upwards behind drivers cabin with rain water entry protection.	
	b. Axle Air Breather & Gearbox Air Breather (if fitted)	To be raised to > 600 mm	
	c. Water tight compressor Air Brake valve	To be mentioned	
	d. Wiring Distributor Box	To be raised to > 600 mm	
	e. Alternator, Self Starter & Battery Main Switch	To be specially water sealed	
	f. Transfer Case and Clutch Housing	To be specially water sealed	
	g. Wiring Harness Parts Winch will be in Contact with water	To be wrapped by special adhesive and covered by flexible pipe	
	h. Air intake	To be raised > 600 mm	
	j. Exhaust system	To be designed to blow out entering water.	
39.	Blackout lights. Following blackout lights NATO Standard to be provided:		
	a. 02x Blackout combination light (side & indicator at front LH & RH)	To be provided	
	b. 02x Blackout combination light (Stop, side & indicator) at rear LH & RH	To be provided	
	c. 01x Blackout convoy light at rear	To be provided	
	d. 01x Blackout driving light at front RH.	To be provided	
	e. 12 pin electrical socket for connection to be provided	To be provided	
40.	Normal light including Reverse lights	To be mentioned	
41.	Light Guards	Metal guard on all lights	
42.	Searching/working light	To be provided	
43.	Beacon light	Minimum 02	
44.	Fog light	Minimum 02	
45.	5th wheel.		
	a. Make and Model	To be mentioned	
	b. Country of Origin	GP- A/ B/ C	
	c. Capacity	More than 25% of the Gross Vehicle Weight of trailer	
46.	King pin size (Diameter)	3.5"	
47.	Fire extinguisher	3 Kg Fire Extinguisher ABC&E type with chemical & brackets to be provided (Origin to be mentioned)	
48.	Cabin type	Sleeper Cab with AC (Country of origin, manufacturer & assembly for AC to be mentioned)	
49.	Hooks.		
	a. Towing Hook of prime mover	02 at front	
	b. Pintle Hook (Rotary type)	01 at rear	
50.	POL (Petroleum Oil & Lubricant).		
	a. Type of Diesel used in equipment	To be compatible with the available diesel grade of Bangladesh	
	b. Type of Engine Oil used in equipment	To be compatible with the available diesel grade of Bangladesh	
	c. Type of gear Oil used in equipment	To be compatible with the available diesel grade of Bangladesh	
	Semi-Trailer		
51.	Nomenclature	50 Ton Semi-Trailer	

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Ser	Nomenclature/Description	Technical Specification Specified	To be Filled by the Manufacturer
52.	Make and Model	To be mentioned	
53.	a. Country of Origin	GP- A/ B/ C	
	b. Country of Manufacturer		
	c. Country of Assembly		
54.	Pay Load	55 Ton (Minimum)	
55.	Dead weight (Weight of Semi-Trailer)	To be mentioned	
56.	Overall length of Semi-Trailer	To be mentioned	
57.	Overall width of Semi-Trailer	3.6 m	
58.	Useable length of Platform	Minimum 9.5 m	
59.	Useable width of Platform	3.6 m	
60.	Loading Platform Height from Ground	To be mentioned	
61.	Goose Neck Dimension.		
	a. Length	To be mentioned	
	b. Width	To be mentioned	
	c. Height (Ground to lower portion)	To be mentioned	
	d. Distance from king pin centre to front end of Semi-Trailer	To be mentioned	
62.	Ramp.		
	a. Type	Hydraulic & Mechanically operated foldable nonskid sheet	
	b. Slope of ramp	15° (approx)	
	c. Height of ramp during travelling	Maximum 3.5 m	
	d. Tread (Distance between center of both arm of the ramp) Note: Distance between center of two tracks of tank to be lifted: Minimum 2.66 m, Maximum 2.79 m	To be mentioned	
63.	Turning Radius of complete vehicle (prime Mover+ Semi-Trailer-Wall to wall)	Maximum 14 m	
64.	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	
65.	Tyre.		
	a. Tyre size	To be mentioned	
	b. Tyre brand	Bridgestone/ Dunlop/ Good year/ Yokohama/ Uniroyal/ Continental/ Michelin/ Toyo/ Folda/ Firestone/ Armstrong/ AMTEL/ Pirelli/ Hankook/ Kumho	
	c. Tyre Tread pattern	Rib pattern	
	d. Tyre arrangement	To be mentioned	
	e. Rim Type/Size	To be mentioned	
	f. Country of origin	GP- A/ B/ C	
	g. No of tyre including spare tyre	To be mentioned	
	66.	Load Distribution (Prime Mover & Semi-trailer in Assembled Condition):	To be mentioned
a. On King Pin.			
(1) Without Pay Load		To be mentioned	
(2) With Pay Load		To be mentioned	
b. On Each Axle.			

27/4/23

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Ser	Nomenclature/Description	Technical Specification Specified	To be Filled by the Manufacturer
	(1) Without Pay Load	To be mentioned	
	(2) With Pay Load	12 Ton Maximum	
67.	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 Chassis must be capable to resist the bending movement of the Semi-Trailer with full 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)	
68.	Ground Clearance	275 mm (Minimum)	
69.	Suspension.		
	a. Suspension type (All Axles)	To be mentioned	
	b. Shock absorber type (All Axles)	To be mentioned	
70.	Outriggers type	Hydraulic Jack type	
71.	Blackout light and convoy light	To be provided as per NATO Standard	
72.	Marking light around in trailer	To be provided	
73.	Trailer electrical connection with connector	12 pin, 24 volt (NATO Standard)	
74.	Trailer air brake connection with connector	2 line connection (NATO Standard)	
75.	Spare wheel with lifting attachment	To be provided	
76.	Hydraulic system	To be compatible with prime mover (High quality hydraulic system to be provided).	
77.	All normal lights including reverse light	To be provided	
78.	Trailer Hydraulic Connector	To be provided	
79.	Lashing Chain	Minimum 06 sets with shackles/ring around the semi-trailer to fasten tanks securely	
80.	Track Shoe Adjustable Guide with Socket Spanner	To be provided	
81.	4x Scotch block (with locking facilities)	To be provided	
82.	Hand winch for spare tyre	To be provided	
83.	All light guards	To be provided	
84.	Unloading facilities for damaged tank	Arrangement should be provided	
85.	Bed of trailer	Should be made of chequered steel/ non-skid sheet	
86.	Plate thickness of trailer platform	12 mm	
	Miscellaneous		
87.	Overall ground clearance of tank transporter in loaded condition (Prime Mover connected with semi-trailer with full pay load on semi-trailer)	275 mm (Minimum)	
88.	Overall length of tank transporter (Prime mover and connected with trailer)	To be mentioned	
89.	Standard Tools with box for Prime Mover and Trailer	One standard tool box with standard tools and accessories for each prime mover and semi-trailer is to be provided (A list of manufacturer standard tools and accessories are to be mentioned in the quotation).	
90.	Electrical, hydraulic and brake system compatibility between Prime mover and Semi-trailer	Prime Mover and Semi-Trailer should be compatible with electrical, brake and hydraulic system as per internationally accepted standard	
91.	Operational temperature	-5° to 55° C	
92.	Hydraulic Pipe/Line	Additional two sets spares, to be provided	
93.	Heavy Duty Hydraulic Jack	To be provided (Origin and capacity to be mentioned)	

22/4/23

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Ser	Nomenclature/Description	Technical Specification Specified	To be Filled by the Manufacturer
94.	Accessories for Prime Mover and Trailer	List to be provided	
95.	Colour	As per requirement of indenter	
96.	Model Validity	10 years (Manufacture and Design certificate to be provided)	
97.	Warranty of Maintenance	15 years (Manufacture and Design certificate to be provided)	
98.	A list of 5% (fast moving & slow moving) spares	The list should be covered with maintenance, repair Kit and fit man item only.	
99.	Whether the local firm can render repair and maintenance support	To be mentioned in detail	
100.	List of Special Service Tools (SST) and Special Service Manual (SSM) to be submitted	Suggested list of SST & SSM to be submitted	
101.	Training local and abroad	To be provided as per the requirement of AHQ, Ordnance, EME and User Directorate.	
102	Publication. Following publications book type in English to be provided:		
	a. Owners-Manual	To be provided as per requirement of AHQ, EME Directorate.	
	b. Workshop/ repair manual including CD		
	c. Spare parts catalogue including CD		
	d. Updated Spare parts price list		
103.	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):	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	

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.

02/15/23