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13 April 2023

06.06.0000.214.Re-eval.22/Truck Refrigerator

BOARD OF OFFICER - EVALUATION OF TRUCK REFRIGERATOR (UNDER 20 FEET) 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 Refrigerator (under 20 Feet) 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 Refrigerator (under 20 Feet). 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 Refrigerator (under 20 Feet) - 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 REFRIGERATOR (UNDER 20 FEET)

Ser	Description of Technical Specifications	Required Technical Specifications	To be filled up by the Manufacturer
1.	Nomenclature	Truck Refrigerator (under 20 feet)	
2.	Name of the Firm/Local Agent with Full Address	To be mentioned	
3.	Name of Principal's with Full Address	To be mentioned	
4.	Name of Manufacturer Name with Full address	To be mentioned	
5.	Make & Model	To be mentioned	
6.	a. Country of Origin	GP-A/ B / C	
	b. Country of Manufacturer		
	c. Country of Assembly		
7.	Year of production	Not before the year of contract	
8.	Configuration	4x4	
9.	Drive	RHD	
10.	Dimension		
	a. Overall Length (mm)	To be mentioned	
	b. Overall Width (mm)	To be mentioned	
	c. Overall Height (mm)	To be mentioned	
11.	Ground Clearance (mm)	300 mm (Minimum)	
12.	Wheel Base (mm)	To be mentioned	
13.	Angle of Approach (degree)	30° (Minimum)	
14.	Angle of Departure (degree)	25° (Minimum)	
15.	Grade Ability (degree)	To be mentioned	
16.	Fording Depth	600 mm (Minimum)	
17.	Turning Radius	10 m (Maximum)	
18.	Front over hang	To be mentioned	
19.	Rear over hang	To be mentioned	
20.	Cabin height	To be mentioned	
21.	Tread Front	To be mentioned	
22.	Tread Rear	To be mentioned	
23.	Weight		
	a. Gross Vehicle Weight (GVW)	To be mentioned	
	b. Kerb Weight (Vehicle)	To be mentioned	
	c. Pay Load	Min 10,000 kg	
24.	Engine		
	a. Type	Diesel Engine	
	b. Make & Model	To be mentioned	
	c. Country of Origin, Manufacturer & Assembly	GP-A/ B / C	
	d. Number of Cylinder	6 Cylinder	
	e. HP at Rated rpm	300 HP (Minimum) RPM to be mentioned	
	f. Torque with rpm	1000 N-m (Minimum) RPM to be mentioned	
	g. Bore and Stroke	To be mentioned	
	h. Piston displacement (cc)	10 L (Minimum)	
	i. Cooling system	Liquid cooled	
	m. Year of Manufacture	Not before the year of contract	
	n. Fuel injection pump type	Details To be mentioned	
	p. Air Cleaner type	To be mentioned	
	q. Compatibility	Engine to be compatible to run with diesel available in Bangladesh	
	r. Compression ratio	To be Mentioned	
	s. Engine life before 1 st overhaul	Minimum 1,00,000 km	

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Ser	Description of Technical Specifications	Required Technical Specifications	To be filled up by the Manufacturer
	t. Engine test bench certificate	During Inspection, "Engine Test Bench Report" (for each model) which was prepared by manufacturer during Manufacture 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 the manufacturer (duly signed and stamped).	
25.	Fuel System		
	a. Type of Fuel	Diesel	
	b. Fuel tank capacity	300 L (Minimum)	
	c. Fuel consumption (Litre/100 km)	20 litres /100 km (Minimum)	
	d. Cruising range	1500 Km (Minimum)	
26.	Power to Weight ratio	To be mentioned	
27.	Cabin		
	a. Cab Type	To be mentioned	
	b. Country of Origin, Manufacture and Assembly	GP-A/ B / C	
	c. Weapon storage for 2xCrew Operator	Weapon storage for 2x Crew Operator to be provided	
	d. Seating Capacity with personal Wearing Equipment	To be mentioned	
28.	Axle		
	a. Number of Axle	To be mentioned	
	b. Front Axle		
	(1) Make	To be mentioned	
	(2) Type	Details to be mentioned	
	(3) Country of Origin, Manufacturer & Assembly	GP-A/ B / C	
	c. Rear Axle		
	(1) Make	To be mentioned	
	(2) Type	Details to be mentioned	
	(3) Country of Origin, Manufacturer & Assembly	GP-A/ B / C	
	d. Capacity of Front and Rear axle	To be mentioned	
29.	Transmission		
	a. Make and Model	To be mentioned	
	b. Type of Transmission	To be mentioned	
	c. Number of Gear (Front and rear)	To be mentioned	
	d. Country of Origin, Manufacturer & Assembly	GP-A/ B / C	
	e. Differential Lock/Limited Slip Differential (LSD)/ Equivalent Technology	To be provided	
30.	Transfer Case		
	a. Make and Model	To be mentioned	
	d. Country of Origin, Manufacturer & Assembly	GP-A/ B / C	
	c. Transfer Case gear ratio	To be mentioned	
31.	Clutch.		
	a. Clutch Type	To be mentioned	
	b. Clutch Diameter	To be mentioned	

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Ser	Description of Technical Specifications	Required Technical Specifications	To be filled up by the Manufacturer
32.	Suspension		
	a. Front	Details to be mentioned	
	b. Rear	Details to be mentioned	
33.	Brake System.		
	a. Service Brake	To be mentioned	
	b. Parking Brake	Details to be mentioned	
	c. Emergency Brake	To be mentioned	
	d. Exhaust brake.	To be mentioned	
34.	Steering	Hydraulic Power assisted steering	
35.	Tyre		
	a. Tyre Size	To be mentioned	
	b. Rim size	To be mentioned	
	c. Tyre type	Radial Type	
	d. pattern Design	ND, GG, CC (Non Directional, Ground Grip, Cross Country)	
	e. Tyre Brand	Michelin/ Bridgestone/ Dunlop/Goodyear/ Yokohama/ Toyo/Uniroyal/ Continental/ Folda/Firestone/ Armstonng/ AMTEL/ Pirelli/Hankook/ Kumho	
	f. Country of Origin	GP-A/ B / C	
	g. Number of Tyres including Spare Tyre	To be mentioned	
36.	Chassis Frame		
	a. Make	To be mentioned	
	b. Type	To be mentioned	
	c. Country of Origin, Manufacturer & Assembly	GP-A/ B / C	
	d. Length, width, height and thickness of chassis frame	To be mentioned. Diagram/catalogue to be provided with offer.	
	e. Chassis frame Resistance to Bending Moment	The truck chassis should be capable to carrying offered pay load 10 ton. The chassis will not be the cracked/ fractured and no other defects will arise upto 10 years. (Manufacturer certificate to be provided in this regards)	
37.	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 (Volt & KW)	To be mentioned	
38.	WAGON BODYWORK Food Grade insulation panel complying with United State Department of Agriculture (USDA) and safety aspects of food and Agriculture organization. Exterior with Filon FRP (Functional Reactive Programme). Interior with Glasbord-P (FRP). Glasbord-P is a food grade material comply with the United State Department of Agriculture (USDA) 75 mm thick of Extruded PS (Polystyrene) insulation with density of 40 Kg/M ³ is inserted in between both materials. One rear butterfly door is provided. One drainage valve is at the right front of the insulation container.		
	a. Freezer exterior dimension	To be mentioned (1) Length : (2) Width : (3) Height :	
	b. Freezer Internal dimension	(1) Length : 5000 mm (Minimum) (2) Width : 2500 mm (Minimum) (3) Height : 2300 mm (Minimum)	
39.	Load capacity	10,000 kg	
40.	Thickness		

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Ser	Description of Technical Specifications	Required Technical Specifications	To be filled up by the Manufacturer
	a. Roof and floor	To be mentioned	
	b. Other portion	To be mentioned	
41.	Total heat conductivity	To be mentioned	
42.	Air leakage route	To be mentioned	
43.	Refrigerating Unit.		
	a. Compressors	(1) Compressors capacity to be mentioned (Minimum 28.75 m ³) (2) To be run by Separate Diesel Engine/ Engine of the vehicle and 380-440 Volt 3 Phase 50 Hz Electrical power independently.	
	b. Temperature (Controllable)	Up to -20°C (minus twenty degrees centigrade), should be controllable from driver's cabin.	
	c. Evaporator and condenser	Compatible with compressor mentioned.	
	d. Display unit cum control panel for temperature	LCD/LED and Digit/Alphabet Colour Green preferred.	
	e. Country of origin for compressors, condenser, Evaporator, Sensors, Display units, AC Conductors, Microcontroller/ PLC etc.	GP-A/ B / C	
44.	Accessories to be provided with each vehicle		
	a. 01 Set x Spare wheel complete with lifting and lowering facility.	To be provided	
	b. 01x Pintle hook rotating type at rear.	To be provided	
	c. 02x Towing hook / pin at front	To be provided	
	d. 02x Tie down shackle at front left	To be provided	
	e. 01x Jerrican with fitting bracket	To be provided	
	f. 02x Out side rear view mirror	To be provided	
	g. 03x Sunvisor inside cabin	To be provided	
	h. 03x Seat belt for front passenger.	To be provided	
	j. 02x Wind shield wipers	To be provided	
	k. 02x Reflector at rear	To be provided	
	l. 01x Map Reading light inside cabin.	To be provided	
	m. 02x Fog Lamp at front.	To be provided	
	n 01x Tyre Inflator hose 10 meter with nozzle & adaptor.	To be provided	
	p. 02x Rubber bumper at rear	To be provided	
	q. 01x Number plate light at rear Right Hand.	To be provided	
	r. 01x Fire Extinguisher 1 Kg ABC&E dry powder type with fitting bracket near driver seat.	To be provided	
	s. 01 Set x Floor mat inside cabin.	To be provided	

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Ser	Description of Technical Specifications	Required Technical Specifications	To be filled up by the Manufacturer
	t. 01x Electrical cable for stand by power supply with both side plug 20 meters.	To be provided	
	u. 01x Wooden block.	To be provided	
45.	Blackout lights (NATO STANDARD)		
	a. 02x Side light at front.	To be provided	
	b. 02x Rear combination light	To be provided	
	c. 01x Driving light at front Right Hand.	To be provided	
	d. 01x Stop light at rear.	To be provided	
46.	Tools set : Following to be provided with each vehicle :		
	a. 01x Hydraulic jack assy capacity 10 ton with handle.	To be provided	
	b. 01x wheel wrench with handle.	To be provided	
	c. 01x Adjustable wrench 200mm.	To be provided	
	d. 01x Pliers 150 mm.	To be provided	
	e. 01x Screw driver (+-) with handle.	To be provided	
	f. 01 Set x Double ended spanner, Size : 8x9 mm, 10x11 mm, 12 x14 mm, 13x17 mm & 19x22 mm.	To be provided	
	g. 02x Stopper wheel.	To be provided	
	h. 01x Grease gun with replaceable tip.	To be provided	
	j. 01x Tyre pressure gauge 160 PSI.	To be provided	
	k. 01x Hammer with handle.	To be provided	
	l. 01x Allen key.	To be provided	
	m. 02x Socket, size : 17 mm, 10x11 mm.	To be provided	
	n. 01x Tool bag for above tools.	To be provided	
47.	Publications		
	a. Operators manual in English complete set book type.	To be provided as per the requirement of EME Dte	
	b. Workshop manual in English complete set book type.	To be provided as per the requirement of EME Dte	
	c. Spare parts Catalogue in English complete set book type.	To be provided as per the requirement of EME Dte	
	d. Updated spare parts price list (Book type).	To be provided as per the requirement of EME Dte	
48.	Color	As per requirements indenter	
49.	Other technical facilities for Freezer Truck :		
	a. Outer surface of Freezer Truck should be made of rust proof metal and painted by white colour with thick film which should have water resistant capacity.	To be provided	
	b. Floor of Freezer Truck should be made of heavy thick stainless steel sheet with 3 cm thick	To be provided	

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Ser	Description of Technical Specifications	Required Technical Specifications	To be filled up by the Manufacturer
	plastic rubber.		
	c. The Freezer Truck should have stand by 3 phase A/C (Alternating Current) 50Hz line for use in outside power supply.	To be provided	
	d. Other condition : (1) Spares will be available for at least 05 years (Certificate by manufacturer)	To be provided	
	e. A Robust frame structure made of alloy metal has to be provided surround the container of Freezer Truck.	To be provided	
	f. The doors should have heavy duty locking facility with extra pad lock system.	To be provided	
	g. The Freezer Truck should have adequate lighting facility inside the container.	To be provided	
	h. The Freezer Truck should have capability to maintain 20 degree Celsius temperature which to be suitable to operate in Bangladeshi weather condition.	To be provided	
50.	Training and Training Aids.	To be provided as per Requirement.	
51.	Manufacturer recommended spare parts price list for 05 years of all fast & slow moving spare parts showing unit price to be submitted with the offer.	To be provided	
52.	Spare wheel with lifting attachment	To be provided	
53.	All light guards	To be provided	
54.	List of Special Service Tools (SST) and Special Service Manual (SSM) to be submitted	To be provided	
55.	List of spares	To be provided	
56.	Whether the local firm can render repair and maintenance support	To be provided	
57.	Model Validity	To be provided	
58.	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	
59.	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.

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