

Eol Ref: CTPAM/Eol/FPIIC/ARV/2025/303 Date: 21.03.2025

BEML LIMITED, BEML SOUDHA,

23/1, 4th Main

SAMPANGIRAMA NAGAR,

BENGALURU - 560027

Notice Inviting

Expression of Interest (EoI)

for Technology tie-up

For

Armoured Recovery Vehicle (ARV) for Indian Army

Reference No: CTPAM/Eol/FPIIC/ARV/2025/303

Due closing date: 22.04.2025

Eol response mail ID: bemleoi@bemlltd.in

Contact for Mr. Madhusudhan BH,

Clarifications: General Manager(O)-R&D

FPIIC, Bangalore Complex, BEML Ltd.,

Bangalore, Karnataka, INDIA

Email: madhusudhan.bh@bemlltd.in

Mobile: +91-7406897591

Issued by

BEML LIMITED

(Schedule 'A' Company under Ministry of Defence, Govt. of India)



Azadi Ka Amrit Mahotsav Eol Ref: CTPAM/Eol/FPIIC/ARV/2025/303 **Eol for technology tie up for Armoured Recovery Vehicle (ARV)** for Indian Army



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SECTION-1

Disclaimer

The information contained in this Expression of Interest (EoI) document provided to the Prospective Collaborator(s), by or on behalf of M/s BEML Ltd., or any of its executives or advisors, is provided to the Prospective Collaborator(s) on the terms and conditions set out in this EoI document and all other terms and conditions subject to which such information is provided.

- 1. The purpose of this EoI document is to provide the Prospective Collaborator(s) with information to assist the formulation of their proposal. This EoI document does not purport to contain all the information each Prospective Collaborator may require. This EoI document may not be appropriate for all persons, and it is not possible for BEML Ltd., its executives or advisors to consider the business/investment objectives, financial situation and particular needs of each Prospective Collaborator who reads or uses this EoI document. Each Prospective Collaborator should conduct his own investigations and analysis and should check the accuracy, reliability and completeness of the information in this EoI document and where necessary obtain independent advice from appropriate sources.
- 2. BEML Ltd., its executives and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the EoI document.
- 3. BEML Ltd., may, in its absolute discretion, but without being under any obligation to do so, modify, amend or supplement the information in this EoI document.
- 4. The issue of this EoI does not imply that BEML Ltd., is bound to select and shortlist any or all the Prospective Collaborator(s). Even after selection of suitable Prospective Collaborator, BEML Ltd., is not bound to proceed ahead with the Prospective Collaborator and in no case be responsible or liable for any commercial and consequential liabilities in any manner whatsoever.
- 5. The Prospective Collaborator(s) shall bear all costs associated with the preparation, technical discussion/presentation and submission of response against this Eol. BEML Ltd., shall in no case be responsible or liable for these costs regardless of the conduct or outcome of the Eol process.
- 6. Canvassing in any form by the Prospective Collaborator(s) or by any other agency on their behalf shall lead to disqualification of their Eol.

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- 7. Notwithstanding anything contained in this EoI, BEML Ltd., reserves the right to accept or reject any application and to annul the EoI process and reject all applications, at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reasons, thereof. In the event that BEML Ltd., rejects or annuls all the applications, it may at its discretion, invite all eligible Prospective Collaborators to submit fresh applications.
- 8. BEML Ltd., reserves the right to disqualify any applicant during or after completion of EoI process, if it is found there was a material misrepresentation by any such applicant or the applicant fails to provide within the specified time, supplemental information sought by BEML Ltd.,
- 9. BEML Ltd., reserves the right to verify all statements, information and documents submitted by the applicant in response to the Eol. Any such verification or lack of such verification by BEML Ltd., shall not relieve the applicant of his obligations or liabilities hereunder nor will it affect any rights of BEML Ltd.,



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SECTION-2

Schedule of EoI process & Contact details

A. Schedule of EoI process

The schedule of activities during the EoI Process shall be as follows -

SI. No.	Description	Date
01	Issue of EoI Document	21.03.2025
02	Last date of Submission of EoI response	22.04.2025

B. Contact Details related to Eol

Mr. Madhusudhan BH,

General Manager(O)-R&D

FPIIC, Bangalore Complex, BEML Ltd.,

Bengaluru, Karnataka, INDIA

Email: madhusudhan.bh@bemlltd.in

Mobile: +91-7406897591

Note:

Submission of the Eol

The EoI shall be submitted **before 22.04.2025 through email only** mentioning EoI reference: CTPAM/EoI/FPIIC/ARV/2025/303 dtd 21.03.2025 in Subject to bemleoi@bemlltd.in

Queries if any, may be forwarded to madhusudhan.bh@bemlltd.in and bemleoi@bemlltd.in



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SECTION-3

ABOUT BEML LIMITED

- a. BEML Limited is a leading multi-technology and multi-location company under the Ministry of Defence operating under three major Business verticals viz., Mining & Construction, Defence & Aerospace and Rail & Metro which are classified into 12 SBU's & 2 Micro SBU's. The three verticals are serviced by manufacturing units at four locations viz Bengaluru, Kolar Gold Fields (KGF), Mysuru and Palakkad.
- b. BEML offers high-quality products for diverse sectors of economy such as Defence, aviation, coal, mining, steel, limestone, power, irrigation, construction, road building, metro & railways.
- c. BEML has emerged as the forerunner of heavy engineering industry with a track record of growth and revenues for over Six decades. For further details please visit our website <u>www.bemlindia.in</u>

More details about the entire range of BEML's products and operations can be viewed by visiting our web site www.bemlindia.in



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SECTION-4

Details of Expression of Interest (EoI)

4.1 Introduction:

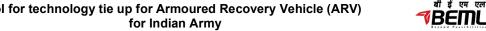
BEML invites Expression of Interest (EoI) from the Prospective Collaborator(s), who are willing to associate with BEML Ltd., through a License & Technology Collaboration Agreement (TCA) for joint development of Armoured Recovery Vehicle (ARV) for Indian Army to enable BEML Ltd., to Design, Engineer, Manufacture, Assemble, Test, Supply, Field Install, Commission, Repair, Service and Retrofit. Ministry of Defence, Govt of India intends to procure Armoured Recovery Vehicle (ARV) under Buy (Indian-IDDM) Category of Chapter II of Defence Acquisition Procedure (DAP) 2020. Buy (Indian)-IDDM Category refers to the acquisition of from an Indian vendor for the products that have been indigenously designed, developed and manufactured with a minimum of 50% Indigenous Content (IC) on cost basis of the base contract price i.e., total contract price less taxes and duties.

The latest version of DAP 2020 can be accessed on GOI, MoD website: https://mod.gov.in/dod/defence-procurement-proc--dap.

4.2 Scope of Cooperation:

BEML Ltd., is seeking Expression of Interest(s) from Prospective Collaborator(s) through TCA for joint development of Armoured Recovery Vehicle (ARV) for Indian Army. The TCA shall enable BEML Ltd., to Design, Engineer, Manufacture, Assemble, Test, Supply, Field Install, Commission, Repair, Service and Retrofit Armoured Recovery Vehicle (ARV) for Indian Army. The Prospective Collaborator(s) meeting the Pre-qualification requirements (PQR) as specified in clause 4.3 below are invited to submit their response to this EoI, as per indicative scope of technology transfer given in **Annexure-1**. Upon receipt of response(s) against this EoI, BEML Ltd., will review the response(s) to ascertain suitability of the offer and shortlist Prospective Collaborator(s) for further discussions. Detailed discussions on commercial and other terms and conditions to finalize the TCA shall be held with shortlisted Prospective Collaborator(s). The detailed terms and conditions for said TCA shall be mutually agreed upon.





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4.3 Pre-qualification requirements (PQR)

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The Prospective Collaborator(s) shall meet following qualification requirements as on the date of submission of EoI (to be substantiated by a documentary evidence):

Prospective Collaborator designed, The should have engineered, manufactured, tested, supplied and commissioned similar vehicle (broad technical specifications at Annexure-3) and such equipment should have completed at least three (03) years of service as on date of closing of this Eol.

OR

2. The Prospective Collaborator should have designed similar vehicles (broad technical specifications at Anenxure-3) and their designed equipment should have completed at least three (03) years of service as on date of closing of this Eol.

Note:

Prospective Collaborator (s) shall take the responsibility for transfer of know how in the area of Design, Engineer, Manufacture and testing of Armoured Recovery Vehicle (ARV) to BEML Ltd., within the specified timeframe.

4.4 Instructions:

4.4.1 The interested Prospective Collaborator(s) should submit their response(s) along with enclosed annexures on or before 22.04.2025.

Annexure-1: Indicative Scope of Technology Transfer.

Annexure-2: Prospective Collaborator's Experience in the field of Armoured Recovery Vehicle (ARV) for Indian Army.

Annexure-3: General technical specifications of Armoured Recovery Vehicle (ARV) for Indian Army proposed for TCA.

Annexure-4: Reference List: The Prospective Collaborator's major supplies in last 15 years.

Annexure-5: Eol response format.

Annexure-6: Certificate as to Authorized Signatories.

Annexure-7: Declaration by the Prospective Collaborator regarding litigation.

Annexure-8: Declaration by the Prospective Collaborator regarding blacklisting.

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- **4.4.2** The response shall necessarily be accompanied with following details:
 - 1. Company background
 - 2. Product Profile
 - 3. Technical details
 - 4. Reference list of customers
 - 5. Annual Audited financial reports for last 3 (three) years.
- **4.4.3 Language:** All correspondences and documents related to the Eol response shall be in English language, provided that any printed literature furnished by the Prospective Collaborator(s) may be written in another language, as long as such literature is accompanied by a translation of its pertinent passages in English language in which case, for purposes of interpretation of the bid, the English translation shall govern, provided that in case the English translation is found to be incorrect at a later stage, BEML Limited will have right to take appropriate action against the Prospective Collaborator as may be deemed fit.
- **4.4.4** The Prospective Collaborator(s) shall abide by the terms & conditions, as applicable, of the EoI.
- **4.4.5** All pages of the response against this EoI shall be duly signed by the authorised signatory. Over writing should be avoided. Copies of the credentials/ documents which are to be annexed must be self-attested and bear the signature and seal of the authorized signatory / authorised representative of the interested Entity/Firm/Company. The interested Entity/Firm/Company will be requested to produce the originals of all information / documents as and when so required by BEML.
- **4.4.6** Multiple proposals from the same Prospective Collaborator should not be submitted.
- **4.4.7** BEML Ltd., at its discretion shall inspect the Prospective Collaborator's works/office/reference site premises for the purpose of evaluation, as deemed necessary before selection of Collaborator. BEML Ltd., decision in this regard shall be final.

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- **4.4.8** Any Prospective Collaborator which has been declared insolvent, bankrupted, debarred/blacklisted by Central/State Governments of India or by any entity controlled by Central/State Governments of India from participating in any of their project, as on date of submission of EoI, shall not be eligible to submit the EoI.
- **4.4.9** BEML Ltd., shall receive applications pursuant to this EoI in accordance with the terms set forth herein, as may be modified, altered, amended and clarified from time to time by BEML Ltd., and all applications shall be submitted in accordance with such terms on or before the date specified in this EoI for submission of applications.

In case any amendment/corrigendum to this EoI is issued, it shall be notified only at www.bemlindia.in. which shall form part of this EoI

- **4.4.10** Restrictions on Prospective Collaborator from a Country which shares a Land Border with India:
 - a) Interested Prospective Collaborator from a country which shares a land border with India will be eligible to respond to this Eol only if interested Prospective Collaborator is registered with Competent Authority (Registration Committee constituted by the Department of Promotion of Internal Trade (DPIIT) of Govt. of India). Such registration should be at least valid for the entire period of Eol due date or any extension thereof.
 - b) Interested Prospective Collaborator from a country which shares a land border with India means: a) An entity incorporated, established or registered in such country; or b) A subsidiary of an entity incorporated, established or registered in such country; or c) An entity substantially controlled through entities incorporated, established or registered in such country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

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- 4.5 REJECTION: An Expression of Interest is liable to be rejected for any of the following conditions:
- 4.5.1 The Expression of Interest is not accompanied by required documentation and has failed to provide clarifications related thereto, when sought by BEML.
- 4.5.2 Misrepresentation, lack of proper documentation, fraud, coercion, undue influence, canvassing etc.
- 4.5.3 The Expression of Interest is received after the closing time and date. If any information which would have entitled BEML to reject or disqualify the applicant becomes known after the applicant has been qualified, it reserves the right to reject the applicant at that time or at any time after such information becomes known to BEML.

4.6. PROCESS TO BE CONFIDENTIAL:

Information relating to the examination, clarification, evaluation and comparison of Eol and recommendations shall not be disclosed to Prospective Collaborator(s). Any effort by Prospective Collaborator(s) to influence BEML Ltd., in processing of Eol or selection decisions may result in the rejection of the response against Eol.

4.7 GOVERNING LAWS & JURISDICTION:

The Eol process shall be governed by, and construed in accordance with the laws of India and the Courts at Bangalore (India) shall have exclusive jurisdiction over all disputes arising under, pursuant to and / or in connection with the EoI process. Foreign entity interested for collaboration with BEML for Armoured Recovery Vehicle (ARV) must have necessary clearance from their Govt. for Technology Sharing/ Transfer & Collaboration.



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Annexure-1

indicative Scope of Technology Transfer
Description

SI. No.	Description
(a)	Licensing and transfer of state- o f - t h e - a r t technology relating to Design, Engineer, Manufacture, Assemble, Test, Supply, Field Install, Commission, Repair, Service and Retrofit Armoured Recovery Vehicle (ARV) for Indian Army.
(b)	Transfer of improvements / modifications / developments / upgradations to be carried out by the Prospective Collaborator(s) during the period of TCA for taking care of new market requirements and obsolescence. Subsequent updates required due to component obsolescence or updates implemented by Prospective Collaborator(s) due to safety consideration would also be provided.
(c)	Assistance in planning & establishing the new manufacturing, assembly and testing facilities & processes / suitable augmentation at BEML Ltd.'s existing facilities / processes by way of expert advice in terms of identifying, sizing & selection and preparation of specification of equipment / machinery required for manufacturing, their layout and foundation etc. Deputation of Collaborator's expert for commissioning of the manufacturing facilities, design of special tools and dies, jigs & fixtures etc.
(d)	Support through engineering services from Collaborator's design office / manufacturing facilities for licensed products.
(e)	Training of BEML Ltd., engineers to Design- know-how knowledge transfer, Engineer, Manufacture, Assemble, Test, Supply, Field Install, Commission, Repair, Service and Retrofit the Armoured Recovery Vehicle (ARV) for Indian Army.
(f)	Deputation of Collaborator's experts to assist BEML Ltd., in absorbing the technology for licensed products.
(g)	Transfer of applicable Proprietary software / computer programs including logics and source code, if any.
(h)	During the field trials and regular operation, if any modifications / updates are carried out to improve the performance / reliability of the system the same shall also be transferred to BEML Ltd., with complete know-how.
(i)	Technology being proposed should be the latest / state-of-the-art being marketed by the Prospective Collaborator.
(j)	Transfer of information to enable BEML Ltd., to source/procure those items, which Prospective Collaborator sources from other vendors (as these are not manufactured by the Prospective Collaborator) for use in Armoured Recovery Vehicle (ARV) for Indian Army.
(k)	Manufacturing 2D drawings of all the developed components are to be prepared. Installation or Mounting drawings of off-the-shelf or proprietary components drawing may be received from the respective suppliers. 2D layout drawings are





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		to be prepared for all sub assembly of components Casting and forging drawings are to be prepared only fo	0)
(1)		Deputation of BEML engineers to work with collaborate to absorb the technology/process being followed for lice	•
(m	1)	Collaborator should enter in to a joint agreement on Inte (IPR) with BEML Ltd.	llectual Property Rights



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Annexure-2

Date: 21.03.2025

Prospective Collaborator's Experience in the field of Armoured Recovery Vehicle (ARV) for Indian Army

SI. No	Requirement	Prospective Collaborator's response YES/NO and remarks, if any
(a)	Whether the Prospective Collaborator is an Original Equipment Manufacturer (OEM) of proposed Armoured Recovery Vehicle (ARV) for Indian Army or similar Vehicle.	
(b)	Whether documentary evidence to substantiate the below PQRs has been submitted by Prospective Collaborator.	
(c)	The Prospective Collaborator should have designed, engineered, manufactured, tested, supplied and commissioned similar vehicle (broad technical specifications at Annexure-3) and such equipment should have completed at least three (03) years of service as on date of closing of this Eol.	
	OR	
	The Prospective Collaborator should have designed similar vehicles (broad technical specifications at Anenxure-3) and their designed equipment should have completed at least three (03) years of service as on date of closing of this Eol.	
(d)	Whether information on market share has been enclosed.	
(e)	Whether Prospective Collaborator's detailed reference list have been enclosed.	
(f)	Whether Prospective Collaborator's annual audited financial reports for last 3 years have been enclosed.	_
(g)	Whether the Armoured Recovery Vehicle (ARV) for Indian Army or similar Vehicle offered for technology collaboration is the latest being marketed by the Prospective Collaborator.	
(h)	Whether customers (end users) letters / documentary evidence for satisfactory operation of model for Armoured Recovery Vehicle (ARV) for Indian Army which is being offered to BEML Ltd., under this EoI have been enclosed.	



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(i)	Whether the Prospective Collaborator owns the IPRs for the technology being proposed for transfer under the Technology Collaboration Agreement (TCA) or have an unencumbered right from the owner of the IPRs to sublicense the technology, if applicable. If yes, whether list of such IPRs is enclosed.	

Signature & Seal:

Authorised Signatory of the Prospective Collaborator



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Annexure-3

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General technical specifications of Armoured Recovery Vehicle (ARV) for Indian Army proposed for TCA

r	
Terrain	Employed for cross country (off road) operations in under
Conditions	mentioned terrain conditions:
	(i) Plain, semi-desert and desert terrain as occurring along
	Western borders of India.
	Wooden Bordere of India.
	(ii) High Altitude (up to 5000 meters altitude) / Mountainous
	terrain as occurring along Northern Borders (Eastern
	Ladakh / Central Sector / North Sikkim) of India.
Weather	Operational by day & night and in commonly encountered
Conditions	weather conditions including snowy, rainy, dusty and sandy
	conditions in the above terrains.
Operating	(a) Plain and Desert Terrain
Temperature	Minimum Operating Temperature: Between 0° to 05° C.
	Maximum Operating Temperature: Between 40° to 45° C.
	(b) High Altitude & Mountain Terrain
	Minimum Operating Temperature: Between (-)35° to (-)10°
	C.
On a notice of	Maximum Operating Temperature: up to 40° C.
Operational	(i) Required to provide repair and recovery cover to disabled
Requirements	Armoured Fighting Vehicles (AFVs) during operations
	under hostile conditions.
	(ii) Required to possess adequate cross-country mobility and
	protection.
	protestion.
	(iii) Required to have the utility equipment to include Crane,
	Dozer, Winches, General Tools and Special
	Maintenance Tools, ancillary equipment etc to
	undertake repair and recovery role.
Chassis	Tracked chassis.
Crew	At least 06 persons (including Driver and Commander).
Service Life	At least 32 years with maximum one overhaul / major repair
	intervention.
Transportability	Capable of being transported by existing In-service tank
	transporter vehicles of the Indian Army, transport aircrafts of the
	Indian Air Force and broad-gauge railway military bogey (Bogey
	Well Type Wagon).
Dimensions	Required to meet operational, transportability and other technical
VA / - 1 - 1 - 1	requirements. Provide the length, width and height of the ARV.
Weight	Gross Vehicle Weight to be 45-50 Ton including carriage
	capacity of minimum 2 Ton of spares / equipment on the loading
Dower to Weight	platform. At least 22 25 HP/Ton with all systems functioning including
Power to Weight Ratio	At least 22-25 HP/Ton with all systems functioning including HVAC.
Natio	HVAC.





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Obstacle	(i) Gradient: ≥30°.	
Crossing Capability	(ii) Side slope: ≥25°.	
	(iii) Vertical Step: ≥0.85 meters.	
	(iv)Trench Width: ≥2.5 meters.	
	(v) Ground Clearance: ≥350 mm.	
Engine	 (i) Diesel fuel – based engine / power pack turbocharged system preferably rear mounted with low thermal an acoustic signature. 	ıd
	(ii) Engine Service Life: 800 – 1000 hours.	
	(iii) Starting Mechanism: At least two methods of starting engine including electric start with main battery and start. In addition to these, combined starting, provisi of slave start & tow start to be provided for use in cathe main starting systems fails.	on
	(iv)Should be provided with a suitable system for starting in sub-zero conditions.	n
Transmission	Manual / Automatic Transmission systems with reduction gear for extra power.	
Steering System	Highly reliable power steering and provide precise control of the vehicle to the driver at various speeds, terrain conditions and load levels and provide capability for pivot turn.	те
Suspension	(i) Provide stable platform while on move and general comfort of all persons inside during cross country move.	
	(ii) Provision for suspension lock during crane operations.	
Armament	 (a) One Remote Controlled Weapon Station (RCWS) with service 12.7 mm Anti – Aircraft Machine with follow specification: (i) Traverse - 360°. (ii) Elevation - 75°. (iii) Depression – (-)5°. 	
	(b) Provision of carrying minimum of 720 rounds of mach gun.	nine
	(c) Capable to lay smoke screens (fuel generated exha	aust
	(d) Provision of Smoke Grenade Discharger. Specify number of launchers / tubes.	the
Protection	(a) Armour Protection: Vehicle should provide following protection against HEAT, HE & FSAPDS:	





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	(i) Front: STANAG (ii) Side: STANAG	4569 Level III
		Rear: STANAG 4569 Level II stem: Capable to detect all known
	types of Chemical Age	ents & Nuclear Radiations and
		ne crew, stick and sub systems ination for at least six hours
	& Fire Suppression Sy automatically extinguis	ire: An Instantaneous Fire Detectionstern must be provided to sh all kinds of fire inside crew & Additionally, qty 04 of manual fire
	, , , , ,	ent should also be provided for ide the ARV and within crew
Water, Moisture	All sights, sensors & sub syst	tems which are mounted on the
& Dust Protection		iter, moisture & dust proof. No wate e crew and engine compartments
	when all hatches are shut.	
Vision Devices		e provided with Thermal Imager e Day sights/ periscopes also to be eness.
Driver's Sight	!	the sight to drive ARV in all terrain
		TI sight (if provided) like the range of cooled technology used, generation
Communication	(a) In-service radio sets (E	BNE) to be installed.
	, ,	rol Harness (DCH) for voice en the crew members to be
		be provided for communication carrying out recovery operations
Navigation	(a) Compatible with IRNS	S and DSM.
Heating Ventilation and Air Conditioning (HVAC)	of 25 ± 5°centigrade inside th	onditioning to maintain temperature ne crew compartment, cure range of (-)20 to 45° centigrade
(,	(a) Provide the power con parameters of HVAC.	sumption and performance
	(b) Specify the source of e	electric & mechanical power for
	(c) Indicate the maximum Temperature Control S	duration of continuous operation o





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	(d) Specify if the HVAC can be functi indicate the duration.	oned on APU and
Auxiliary Power Unit (APU)	Should be provided which can power the the ARV engine is switched off: (a) Arc Welding (b) Operation of power tools (c) External lighting (d) Battery charging	e following system whe
	(i) Indicate the duration of uninterrup be carried out and specify the APU.	
	(ii) Specify the type of fuel used by A	PU.
Utility Portion		
Crane	Telescopic Crane with minimum 15 Ton radius of 3 meters and capability to slew	
	(a) Specify the type of crane and the the telescope crane.	number of sections in
	(b) Indicate the crane boom length in extended condition if the crane is	•
	(c) Provide the details if the crane ha emergency operation in case of h load to be lowered and crane sto	ydraulic failure, for the
	(d) Provide the details if the crane ha the position to avoid collateral da	-
	(e) Specify if the crane can be operate portable console.	ted through an externa
	(f) Indicate the slewing angle so as t / fitment of powerpack, turret and assemblies.	_
	(g) Specify if the crane has a protecti yes, specify details warning devic overloading of the crane.	
	(h) Indicate if auto lubrication of the v	vinch ropes and the
	(i) Indicate if the crane is provided w correct layering of rope during wir rope drum to avoid overlapping.	•





	for technology tie up for Armoured Recove for Indian Army	ry Vehicle (ARV)	¶ € एम ¶BE∏
Eol Ref: CTPAM/Eol	/FPIIC/ARV/2025/303	Date: 21.	03.2025
	(j) Specify if the provision of sus suspension during lifting of he addition to this, provide the ty whether it is mechanical or hy	eavy loads are prov pe of suspension lo	rided. In
	(k) Indicate if the lock is provided stations.	d on which all whee	l bogie
Main Winch	Direct pull of at least 30 Ton and usa 180 m. Should be able to pull at leas layout.	. •	
	(a) Indicate if there are any warn indicate overloading.	ing device(s) / mec	hanism to
	(b) Indicate if there is any portab operations in addition to fixed	-	for winch
	(c) Specify if there is a guiding sydrum for easy winding / unwirentangling and breakage.		
	(d) Specify if there is a facility for rope while winding to avoid d winch drums provided.	•	
	(e) Provide if there is any indicat main winch rope (during un-w (or/and) visual warning signa	vinding) with an aud	
	(f) Specify if there is provision of operation of main winch whic automatically as soon as the	h shall switch 'ON'	
	(g) Specify if there is any provision /unwinding at various speeds		
	(h) Specify if there is any provision mechanical overload protection operations in case of overload	on system to cut off	
	(i) Specify if there is any provision rope without the requirement drive (i.e., free unwinding) sh	of engaging the ma	
	(j) Specify if there is any provision gauge indicator with low- & his warning for Main Winch.	igh-pressure audio	and visual
Auxiliary Winch	Direct pull of at least 2 Ton and usal m. The rope must be capable of car	. •	
	(a) Provide the details if it can it	pull out the main wi	nch rope





Eol for technology tie up for Armoured Recovery Vehicle (ARV)		
hotsav EoI Ref: CTPAM/EoI/F	PIIC/ARV/2025/303	Date: 21.03.2025
	towards the casualty.	
		ication on control panel end of ng un-winding) with an audio gnal.
		/ for auto cleaning of auxiliary to avoid dirt being carried into I.
Fixed & Flexible Tow	Specify if the ARV has the provising Vehicles with both fixed	sion to town and Armoured
Dozer	Provide anchorage of at least 90 capabilities.	Ton and limited dozing
Ancillary Equipment		vith up to 6 mm welding / cutting Amp current capacity and gas
		ne gas welding. Acetylene and e and torches to be provided.
	(iii) Provide if there is state of helmets to undertake provided.	art photo-chromatic welding electric arc welding/cutting
	(iv)Indicate how long can uni out.	nterrupted welding be carried
	(v) Indicate the capacity of acception cylinders and how ma	
	(vi) Specify if there is suitable cylinders catered.	e space for carrying the gas
		linders capable of being refilled nozzles as available in India.
	(viii) Describe the minimum	length of each hose.
	(ix)Specify if gas cutting torc	
Power Tools	Provision for a heavy-duty Drillin Angle grinder up to 230 mm.	g machine up to 19 mm bits and
Loading Platform and Stowage	(i) A loading platform to according few MUAs and other not according to the few MUAs and other not according to the few MUAs over engine of the few MUAs over engine of the few MUAs over the fe	ommodate one engine along with niscellaneous items of In-service werpack compartment. The ole to accommodate a load of
	available in the ARV fo	roper bins/boxes should made or the 'Complete Consolidated Spares Parts, Tools and





	or technology tie up for Armoured Recovery for Indian Army	Vehicle (ARV)	 ¶BEI
otsav EoI Ref: CTPAM/EoI/F	PIIC/ARV/2025/303	Date: 21.	03.2025
	(iii) Specify the load carrying capac (iv)Provision of flexible ropes onbo loading platform. The rope s	ard for securing l	oad on
Repair Shelter and Bench	ends. (i) A repair shelter of appropriate s for technicians. Shelter mate and fire retardant.		
	(ii) Easily removable vice and table inside / outside of ARV.	e capable of being	g stowed
Recovery Tools and Accessories	(i) Provision for recovery tools and anchoring, lifting, pulling and		asks.
	(ii) Fixed and flexible towing attach service AFVs (Same or lowe		abled In-
	(iii) Fastening and lifting slings, pull capacities to lift 15 Ton and	-	
	(iv)Two jacks each of 30 tons capa attachments including rigid of		
<u>Miscellaneous</u>			
Crew Compartment	A door / hatch for access to the stowage provided in addition to hatches for Drivone side of the ARV and from the top.	er and Command	
Water Storage	Provision for 200 liters of drinking wate ARV at same temperature that is exist Compartment. Suitable inlets, outlets, provisions for cleaning should be prov	er should be provi ing inside crew drainage, plumbir	
	(a) Specify the number of water ta location that can be provided.	anks with their cap	oacity and
	(b) Indicate if the facility for manual with filled ones in quick time-fra special tools be provided.		-
	(c) Indicate if inlets for quick filling provided.	of water in tanks	be
Ergonomics	(a) Specify the orientation of each while seated.	crew and stick m	nember
	(b) Specify if the door / hatch for a compartment in addition to hatch Commander on one side and to	hes for Driver and	•
Recovery Tools	(a) Specify the Items that are reco	mmended as Co	mplete





Azadi _{Ka}	r technology tie up for Armoured Recove for Indian Army	ry Vehicle (ARV)
Eol Ref: CTPAM/Eol/Fl	PIIC/ARV/2025/303	Date: 21.03.2025
and Accessories	Consolidated Equipment Sch	edule'(CCES) of the ARV.
	(b) Provision for recovery tools anchoring, lifting, pulling and available with ARV.	
	(c) Provision for Fixed and flexil pull disabled In-service AFVs	_
	(d) Provision for Push bars to per (less MBT Arjun).	ush disabled in-service AFVs
	(e) Provision for Fastening and shackles, of capacities to lift	
	(f) Provision for two jacks each towing attachments including	
	(g) Specify if there is a provisior length equal to the width of A of ARV	
	(h) Provide the diameter of the	wooden log
	(i) Provision of Working light wi cable and portable search ligh	_
	Equipment as mentioned in E	s for Tank T-72/ T 90 and ICV mbers are made available. If
Maintainability	(a) Modular systems & sub-senable quick replacements level. Maintenance Transfer sustenance of ARV should be	systems to be provided to & repairs at field workshop of Technology (MToT) for
	carried out in the u involving replacemer	repairs (refer Appendix B to): I 1 (O1) Level): Repairs nit holding the equipment, nt of minor components/ do not require any Special
	field workshop, ir components/ major s require Special Ma	I 2 (O2) Level): Repairs by a nvolving replacement of sub-assemblies, which may aintenance Tools (SMTs) ostics using Special Test





Azadi _{Ka}	r technology tie up for Armoured Red for Indian Army	covery Vehicle (ARV)	PET
Eol Ref: CTPAM/Eol/F	PIIC/ARV/2025/303	Date: 21.0	03.2025
	Equipment (STE Equipment (BITE)	s)/ Test Jigs/ Built facility.	In Test
	of field workshop Special Test Equ diagnostics. Thes	evel: Repairs beyond the p, which require sophouipment (STEs)/ Test se include repairs to hough repairs/ replacer omponents.	listicated Jigs for rotables/
	established to avo in terms of factory component level	Level): Base repair cap old dependence on many repairs. These repairs (repairs of rotables/ ass Major Unit Assembly	ufacturer 6 include semblies,
	(c) Provide the Expected M and Mean Time Taken current level of experien (for major critical sub sys	n to Repair (MTTR) bance in exploitation of ed	ased on quipment
	(d) Provide the details of used in the vehicle.	•	
Quality Assurance	ARV and all system should be to following:	robust in construction &	& comply
	(a) JSS: 55555 applicable to	o the ARV	
	(b) MIL STD – 461E and M parameters.	IIL STD – 461C/D for EN	/II / EMC
Training Aids	(a) Simulator for training di the details of proposed frame of training for repa at separate levels (opera	strength of personnel a air & maintenance and o	and time
	(b) Sectionized working mo and minor assemblies.	odels and cut models of	all major
	(c) AR / VR and Compute honing skills to opera automotive & Utility Portion	ate, maintain and re	
	(d) Provide the details of training aids available in Technical Manual (IETM) to component level.	the form of Interactive E	Electronic
Miscellaneous	(a) Specify if the vehicle is starting (electrically) cemergency?	•	

Azadi _{Ka} Amrit Mahotsav

Eol for technology tie up for Armoured Recovery Vehicle (ARV) for Indian Army



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- (b) Specify if the vehicle adequate has stowage arrangements for carrying its own Consolidated Complete Equipment Schedule (CCES)/Table of Tools and equipment (TOTE) items and special maintenance tools (SMTs)/Special Test Equipment (STEs)?
- (c) Specify if the vehicle has space for additional recovery equipment and administrative stores (Cooking utensils, drinking water tanks, electric heater, electric kettle, sleeping bags, stretcher (for casualty evacuation), first aid box etc.)?
- (d) Provision for carrying additional two fuel barrels (200 ltrs each) with proper securing facilities.
- (e) Provide the details of Availability of Intellectual Property Right (IPR) documentation/ Patents/ Design registrations/ copyright/ NATO Stock Number (NSNs) with reference to systems/sub-systems, wherever applicable.
- (f) **Product Support Codification:** The bidders acceptance to either provide existing NATO Stock Number (NSNs) of the OEM or codify the items supplied under the contract as per part list (including MRLS) in consultation with the MoD/ Directorate of Standardization in a time bound manner
- (g) Provide the details of INCOTERMS 2020 are suitable/ preferred and the reasons.

Signature & Seal:

Authorised Signatory of the Prospective Collaborator



Azadi Ka Amrit Mahotsav Eol Ref: CTPAM/Eol/FPIIC/ARV/2025/303 Eol for technology tie up for Armoured Recovery Vehicle (ARV) for Indian Army



Annexure-4

Date: 21.03.2025

Reference List: The Prospective Collaborator shall furnish a summary of their product reference as detailed below for major supplies in last 15 years

SL No	Name of Country where Armoured Recovery Vehicle (ARV) for Indian Army or similar Vehicle was supplied	No. of unit supplied	Year of Supply

Phone: Mobile:

Fax: E-mail:

Azadi Ka Amrit Mahotsav Eol Ref: CTPAM/Eol/FPIIC/ARV/2025/303 Eol for technology tie up for Armoured Recovery Vehicle (ARV) for Indian Army



Annexure-5

	(To be printed and	submitted on Prospective Colla	horator's official letterhead		
	{To be printed and submitted on Prospective Collaborator's official letterhead}				
		EoI RESPONSE FORMA	ΛT		
То	,				
Co	rporate Purchase				
BE	ML Limited				
SR	R Nagar, Bangalore 5	60027			
E-r	mail: bemleoi@bemll	td.in			
De	ear Sir,				
Ref: Expression of Interest to collaborate with BEML Limited for Notice Inviting Expression of Interest (EoI) for technology tie up for Armoured Recovery Vehicle (ARV) for Indian Army					
Having examined the Expression of Interest (EoI) document dated, downloaded from the BEML Limited website, i.e., www.bemlindia.in , we, the authorised signatories of the Prospective Collaborator, intend to submit the response/proposal to the aforesaid EoI document.					
We attach hereto the response/proposal to EoI as required as per the EoI document, which constitutes our response to EoI. Primary and Secondary contacts for our company are:					
[<u>·</u>	On a surdam of Careta at		
	_	Primary Contact	Secondary Contact		
-	Company Name:				
-	Name:				
	Title:				
	Address:				

Azadi _{Ka}

Eol for technology tie up for Armoured Recovery Vehicle (ARV) for Indian Army



Date: 21.03.2025

EoI Ref: CTPAM/EoI/FPIIC/ARV/2025/303

We confirm that the information contained in this response or any part thereof, including its exhibits, and other documents and instruments delivered or to be delivered to BEML Limited are true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead BEML Limited in its short-listing process nor suppressed any material facts.

We fully understand and agree that on verification, if any of the information provided herein is found to be false /misleading, our response / proposal is liable to be disqualified / rejected from the selection process or termination of the definitive agreement, if the Prospective Collaborator is selected, besides other action as may be required as per the BEML Limited Purchase Manual.

We agree to the unconditional acceptance of all the terms and conditions set out in the EoI document.

It is hereby confirmed that I / We are entitled and duly authorised to act on behalf of the Prospective Collaborator and empowered and authorised to sign this document as well as such other documents, which may be required in this connection.

Dated this

(Signature)
(In the capacity of)
(Name)

Duly authorized to sign the Eol Response for and on behalf of:

(Name and Address of the authorised representative/signatory with Seal / Stamp of the Prospective Collaborator)

Witness Signature:

Witness Name:

Witness Address:

Azadi _{Ka} Amrit Mahotsav Eol Ref: CTPAM/Eol/FPIIC/ARV/2025/303 **Eol for technology tie up for Armoured Recovery Vehicle (ARV)** for Indian Army



Annexure-6

Date: 21.03.2025

{To be submitted in the letter head of the Prospective Collaborator}

CERTIFICATE AS TO AUTHORIZED SIGNATORIES

l,					., the Co	mpany S	Secretary
of						,	the
Prospective	Collaborator	herein	do	hererby	certify	that	Mr./Ms
				Who	signed th	e Eol fl	oated by
BEML for tech	nology tie up fo	r Armoure	d Rec	overy Vehicl	e (ARV) fo	or Indian	Army is
authorized to o	lo so and bind th	e compan	y by a	uthority of its	board / g	overning	body.
	Date	e:					
	Sigr	nature:					
	(Co	mpany Se	al)				

Azadi _{Ka} Amrit Mahotsav Eol Ref: CTPAM/Eol/FPIIC/ARV/2025/303 **Eol for technology tie up for Armoured Recovery Vehicle (ARV)** for Indian Army



Date: 21.03.2025

Annexure-7

{To be submitted in the letter head of the Prospective Collaborator}

DECLARATION BY THE PROSPECTIVE COLLABORATOR

This is to certify that we,	, the Prospective Collaborator
herein do not have any litigation, arbitration ca	ases or any litigation against BEML Ltd
pending before any Court / Arbitrator in connec	ction with any contract / tender issued
by BEML Ltd.	
	Signature of Prospective Collaborator
	(with Seal /Company Seal)

Azadi Ka Amrit Mahotsav Eol Ref: CTPAM/Eol/FPIIC/ARV/2025/303 EoI for technology tie up for Armoured Recovery Vehicle (ARV) for Indian Army



Date: 21.03.2025

Annexure-8

{To be submitted in the letter head of the Prospective Collaborator}

DECLARATION BY THE PROSPECTIVE COLLABORATOR

This is to certify we	have not been banned
black listed / debarred by BEML / C	entral / State Govt. Dept. / Autonomous
Institution / PSUs in India at the time	of bid submission.
I / we hereby certify that all the inform	ation given above are true and correct.
Signature with date of Authorized sign	natory
Name:	
Designation:	
Firm's Seal:	_