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০৬ April 2026

RE-EVALUATION OF ARMoured VEHICLE LAUNCHED BRIDGE (AVLB)

Reference:

A. Army Headquarters, Engineer in Chief's Branch, Engineer Directorate letter number 23.01.901.055.02.192.01.31.03.26 dated 31 March 2026 (Not to all).

1. It is to inform you that Bangladesh Army is planning to procure **Armoured Vehicle Launched Bridge (AVLB)**. Bangladesh Army needs to standardize more models for the equipment. Therefore, interested firms are requested to provide necessary offers, brochures, catalogues, technical/training/operational/maintenance manuals and other necessary documents etcetera (each in duplicate) for the standardization of the said equipment. The detailed information/documents have to be sent directly to **Army Headquarters, Engineer in Chief's Branch, Engineer Directorate, E-mail: engrdte@army.mil.bd by 20 April 2026 with an intimation (01 x Complete Technical Offer)** to this Directorate General please. Please note that, the offered models should be compatible with preliminary specification attached as Annex A to this letter. Short fall of any information will disqualify the offer. Also, kindly be requested to provide enlistment certificate of DGDP along with the technical offer.

2. Your co-operation will be highly appreciated.


MD ZAHIDUL KABIR
Major
For Director General

Enclosure:

1. Preliminary Specification of Armoured Vehicle Launched Bridge (AVLB)-09 (Nine) pages Only.

Distribution:

External:

Action:

(All Concerned Firm/Supplier)

Information:

Army Headquarters, General Staff Branch, Weapon, Equipment and Statistics Directorate

Army Headquarters, Engineer in Chief's Branch (Coordination)

Army Headquarters, Engineer in Chief's Branch, Engineer Directorate

Army Headquarters, Master General of Ordnance Branch, Ordnance Directorate

Internal:

Action:

IT Section - (For flashing on DGDP web site).

Notice Board

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ANX A TO
 ENGE DTE LTR NO
 23.01.901.055.02.192.01.31.03.26
 DT: 31 MARCH 2026

**PRELIMINARY TECHNICAL SPECIFICATIONS OF ARMoured VEHICLE LAUNCHED BRIDGE
 (AVLB)**

Ser	Description	Required Technical Specification	Remarks
Part-1: General Specification			
1.	Name of the equipment	Armd Veh Launched Br (AVLB)	
2.	Name and Complete Address of the Local Agent (Address, Telephone, Fax, E-mail and websites)	To be mentioned	
3.	Name and Complete Address of Manufacturer (Address, Telephone, Fax, E-mail and website)	To be mentioned	
4.	Name and Complete Address of principal (Address, Telephone, Fax, E-mail and website)	To be mentioned	
5.	Make, type and model	To be mentioned	
6.	Country of origin	To be mentioned	
7.	Country of manufacture		
8.	Country of assembly		
9.	Year of production	To be mentioned	
10.	Warranty period	Minimum 01 year	
Part-2: Technical Specification			
11.	General Data		
	a. Combat weight (Include Bridge)	To be mentioned	
	b. Crew	To be mentioned	
	c. Power to weight ratio	To be mentioned	
	d. Ground clearance	Minimum 350 mm	
	e. Ground pressure	To be mentioned	
	f. Combat operational temperature range (0°C)	-5 to 55° C	
	g. Dimensions		
	(1) Length of AVLB		
	(a) Length of hull (mm)	To be mentioned	
	(b) Length of AVLB with bridge (mm)	To be mentioned	
	(2) Height of AVLB		
	(a) Height of AVLB with lanching Bridge (mm)	To be mentioned	
	(b) Height of AVLB without lanching Bridge (mm)	To be mentioned	
	(3) Width of AVLB		
	(a) Width of AVLB with side skirt (mm)	To be mentioned	
	(b) Width of AVLB without side skirt (mm)	To be mentioned	
	h. Cross country speed (km/h)	> 15 km/hr	
	j. Maximum speed (km/h)	To be mentioned	
	k. Maximum cruising range (km)	To be mentioned	
	l. Fuel Capacity (Liters)		
	(1) Total fuel capacity	To be mentioned	
	(2) External/Drop out fuel tank capacity (if available)	To be mentioned	
	m. Fuel Consumption per 100 km Run (Liters)		
	(1) On high way	To be mentioned	
	(2) On cross country	To be mentioned	
	n. Engine oil consumption per 100 km Run (Liters)	To be mentioned	

Ser	Description	Required Technical Specification	Remarks
12.	Track		
	a. Tread (mm) Distance between center of two tracks)	To be mentioned	
	b. Length of track on ground	To be mentioned	
	c. Track to track distance	To be mentioned	
	d. Width of track	To be mentioned	
13.	Running Gears		
	a. Suspension	To be mentioned	
	b. Track propelling system	To be mentioned	
	c. Type and numbers of road wheel	To be mentioned	
	d. Type Track Block used	To be mentioned	
14.	Obstacle Negotiation		
	a. Maximum grade ascending ability (Degree)	Minimum 30°	
	b. Maximum side slop AVLB can drive (Degree)	To be mentioned	
	c. Width of trench AVLB will cross (mm)	Minimum 18 m	
	d. Vertical obstacle AVLB with climb (mm) (Escarpment)	To be mentioned	
	e. Vertical obstacle AVLB with descend (Counter Escarpment)	To be mentioned	
	f. Forging depth without preparation (mm)	To be mentioned	
15.	Power Pack (Engine)		
	a. Make and model	To be mentioned	
	b. Type	To be mentioned	
	c. Country of origin	To be mentioned	
	d. Country of manufacture		
	e. Country of assembly		
	f. Maximum rated power with RPM	To be mentioned	
	g. Maximum torque with RPM	To be mentioned	
	h. Number of Cylinder	To be mentioned	
	j. Compression ratio	To be mentioned	
	k. Bore & stroke	To be mentioned	
	l. Piston displacement	To be mentioned	
	m. Turbocharger/Supercharger (if applicable)	To be mentioned	
	n. Engine life (Minimum motor hours before 1 st overhaul)	≥ 500 motor hrs	
	p. Engine basic starting system	To be mentioned	
q. Number of means available to start the engine	To be mentioned		
r. Fuel used by engine	To be mentioned		
s. Engine test bench certificate	To be mentioned		
16.	Cooling System. (For main engine)		
	a. Type of cooling system (Liquid/water cooled)	To be mentioned	
17.	Hydraulic System		
	a. Details of Hydraulic System	To be mentioned	
	b. Type, Make and Model of Hydraulic Pump	To be mentioned	
	c. Country of origin and Manufacturer	To be mentioned	
	d. Total capacity of hydraulic oil in AVLB (Liters)	To be mentioned	
	e. Operating pressure in hydraulic system (Kg/Cm ²)	To be mentioned	
18.	Steering System (Preferably Hydraulic assisted mechanical steering control)	To be mentioned	

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Ser	Description	Required Technical Specification	Remarks
19.	<u>Electric System</u>		
	a. Total voltage	To be mentioned	
	b. No of batteries	To be mentioned	
	c. Volt and AH of battery	To be mentioned	
	d. Type, Number of Generator/Alternator used with volt and kw	To be mentioned	
20.	<u>Braking System</u>		
	a. Svc brake	To be mentioned	
	b. Parking brake	To be mentioned	
	c. Any other brake	To be mentioned	
21.	<u>Transmission System</u>		
	a. Main Gear Box		
	(1) <u>Type</u>	To be mentioned	
	(a) Make and Model	To be mentioned	
	(b) Country of Origin and Manufacturer	To be mentioned	
	(c) Country of Assembly	To be mentioned	
	(2) <u>Number of gears</u>		
	(a) Number of forward gear	To be mentioned	
	(b) Number of reverse gear	To be mentioned	
	(c) Gear ratio	To be mentioned	
	(d) Speed at various gears (Km/Hour)	To be mentioned	
	(e) Gear control mechanism	To be mentioned	
	b. Speedup/Connecting/Transmission	To be mentioned	
	c. <u>Master Clutch (if Applicable)</u>		
	(1) Master Clutch control mechanism	To be mentioned	
	d. PSM/Equivalent Steering mechanism (if Applicable) Control mechanism (Preferably Hydraulically assisted mechanical control)	To be mentioned	
	e. <u>Self Recovery mechanism used</u>		
(1) Type of self recovery mechanism used	To be provided		
(2) Control mechanism	To be mentioned		
(3) Max operational length and dia of self recovery cable	To be mentioned		
(4) Pull Force/Recovery capacity	To be mentioned		
f. Final drive	To be mentioned		
22.	<u>Pneumatic System</u>		
	a. Operating pressure in pneumatic system (kg/cm ²)	To be mentioned	
23.	<u>Detail of Bridge</u>		
	a. Make and model	To be mentioned	
	b. Country of origin/assembly/manufacture	To be mentioned	
	c. No of span	To be mentioned	
	d. <u>Length of Bridge</u>		
	(1) Extended	To be mentioned	
	(2) Folded (m)	To be mentioned	
	(3) Bridge span (m)	Minimum 18 m	
(4) Length of ramp	To be mentioned		
(5) Total length of the Bridge including ramp	To be mentioned		

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Ser	Description	Required Technical Specification	Remarks
	e. Width		
	(1) Overall (m)	To be compatible to carry MBT 2000 tank or available models of tank in Bangladesh Army	
	(2) Road way (m)	To be mentioned	
	(3) Tread way (m)	To be mentioned	
	f. Height folded	To be mentioned	
	g. Weight	To be mentioned	
	h. Capacity	Military load bearing capacity of min 50 ton	
	j. Time require for emplacement and retrieval of Bridge	To be mentioned	
24.	Details of Bridge launching mechanism	To be mentioned	
25.	Armour protection		
	a. Armour protection available on AVLB	To be mentioned	
	b. Side Skirt (if applicable)	To be mentioned	
26.	Protection System		
	a. Auto Fire Extinguishing and Suppression System		
	(1) Number of Fire Extinguishing with capacity and location	Details to be mentioned	
	(2) Mode of Fire Extinguishing operation (Automatic with manual operation)	To be mentioned	
	(3) No of sensors available on AVLB	To be mentioned	
	(4) Minimum time require to initiate fire suppression operation	To be mentioned	
	b. Others	To be mentioned	
27.	Air Conditioning System used		
	a. Type of air conditioning system used	To be mentioned	
	b. Brand and Model	To be mentioned	
	c. Operation Temperature range of air conditioning	To be mentioned	
	d. Capacity	To be mentioned	
28.	Driver's Night viewing Device (DNVD) (Min 3rd Gen Passive II Type)		
	a. Type	To be mentioned	
	b. Brand and Model	To be mentioned	
	c. Country of origin	To be mentioned	
	d. Country of manufacture and assembly	To be mentioned	
	e. Full name and address of manufacturer	To be mentioned	
	f. Year of production	Not before the year of contract	
	g. Generation and Type	To be mentioned	
	h. Maximum Viewing range		
	(1) Detection range with and without magnifier/extender (Standing soldier in combat uniform over natural background)	To be mentioned (with and without extender): (1) Moon light condition (2) Star light condition (3) Full dark light condition (4) IR condition (active system)	
	(2) Recognition Range with and without magnifier/extender (Standing soldier in combat uniform over natural background)	To be mentioned (with and without extender): (1) Moon light condition (2) Star light condition (3) Full dark light condition (4) IR condition (active system)	

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Ser	Description	Required Technical Specification	Remarks
	(3) Identification range with and without magnifier/extender (Standing soldier in combat uniform over natural background)	To be mentioned (with and without extender): (1) Moon light condition (2) Star light condition (3) Full dark light condition (4) IR condition (active system)	
	j. Field of View (narrow and wide angle)	To be mentioned (Degree)	
	k. Magnification (x times)	To be mentioned	
	l. Minimum time required before operation	To be mentioned	
	m. Emergency manual operation mode	To be mentioned	
	n. Weight	To be mentioned	
	p. Display Unit	To be mentioned	
	q. Dimension (LxWxH)	To be mentioned	
	r. Power Supply	Details to be mentioned (type of battery, volt, ampere, charging facilities etc)	
	s. Continuous operation hours with full charge	To be mentioned	
	t. List of Spares Tools and Accessories	List to be provided	
	u. Instruction manual/operation manual maintenance manual Should be provided at a scale of one (01) per equipment in English.	To be mentioned	
	v. Mean time between failure MTBF	To be mentioned	
	w. <u>Environmental Standards</u>		
	(1) Immersion	To be mentioned	
	(2) Drop	To be mentioned with Military Standard classification	
	(3) Fog & Dust	To be mentioned	
	(4) Vibration	To be mentioned	
	(5) Operating Temperature	To be mentioned	
	(6) Storage Temperature	To be mentioned	
	(7) Humidity Permissible Condition for Operation	To be mentioned	
29.	<u>Communication System</u>		
	a. <u>HF/VHF/UHF Radio Set.</u> (Must be a robust original IC based modular digital freq hopping HF/VHF/UHF Radio set which is compatible to BD Army's Existing HF/VHF/UHF Radio Sets)		
	(1) Type of Radio	To be mentioned	
	(2) Brand and Model	To be mentioned	
	(3) Country of Origin	To be mentioned	
	(4) Country of Manufacture and Assembly	To be mentioned	
	(5) Year of Manufacture	Not before the year of contract	
	(6) Color	As per the requirement of Bangladesh Army	
	(7) Frequency Range	To be mentioned	
	(8) Channel Spacing	To be mentioned	
	(9) Number of Total Working Channel	To be mentioned	

Ser	Description	Required Technical Specification	Remarks
	(10) <u>Communication Range (Bangladesh Terrain, Weather, Day and Night)</u>		
	(a) On Move Position Minimum Range	To be mentioned for plain land,urban area and hilly area separately	
	(b) Static Position Minimum Range	To be mentioned for plain land,urban area and hilly area separately	
	(11) Communication Access (Min both for Commander & Crew)	To be mentioned	
	(12) Communication Security	Encryption and frequency hopping to be mentioned, details to be mentioned	
	(13) Power Supply System	To be mentioned	
	(14) Antenna Type	Details of vehicle antenna type to be mentioned	
	(15) Battery Life/ Operating Hours	To be mentioned	
	(16) <u>Transceiver</u>		
	(a) RF Power Output	Minimum and maximum parameters to be mentioned	
	(b) Modulation Type	To be mentioned	
	(c) Receiver Sensitivity	To be mentioned	
	(d) Squelch Type	Details to be mentioned	
	(17) Programming Software	Details to be mentioned	
	(18) Data Communication	To be mentioned in detail with rate	
	(19) Built in Test (BITE)	To be available	
	(20) Messaging Facility	To be mentioned	
	(21) GPS Facility	To be available	
	(22) <u>Operating/ Storage Condition</u>		
	(a) Operating Temperature	-5 to 50°C	
	(b) Storage Temperature	-10 to 55°C	
	(c) Humidity Permissible Condition for Operation	95% and above	
	(23) <u>Environmental Standards</u>		
	(a) Rain/Splash	To be mentioned	
	(b) Drop	To be mentioned	
	(c) Vibration Proof	To be mentioned	
	(24) List of Standard Accessories	Details to be mentioned	
	(25) List of Optional Accessories	Details to be mentioned	
	b. <u>Intercom</u>	Commander must be able to communicate with driver, crews and vice versa. Details to be mentioned	
	c. <u>Crew helmet</u>	Details to be mentioned	

Ser	Description	Required Technical Specification	Remarks
30.	Miscellaneous		
	a. AVLB onboard fitted items	Detail list of all AVLB onboard default fitted items to be mentioned	
	b. Painting	To be mentioned	
	c. Auto Elect Refueling /De-fueling pump (01 pump per AVLB)	To be mentioned	
	d. Remote control system for AVLB operation (if available)	To be mentioned	
31.	Special Items/Equipment (Optional Items) (Available all special Items/Equipment can be fitted on AVLB to be mentioned with separated price as optional Items in financial offer	To be mentioned	
32.	AVLB Accessories, Spares and Tools		
	a. AVLB tools box	AVLB integral all essential tools to be fitted	
	b. AVLB spares, tools and accessories	AVLB integral all spares, essential tools and accessories	
33.	All Equipment's, Component, Radio sets and launching Bridge etc of AVLB will be brand new and will be manufactured not before the year of	Manufacturers have to provide guarantee certificate on that	
34.	All Components should be able to withstand minimum 96% humidity or above typical to Bangladesh weather	Manufacturers have to provide guarantee certificate on that	
35.	All Components i.e. panel boards, gauges, instruments etc marking and display reading should be in English language (To be confirmed by the manufacture)	Manufacturers have to provide guarantee certificate on that	
36.	Petrol Oil & Lubricant (POL) Information	The following information must be submitted with the offer	
	a. Detail maintenance schedule of Equipment & Engine	Information to be submitted. The require Petrol Oil & Lubricant (POL) information to be submitted in compatible with Bangladesh Army	
	b. Grade of diesel used in Equipment		
	c. Type of Engine Oil used in Equipment		
	d. Type of gear Oil used in Equipment		
37.	Part-3: Training Requirement		
	a. User Training (For Engineers)	To be provided as per requirement of Engineer Directorate	
	b. Operating Repair and Maintenance Training (For EME)	As per requirement of EME Dte	
	c. Equipment Management Training (For Ordnance)	As per requirement of Ordnance Dte	
38.	List of Special Service Tools (SST) and Special Service Material (SSM)	Details list to be provided. As per requirement of EME Dte	

Ser	Description	Required Technical Specification	Remarks
39.	List of spare parts for requirement of repair and maintenance	List to be provided as per requirement of EME Dte	
40.	After sales service support/ spares (Minimum 10 years)	Manufacturer have to provide certificate	
41.	<u>Publications/Manuals original in English</u>		
	a. Operation/User manuals	To be provided as per requirement of EME Dte	
	b. 100% updated master spare parts catalogue		
	c. Workshop/Repair manual		
	d. Complete and updated master spare parts price catalogue		
42.	Authorization certificate of manufacturer in favour of principal	To be provided	
43.	<p><u>Part-4. Repair and maintenance requirement list of spares:</u></p> <p><u>Book & Publications.</u></p> <p>a. Owners/operators manual in English (book type) including CD/DVD</p> <p>b. Workshop/repair manual in English (book type) including CD/DVD</p> <p>c. 100% updated master spare parts catalogue in English (book type) including CD/DVD</p> <p>d. Complete and updated master spare parts price catalogue/list in English (book type) including CD/DVD</p>	To be provided as per requirement of Electrical and Mechanical Engineers Directorate	
44.	<u>Part-5.</u> List of fast and slow moving spare parts	Separate list of fast and slow moving spare parts to be provided as per requirement of Electrical and Mechanical Engineers Directorate	
45.	<p><u>Part-6.</u> Tools list for different level of maintenance:</p> <p>a. Analyzer, measuring & testing/ fault finding and diagnostic set</p> <p>b. Special Service Tools (SST)</p> <p>c. Special Service Materials (SSM)</p>	To be provided as per requirement of Electrical and Mechanical Engineers Directorate	
46.	Certificate on Spare Parts available in Bangladesh	Certificate to be submitted from manufacturer	
47.	List and certificate on usage of the equipment by other organizations or agencies in Bangladesh and overseas military forces	List and certificate to be submitted from manufacturer	

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Ser	Description	Required Technical Specification	Remarks
48.	List and certificate of local after-sales-service workshop in Bangladesh who can provide spares of the equipment readily	To be confirmed by the manufacturer as the technical requirement	
49.	Detailed address of after-sale-service workshop in Bangladesh	Details address to be mentioned	
50.	Location of Stage Inspection/Pre-shipment Inspection	Stage inspection/Pre-shipment Inspection with address of respect of major components (manufacturing plant/ assembly plant or in both)	
Note: Following information's/ documents to be supplied along with the offer:			
	a. Details of working principle	Details to be mentioned	
	b. Functional/users training in country to be provided by foreign/Local expert	To be mentioned	
	c. Provision of supply of major spares for minimum 10 years	Certificate to be provided by manufacturer	
	d. Provision of supply fast and slow moving spares for minimum 10 years	Certificate to be provided by manufacturer	
	e. Model validity in years (minimum 15 years)	Certificate to be provided by manufacturer	
	f. List of spares, Special Service Tools (SST)/ Special Service Material (SSM)	List to be provided by manufacturer	
	g. Certificate for export and shipment of equipment from country of manufacturer	No objection certificate to be provided by manufacturer during submission of offer	
	h. Any other relevant technical information may also be enclosed	To be mentioned	