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29 Kartik 1431

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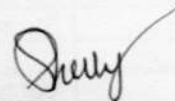
EVALUATION OF JEEP 5 DOOR BULLET PROOF/ ARMOURED

Reference:

A. Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate letter number 23.01.901.048.06.079.03.31.10.24 Dated 31 October 2024 (Not to all).

1. Please be informed that Bangladesh Army is planning for evaluation of **Jeep 5 Door Bullet Proof/ Armoured**. In this regard, you are requested to forward technical offer **along with original Brochure/Catalogue, Model Technical Specification 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 **28 November 2024** with an 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 Jeep 5 Door Bullet Proof/ Armoured - 08 (Eight) Pages only.

Distribution:

External:

Action:

(All Concerned Supplier/Firm)

Information:

Army Headquarters, General Staff Branch, Overseas Operations 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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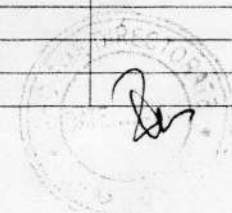
GENERAL SPECIFICATION: JEEP 5 DOOR BULLET PROOF/ARMoured

Serial	Description of General Specifications	Required Specifications	Remarks
PART-1. GENERAL SPECIFICATION.			
1.	Name of the Local Agent with full Address (Including Phone, Mobile & Fax number, Email & Web Address)	To be mentioned	
2.	Name of the Manufacturer with full Address (Including Phone & Fax number, Email & Web Address)	Base Vehicle and Armouring Manufacturer to be mentioned separately	
3.	Name of the Principal with full Address (Including Phone & Fax number, Email & Web Address)	To be mentioned	
4.	Nomenclature	Jeep 5 Door Bullet Proof/Armoured	
Vehicle Requirements.			
5.	Make & Model	Base Vehicle and Armouring Manufacturer to be mentioned separately	
6.	a. Country of Origin	Group-A	
	b. Country of Manufacturer	Group-A	
	c. Country of Assembly	Group-A	
7.	Drive	Right Hand Drive (RHD)	
8.	Configuration	4x4	
9.	Roof	Hard Top Bullet Proof	
10.	Dimensions.		
	a. Overall Length	4800 mm (Minimum)	
	b. Overall Width	To be mentioned	
	c. Overall Height	To be mentioned	
	d. Roof Height from seat	To be mentioned	
11.	Wheel Base	To be mentioned	
12.	Ground Clearance	225 mm (Minimum)	
13.	Wheel Track (Tread).		
	a. Front	To be mentioned	
	b. Rear	To be mentioned	
14.	Gradient	65% (Minimum)	
15.	Angle of Approach	28° (Minimum)	
16.	Angle of Departure	20° (Minimum)	
17.	Fording Depth	To be mentioned	
18.	Weights.		
	a. Base Vehicle.		
	(1) Payload	To be mentioned	
	(2) Gross Vehicle weight (GVW)	To be mentioned	
	(3) Kerb Weight (kg/ton)	To be mentioned	
	b. After Armouring.		
	(1) Payload (After Armouring)	550 kg (Minimum)	
	(2) Gross Vehicle weight (GVW)	To be mentioned	
	(3) Kerb Weight (kg/ton)	To be mentioned	
19.	Power/weight ratio	To be mentioned	
20.	Seating Capacity and Seating Arrangement	Minimum 5 person including driver. Height of the seat should be comfortable	
21.	Minimum Turning Radius	7 Meter (Maximum)	
PART-2. TECHNICAL SPECIFICATION.			
22.	Engine.		



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Serial	Description of General Specifications	Required Specifications	Remarks
	a. Type	V-shapes and details to be mentioned	
	b. Make and Model	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	f. No of Cylinder	8 cylinder (Minimum)	
	g. Bore & Stroke	To be mentioned	
	h. Piston Displacement	To be mentioned	
	j. Compression Ratio	To be mentioned	
	k. HP and rated RPM	To be mentioned	
	l. Torque	To be mentioned	
	m. 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.	
	n. Fuel Supply System.		
	(1) Type of Fuel	Diesel	
	(2) Details of Fuel Supply system (Manual/ EFI)	To be mentioned	
	(3) Type of Fuel Injection Pump	To be mentioned	
	(4) Fuel Tank Capacity. In built tank capacity for minimum cruising range of 400 Km on level 1st class road	To be mentioned	
	(5) Fuel Consumption (for 100 km)	To be mentioned	
	p. Emission standard	Euro 3/ Euro 4	
	q. Maximum Speed.		
	(1) High way	100 Km/Hour (Minimum)	
	(2) Cross Country	To be mentioned	
	r. Cruising Range	400 km (Minimum)	
	s. Air Cleaner type	To be mentioned	
	t. Fuel Filter type	To be mentioned	
	u. Cooling system	Liquid cooled	
	v. Life expectancy	Life expectancy of new engine up to 1st overhauling not less than One lac kilometer (Certificate must be submitted by manufacturer)	
23.	Transmission.		
	a. Type (Manual/ Auto)	To be mentioned	
	b. Make and Model	To be mentioned	
	c. Country of Origin	Group-A	



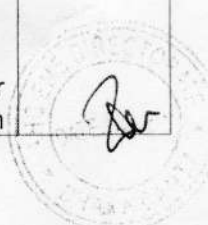
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Serial	Description of General Specifications	Required Specifications	Remarks
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	f. All Gear Ratio	To be mentioned	
	g. Type of gear shifting lever	To be mentioned	
24.	Transfer Case.		
	a. Type	To be mentioned	
	b. Make and Model	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	f. High Gear Ratio	To be mentioned	
	g. Low Gear Ratio	To be mentioned	
25.	Clutch Details	Details specifications to be mentioned	
26.	Suspension Details. (All components must be high quality and heavy duty, so that the Suspension system can be ensure correct weight distribution and maintaining OEM Ground Clearance of the Vehicle after armouring)		
	a. Front	To be mentioned	
	b. Rear	To be mentioned	
27.	Brake System. (All components must be high quality and heavy duty, so that the Brake system can provide better braking reaction after armouring)		
	a. Service Brake	Detail specifications to be mentioned	
	b. Parking Brake	Detail specifications to be mentioned	
	c. Emergency Brake (if available)	Detail specifications to be mentioned	
28.	Wheel & Tyre.		
	a. Tyre Size (front , rear & spare)	To be mentioned	
	b. Tyre Brand	Bridgestone /Dunlop/ Good year/ Yokohama/ Uniroyal/ Continental/ Michelin/ Toyo/ Folda/ Firestone/ Armstrong/ AMTEL/Hankok/Kumho	
	c. Country of Origin	USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore, Thailand and South Korea	
	d. Tyre Pattern	Radial ND, GG, CC	
	e. Rim Size	To be mentioned	
29.	Electric System.		
	a. Battery (24 Volt & AH)	To be mentioned	
	b. No of Battery	To be mentioned	
	c. Alternator (Volt and Amp)	To be mentioned	
	d. Starter (KW)	To be mentioned	
30.	Noise Suppressor	All components producing noise and spark should be adequately cushioned/ shielded	
31.	Fire Supression system	To be provided	
32.	Chassis.		



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Serial	Description of General Specifications	Required Specifications	Remarks
	a. Type	To be mentioned	
	b. Country of Origin	Group-A	
	c. Country of Manufacturer	Group-A	
	d. Country of Assembly	Group-A	
33.	Front Axle.		
	a. Type	Detail specification to be mentioned	
	b. Capacity	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
34.	Rear Axle.		
	a. Type	Detail specification to be mentioned	
	b. Capacity	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
35.	Differential Lock	To be mentioned	
Bullet Proof Requirements (Following to be mentioned).			
36.	a. Country of Origin	Group-A	
	b. Country of Manufacturer	Group-A	
	c. Country of Conversion	Group-A	
37.	Bullet Proof Resistance.		
	a. Type of Tires and wheel	It should be Run-Flat type. The polymer of the tire must provide sufficient support to allow the jeep to travel 50 km (minimum) at 80 km/h in case of tire inflation or puncture.	
	b. Bullet proof Windows and Windshield Glasses	Level of protection B6 or equivalent. It should be polycarbonate to create a denser yet Transparent barrier/leaded glass on the top of the polycarbonate for maximum protection (Type of material to be mentioned).	
	c. <u>The Exterior and the Interior.</u>		
	(1) Interior	Method of protection and materials to be mentioned. All occupants must be protected from all sides	
	(2) Exterior	(a) Type and material of armour installation to be mentioned/described. (b) Thickness of all plates and material used to be mentioned with protection level. However, the protection level should be B6 or equivalent. Also, same protection level to be provided for following items: (i) Engine Cover. (ii) Right and Left Side Fender. (iii) Front and Rear bumper (Steel plates to be added with	



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Serial	Description of General Specifications	Required Specifications	Remarks
		Nylon and Kevlar).	
	(3) Door	It must be double plated with the protection level B6 or equivalent. Metal thickness to be mentioned. Door hinges mounting points to be reinforced to prevent door sagging and deformation of the door pillar.	
	(4) Fuel Tank	Same as Jeep body/ door material/B6 or equivalent protection level. Tank should be anti explosive.	
	(5) Engine and other	The engine should also have B6 level bullet proof protection	
	(6) Battery	Should have ballistic protection (to be mentioned/described).	
	(7) Protection Level	Vehicle has to be armoured to create a protective shell for the occupants from ballistic attack to sides and top of the vehicle and fragmentation to the underneath of the vehicle.	
	(8) Ballistic Protection	Level of protection is B6 or equivalent.	
	(9) Fragmentation Protection	Floor should have blast protection system which will provide protection equivalent to B6 level.	
	(10) Ballistic Overlaps & Splash Returns	Ballistic overlaps and splash returns have to be installed in all door and window apertures to ensure ballistic leakage to minimal.	
38.	Ballistic Protection Test and certifications	To be provided	
39.	Standard Armoring Package	To be provided	
40.	Miscellaneous	To be mentioned	
41.	Accessories to be provided with each vehicle:		
	a. 01 set x Spare wheel (Run Flat) complete set with fitting attachment under the floor.	To be Provided	
	b. <u>Lights</u> : 02 x head lights, 04 x Turn signal light (front & rear), 02 x stop/brake lights, 02 x reverse light, 01 x cabin light, all gauges and meters in dashboard, fuel gauges, hazard warning lights etc as required for proper functioning of all system of the vehicle.	To be Provided	
	c. 02 x fog lamp at front for driving during foggy weather.	To be Provided	
	d. 01 kg A, B, C and E type fire extinguisher with bracket and chemical	To be Provided	
	e. Seat belt for driver and other passengers	To be Provided	
	f. Inspection lamp complete with cable (10 meter), plug & arrangement of socket in the vehicle for using inspection lamp.	To be Provided	
	g. 01 set x complete floor mat front and	To be Provided	



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Serial	Description of General Specifications	Required Specifications	Remarks
	rear.		
	h. 02xSun Visors with fitting brackets.	To be Provided	
	j. 01 x inside rear view mirror.	To be Provided	
	k. 02 x outside power door rear view mirror with folding function.	To be Provided	
	l. Entertainment device (LED monitor, Andriod Player, etc)	To be Provided and details to be mentioned	
	m. Digital quartz clock at dash board	To be Provided	
	n. Both side front door. Full size normal door with normal winding windows power operated.	To be Provided	
	p. Rear windshield with defogger.	To be Provided	
	q. Type of seat and seat material	To be mentioned	
	s. Tachometer/ engine rpm meter and Speedo meter (MKS system) in dashboard.	To be Provided	
	r. Boost ventilator with fresh, cool and hot air circulation (auto FR, LH, RH independent control + manual RR cooler i.e. duel type air condition).	To be Provided	
	s. Door locks: Auto door lock operated from driver seat for all door.	To be Provided	
	t. Driver seat: Double side front and rear height adjustable with full tilting system of back rest for driver and second seater.	To be Provided	
	u. Cups holders on console box front and other rows for water/soft drink cups.	To be Provided	
	v. Intermittent windshield wiper 02 x front and 01 x rear.	To be Provided	
	w. Towing hook facility.	To be Provided	
	x. Front foot lamps and lighting for side steps (both side).	To be Provided	
	y. SRS (for driver and second seater)	To be Provided	
	z. Camera system	(a) The Rear-View Camera: The camera shall be in fixed position viewing the rear of the vehicle. Monitor shall be at the Dashboard. (b) The system shall have USB port	
	aa. Black out light	To be Provided	
	bb. Weapon holder	To be Provided	
	cc. Compass	To be Provided	
	dd. Sensor	To be mentioned	
	ee. Antenna fixing base for wireless	To be provided as per the fol catagory of radio set:	
	ff. Fixing socket for wireless set power supply		
	gg. Base frame for fixing wireless set (Free size)	i. HF Med Range 15-20W ii. VHF Med Range 25-50W	
	hh. Provision for Communication set		
	jj. Cargo tie down loops and Cargo fastening equipment	To be Provided	
	kk. Additional power outlet (Volt/Amp)	To be Provided	



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Serial	Description of General Specifications	Required Specifications	Remarks
42.	The following tools set to be provided with each vehicle:		
	a. 01xstd Jack assembly with handle.	To be Provide	
	b. 01xWheel Wrench with handle	To be Provided	
	c. 01 x Adjustable wrench.	To be Provided	
	d. 01 x Pliers	To be Provided	
	e. 01xScrew driver (+/-) with handle.	To be Provided	
	f. 02 x Double ended spanner	To be Provided	
	g. 1xGrease gun with replaceable tip	To be Provided	
	h. 1xTyre pressure gauge	To be Provided	
	j. 1xTool bag for above tools	To be Provided	
43.	Colour	As per Indentor's requirement.	
44.	Petrol Oil Lubricant (POL) Information.		
	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	
PART- 3. TRAINING REQUIREMENT.			
45.	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)	
PART-4. REPAIR AND MAINTENANCE REQUIREMENT LESS LIST OF SPARES.			
46.	Books & Publication.		
	a. Driver's/Owner's manual in English for Vehicle (Complete Book type)	To be provided as per requirement of EME Dte	
	b. Updated workshop/repair manual (for vehicle) in English (Complete Book type.	To be provided as per requirement of EME Dte	
	c. Spare Parts Catalogue in English Book type.	To be provided as per requirement of EME Dte	
	d. Spare Parts Price Catalogue in English Book type.	To be provided as per 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 requirement of EME Dte	
PART-5. LIST OF SPARES.			
47.	List of Fast & Slow Moving Spare Parts	List to be provided as per requirement of EME Dte	
PART-6. TOOL LIST FOR DIFFERENT LEVEL OF MAINTENANCE.			
48.	a. List of Standard Tools and Accessories	List to be provided with quantity	
	b. Analyzer, measuring & testing/fault finding and diagnostic set	To be provided as per requirement of EME Dte	
	c. Special Service Tools (SST)	List to be provided as per requirement of EME Dte	
	d. Special Service Materials (SSM)	List to be provided as per requirement of EME Dte	
PART-7. FINANCIAL SPECIFICATION.			

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Serial	Description of General Specifications	Required Specifications	Remarks
49.	Financial Implication / Specifications	To be provided as per requirement of Ordnance Directorate	
50.	Terms and Condition.		
	a. Time of Free Service	1 Year	
	b. Warranty/Guarantee	1 Year from the final acceptance of equipment	
	c. Technical Offer should be on the Original Pad of Principal/Manufacturer with Sign and Seal	To be submitted	
	d. Authorization Certificate to be Provided by OEM Manufacturer in Favour of Armouring Manufacturer	To be submitted	
	d. Authorization Certificate to be Provided by Armouring Manufacturer in Favour of Principal	To be submitted	
	e. Authorization Certificate to be Provided by principal in favour of local agent	To be submitted	
	c. Technical Offer should be on the Original Pad of Principal/Manufacturer with Sign and Seal	To be submitted	
	f. After Sale service, Repair and Maintenance.		
	i) After Sale service, Repair and Maintenance by local agent (Minimum 10 years)	Details to be mentioned (Workshop address, Authorization certificate)	
	ii) Details of maintenance schedule	To be mentioned	
	g. Model Validity (Minimum 10 years from the signing of contract)	Certificate to be provided	

