Azadi <sub>Ka</sub> Amrit Mahotsav Eol for technology tie up for Specialist Mobility Vehicle (SMV) for Indian Army

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Eol Ref: CTPAM/Eol/FPIIC/SMV/2025/305

Date: 21.03.2025

**BEML LIMITED**,

**BEML SOUDHA**,

23/1, 4<sup>th</sup> Main

# SAMPANGIRAMA NAGAR,

**BENGALURU - 560027** 

**Notice Inviting** 

**Expression of Interest (Eol)** 

for Technology tie-up

# For

# **Specialist Mobility Vehicle (SMV) for Indian Army**

Reference No:	CTPAM/Eol/FPIIC/SMV/2025/305
Due closing date:	22.04.2025
Eol response mail ID:	bemleoi@bemlltd.in
Contact for Clarifications:	Mr. Madhusudhan BH, General Manager(O)-R&D FPIIC, Bangalore Complex, BEML Ltd., Bangalore, Karnataka, INDIA Email: <u>madhusudhan.bh@bemIltd.in</u> Mobile: +91-7406897591

# **Issued by**

# **BEML LIMITED**

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



Azadi Ka Amrit Mahotsav EOI Ref: CTPAM/EOI/FPIIC/SMV/2025/305

Date: 21.03.2025

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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 Eol document is to provide the Prospective Collaborator(s) with information to assist the formulation of their proposal. This Eol document does not purport to contain all the information each Prospective Collaborator may require. This Eol 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 should conduct his own investigations and analysis and should check the accuracy, reliability and completeness of the information in this Eol 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 EoI. BEML Ltd., shall in no case be responsible or liable for these costs regardless of the conduct or outcome of the EoI 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 EoI.



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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.
- 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.,
- BEML Ltd., reserves the right to verify all statements, information and documents submitted by the applicant in response to the EoI. 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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Eol for technology tie up for Specialist Mobility Vehicle (SMV) for Indian Army

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# SECTION-2

#### Schedule of Eol process & Contact details

#### A. Schedule of Eol process

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

SI. No.	Description	Date
01	Issue of EoI Document	21.03.2025
02	Last date of Submission of Eol 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/SMV/2025/305 dtd 21.03.2025 in Subject to <u>bemleoi@bemlItd.in</u>

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

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Date: 21.03.2025

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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 <u>www.bemlindia.in</u>

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EoI Ref: CTPAM/EoI/FPIIC/SMV/2025/305

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#### **SECTION-4**

#### **Details of Expression of Interest (Eol)**

#### 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 Specialist Mobility Vehicle (SMV) 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 Specialist Mobility Vehicle (SMV) 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 Specialist Mobility Vehicle (SMV) for Indian Army. The TCA shall enable BEML Ltd., to Design, Engineer, Manufacture, Assemble, Test, Supply, Field Install, Commission, Repair, Service and Retrofit Specialist Mobility Vehicle (SMV) 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.



#### 4.3 Pre-qualification requirements (PQR)

The Prospective Collaborator(s) shall meet following qualification requirements as on the date of submission of EoI (to be substantiated by a documentary evidence): 1. 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 EoI.

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 Specialist Mobility Vehicle (SMV) 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 Specialist Mobility Vehicle (SMV) for Indian Army.

**Annexure-3**: General technical specifications of Specialist Mobility Vehicle (SMV) 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 Eol 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 Eol is issued, it shall be notified only at www.bemlindia.in. which shall form part of this Eol

**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 EoI 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 EoI 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 EoI and recommendations shall not be disclosed to Prospective Collaborator(s). Any effort by Prospective Collaborator(s) to influence BEML Ltd., in processing of EoI or selection decisions may result in the rejection of the response against EoI.

### 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 Eol process. Foreign entity interested for collaboration with BEML for Specialist Mobility Vehicle (SMV) must have necessary clearance from their Govt. for Technology Sharing/ Transfer & Collaboration.

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Date: 21.03.2025

	<u>Annexure-1</u> Indicative Scope of Technology Transfer
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 Specialist Mobility Vehicle (SMV) fo Indian Army.
(b)	Transfer of improvements / modifications / developments / upgradations to be carried out by the Prospective Collaborator(s) during the period of TCA fo taking care of new market requirements and obsolescence. Subsequen 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 o identifying, sizing & selection and preparation of specification of equipmen / 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 Specialist Mobility Vehicle (SMV) 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 sha 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 Specialis Mobility Vehicle (SMV) 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



# Eol for technology tie up for Specialist Mobility Vehicle (SMV) for Indian Army



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		to be prepared for all sub assembly of compo Casting and forging drawings are to be prepared	•	•
	(I)	Deputation of BEML engineers to work with coll to absorb the technology/process being followed	•	
	(m)	Collaborator should enter in to a joint agreement (IPR) with BEML Ltd.	on Intellectual P	Property Rights

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Azadi <sub>Ka</sub> Amrit Mahotsav बी ई एम एल BEML

Eol Ref: CTPAM/Eol/FPIIC/SMV/2025/305

Date: 21.03.2025

#### Annexure-2 Prospective Collaborator's Experience in the field of Specialist Mobility Vehicle (SMV) for Indian Army SI. Requirement **Prospective** No Collaborator's response YES/NO and remarks. if any Whether the Prospective Collaborator is an Original (a) Equipment Manufacturer (OEM) of proposed Specialist Mobility Vehicle (SMV) for Indian Army or similar Vehicle. Whether documentary evidence to substantiate the below (b) PQRs has been submitted by Prospective Collaborator. The Prospective Collaborator should have designed, engineered, manufactured, tested, supplied and (c) similar vehicle (broad technical commissioned 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. Whether information on market share has been enclosed. (d) (a) Whether Prospective Collaborator's detailed reference list

(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 Specialist Mobility Vehicle (SMV) for Indian Army or similar Mobility 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 Specialist Mobility Vehicle (SMV) for Indian Army which is being offered to BEML Ltd., under this EoI have been enclosed.	

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Eol R	ef: CTPAM/EoI/FPIIC/SMV/2025/305	Date: 21.03.202	5
(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 sub- license the technology, if applicable. If yes, whether list of such IPRs is enclosed.		

# Signature & Seal:

Authorised Signatory of the Prospective Collaborator



Date: 21.03.2025

#### Annexure-3 General technical specifications of Specialist Mobility Vehicle (SMV) for Indian Army proposed for TCA

Kerb Weight	Loss than 2600 Kas
Crew	Less than 2600 Kgs.
	Minimum 09 personnel including driver. Front and Rear Disc brake.
Braking	
Operating Range	250-300 KM on full fuel.
Suspension	Independent Front and Rear suspension.
Maneuverability	Maximum Speed
	Hard Soil Terrain: 40 km/h.
	Desert Terrain: 25-30 km/h.
	Marshy Terrain: 20 km/h.
	Snow Terrain (1ft snow): 15-20 km/h.
	Gradeability
	Hard Soil Terrain: 30°
	Dessert Terrain: 25°
	Snow Terrain: 20°
	Side Slope
	Maximum 20°
Vertical Step	1 meter.
Trench	750 mm.
Turning Radius	On Spot Skid Turning.
Operating Altitude	Up to 14500 Ft with full payload.
Operating	(a) Plain and Desert Terrain
Temperature	Minimum Operating Temperature: Between 0° to 05° C.
	<ul> <li>Maximum Operating Temperature: Between 40° to 45° C.</li> </ul>
	(b) High Altitude & Mountain Terrain
	<ul> <li>Minimum Operating Temperature: Between (-)35° to (- )10° C.</li> </ul>
	<ul> <li>Maximum Operating Temperature: up to 40° C.</li> </ul>
Fording Capability	Minimum depth of water at which fording is possible for the
r ording oupdointy	vehicle is 2 Ft.
Miscellaneous	To be Weapon Mounted. Specify the type of weapon that
	can be mounted (LMG / MMG).
	Ground Clearance: More than 550 mm.
	Towing Capacity: Up to 2000 kg.
	Winch Mechanism: 2000- 3000 kgs.
	Lighting: LED headlights.
	<b>Tyres/ Wheels:</b> Tubeless type with provision of CTIS and RFS system. Tyre Pressure Monitoring System is provided.
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	Compliance certificate with respect to tyres and rim as Indian regulation is provided.	s per
	<b>Cargo System:</b> Yes, metal racks with quick rail syste loading of vehicle is provided.	m for
	Camouflage: Yes.	
Transportability	The vehicle can be transported by Air, Rail and Road	
Safety Arrangement	Vehicle: ROPS, fire extinguisher, and first aid kit.	
<b>A</b>	<b>Passengers:</b> Seat Harness for all occupants.	
Accessories	Yes, Will provide after specification finalization.	
Engine Capacity	Power >190HP.	
Drive Mode	4 X 4, Yes it can switch mode on fly.	
Power to Weight	>20 HP/Ton.	
Ratio Transmission	Automatic Transmission.	
Side Slope	Not less than 17°.	
Gradient	Not less than 30°.	
Steering	Electro-Hydraulic power steering system.	
Wheeled	Wheeled, Spare Tyre - One per vehicle.	
Payload capacity	>1Ton.	
Maximum Speed	>40 kmph on rd.	
Operating in all- weather	Yes.	
Emission Standards	BS IV or above.	
Floatation	Should have floatation capability with speed not less t	than 05
	kmph in water.	
Cold Start System	To be provided with the integrated cold engine start s and HVAC.	ystem
Service Life	Minimum 10 years.	
Roll Cage	Certified Roll Over Protected System in the SMV.	
FOL and Batteries	Type and grade of FOL and Batteries should be easily	У
<b>T</b>	available commercially in India.	
Transmission	Capable of moving cross country and across water be	
Display	Digital Display available in the driver's console of SM equipment is GNSS based Navigation system to inclu NAVSTAR, GLONASS and IRNSS.	
Software	The system should have indigenous software. Free s upgrades to be provided as and when available.	oftware
	Artificial Intelligence: Yes, Al based Drive Fatigue Mo System can be incorporated.	onitoring
Industry Standards	It complies with the mentioned standards	
-	(i) ISO 9001 2008/2015.	
	(ii) ISO 2000 for service management.	
	(iii) ISO 27000 for Information Security.	
	(iv) AS:9100 certification which is the latest intern	ational



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	for Indian Army		
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		t System standard for the (AS&D) Industry, created	
Engineering Support Package to be provided	lifetime sustenan	ing Support Package' (E nce of equipment for s to include the following:	various
		ance Tools/Special Test MTs/STEs)/Test on Gauges	<u>t</u>
		Maintenance Tools (SMTs ance and repair related ta	
	Jigs for d	Fest Equipment (STEs) / 1 liagnostics to support ance and repair tasks.	ſest
	(aac) Inspectio standards/tolera	n gauges to check service inces.	eability
	· · ·	clude subassemblies as at Level Repairs (CLR).	well as
	Part List (ISPL) and m	re to include Illustrated Sp nanuals covering all aspe maintenance, diagnostics pelons.	cts
		tes/aids for training of rance and maintenance	
	(ae) Inspection standa serviceability of equip modules/comments.		
	Diagnostic (OBD) so access the data log a maintenance, the in	ce / laptop based on Boa canner shall be provided and reset option. For prev puts maybe collected fron hall provide residual life a perator.	to ventive m on
	OEM for interactiv	ainer must be developed re Electronic Technical Ma rovided for technical litera	anual
	Tool/Special Tes	of any Special Main st Equipment (SMTs/S rovided as part of Eng	STEs) /



## Additional technical specifications of Specialist Mobility Vehicle (SMV)

Operating Temperature	Provide if the vehicle requires any special modification kit for operation at specific altitude and temperature.	
Maneuverability	(i) Provide the maximum speed of the SMV while negotiating water bodies during fording.	
	<ul> <li>Provide the details of the capability for gradient manoeuvrability, if it would be affected by varied types of terrain conditions.</li> </ul>	
	(iii) Provide the details of the capability for side slope gradient manoeuvrability, if it would be affected by varied types of terrain conditions.	
Fording Capability	Provide the maximum speed of water current at which fording can be carried out.	
Floatation Capability	(i) Describe if the vehicle has floatation capability in canals, static water bodies and sea (near the shore).	
	(ii) Provide the maximum bank angle which the vehicle can negotiate while entering and exiting the water body.	
Tyres / Wheels	Specify the size of tyres and wheels (in mm) provided in the vehicle.	
Engine Capacity	<ul> <li>Provide if there is any de-rating of the engine with increase in altitude. If yes, provide the maximum altitude beyond which the de-rating of the engine commences for SMV. Provide the percentage of de-rating of engine with corresponding increase in operating altitude per 1000ft.</li> </ul>	
	(ii) Provide the life of the engine in terms of both engine hours and kilometres.	
	(iii) Provide the time required for the vehicle to commence operation after ignition.	
Fuel, Oils and Lubricants	(i) Provide the type and grade of FOL used for operating the SMV.	
(FOL)	(ii) Provide the fuel capacity (in litres) of the SMV.	
Cold Start System	(i) Provide the temperature at which the Cold Start System is required to be activated to start the vehicle engine.	
	<ul> <li>Provide the time required for the Cold Start System to warm up the engine to function optimally in cold conditions.</li> </ul>	
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	(iii)	Provide details of cabin temperature as under:	temp maintained at ar	nbient
		(aa) Minimum Tempera (ab) Maximum Tempera	ature 45° C.	
Software	(i)	Provide the software se debugging procedures.	curity measures and the	ıe
	(ii)	Provide the adequate se package which makes it hacking.		
Artificial Intelligence		de any other artificial intelli porated.	gence systems that can	ıbe
Engineering Support Package (ESP).	(i)	Provide a brief on you following levels of re Schedule I to Chapte Procedure (DAP 2020):	epairs (Refer Append	dix B o
		(aa) Unit (Organizationa out in the Unit hold replacement of mino which do not require a (SMTs).	ing the equipment, or components/subas	involvin semblies
		(ab) Field (Organization field workshop, components/major suba Special maintenance diagnostics using Spec Jigs/Built In Test Equipr	involving replacem assemblies, which ma Tools (SMTs) supp ial Test Equipment (S	nent o ay requir ported b
	(iii)	Provide the period for support for sustenan supply of spares/AMC/	ce of equipment in	
	(iv)	Provide the details on in manufacturing of p support from all sub same period, as comm	product. Specify if the vendors also assure	e produ
	(v)	Provide the enginee offered. Specify if the provided.		
	(vi)	Provide the details of provided by the OEM from sub-vendors.		
Repair & Maintenance	(i)	Provide is the provision SMV.	n for repair and mainte	enance o



# Eol for technology tie up for Specialist Mobility Vehicle (SMV) for Indian Army



otsav		for Indian Army		0025
Eol Ref: CTPAM/Eol/F	PIIC/SMV/	2025/305	Date: 21.03.2	2025
	(ii)	Provide the details if the routed back to the vendo be the total down time transportation to earmarke	r for repairs, and what for such systems (incl	would
	(iii)	Provide if the vendor ha facility for major assem repair.		
	(iv)	Provide the details of the Repairs being offered by t		Level
	(v)	Specify the levels of rep Level and Base Level Re of repairs at each level.	-	
	(vi)	Specify and provide the infrastructure facility re repair/replace the component	equired at Field leve	
	(vii)	Give inputs on aspect rel overhauls / repairs, life support, Obsolescence Ma	time maintenance & s	
	(viii)	Provide the repair & ma OEM to include periodic intent towards establishme	city of midlife interven	ntions,
Equipment Specific Inputs	(i)	Provide the details if the construction to facilitate defective module. Specif (MTTR) for repairs through	repairs in field by repl y the Mean Time to F	lacing
	(ii)	Specify the Mean Time equipment and its main as	•	F) for
	(iii)	Specify the expected life assemblies like engine, tx like alternator, compre applicable) in terms of usa	n, gear box, axles & rot ssor, self-starter etc.	tables
	(iv)	Provide the details if you Equipment (BITE) to sup through modular replacen of BITE facilities and up facilities being provided v assembly).	pport diagnostics and nent. If yes, specify the p to what levels are	repair types these
	(v)	Provide the details if t applicable to your equipm restored in field in case o specify if it is upgradab	ient. If yes, specify if it c if any fault. In addition to	an be o this,



a		Specialist Mobility Vehicle (SMV) वी ई एस ndian Army
Eol Ref: CTPAM/Eol	/FPIIC/SMV/2025/305	Date: 21.03.2025
	license is a	vailable.
	have coun	ne equipment or any of its sub system that ter to display cumulative usage to facilitate ed preventive/periodic maintenance.
		ndian origin generators and batteries with where applicable.
		the details of Indian equivalents of oils & used with equipment.
		nould preferably be right hand drive. Specify table driver/co-driver seat provided.
		e items to be provided in instrument cluster. ne instrument cluster is water proof.
	type of he Specify if reverse	he quantity of numbers of windshield, wiper, ead light, tail light & fog lamps provided. there are rear view mirrors, side indicators, light/alarms/battery charging indicator, lamp connector, altimeter and horn provided cle.
Product Support	(i) Specify the second	the type of arrangement for glove box ne kind of 'Product Support' ensured for ide the 'Time Period'.
	(ii) Specify if with SMV.	life time product support can be provided
Spares	with estab	ils of vendors, sub vendors especially those lishments in India as also readiness/Lead ds spares provisioning.
	(ii) Specify th spares pos	e philosophy for management of repairs and t contract.
		the OEM / vendor has base overhaul davailability of Infrastructure for the same in
Product Support for Codification	Number (NSNs) c the contract as pe	ce to either provide existing NATO Stock f the OEM or codify the items supplied under r part list (including MRLS) in consultation ectorate of Standardisation in a time bound
Training Aspects of		ining facilities available at the OEM/Vendor o conduct training of the Crew, Maintenance

Azadi ka	<sup>-</sup> techno	logy tie up for Specialist Mobility Vehicle (S for Indian Army	SMV)	
Eol Ref: CTPAM/Eol/FP	IC/SMV	//2025/305	Date: 21.03.2025	
Specialist Mobility Vehicle (SMVs)	(ii)	and DGQA personnel. Describe how the vendor will assist/f training for User, DGQA and Mainter		
	(iii)	India and for what duration. Specify if there is any skill set desired	l for the trainee.	
	(iv)	Specify if there is any need for a sp required for the training. Simulators/Training Aids for the equip and can be provided by the vendor.	Confirm whethe	r
	(v)	Provide the details if the vendor will Computer Based Training package User Handbook and Training Manu the training and specify the likely cost	es, soft copies o uals and IETMs fo	f
	(vi)	Describe what type of user and te manuals likely need to be provided what are the likely costs of each.		
Miscellaneous	(i)	Provide the details if the OEM/Vendor SMV to verify its performance at different temperatures. Specify the temperature the locations where the vehicle has be indicate the range and endurance act	rent altitudes and res and altitudes of een operated and	
	(ii)	Provide the details if the vehicle been altitude areas/desert/terrains. Specify special maintenance schedules requi such areas.	if there are any	l
Monitoring cum Diagnostic Equipment	Diagr data l inputs	ify if there is a handheld device/ laptop nostic (OBD) scanner that shall be prov log and reset option. For preventive ma s maybe collected from on board senso de residual life and reliability status to c	vided to access the aintenance, the ors and shall	

Signature & Seal:

Authorised Signatory of the Prospective Collaborator

7/
Azadi <sub>Ka</sub> Amrit Mahotsay
Amrit Mahotsav

Eol Ref: CTPAM/Eol/FPIIC/SMV/2025/305

Date: 21.03.2025

#### Annexure-4 Reference List: <u>The Prospective Collaborator shall furnish a summary of their</u> <u>product</u> reference as detailed below for major supplies in last 15 years

SL No	Name of Country where Specialist Mobility Vehicle (SMV) for Indian Army or similar Vehicle was supplied	No. of unit supplied	Year of Supply



Eol Ref: CTPAM/Eol/FPIIC/SMV/2025/305

Date: 21.03.2025

## Annexure-5

{To be printed and submitted on Prospective Collaborator's official letterhead}

## Eol RESPONSE FORMAT

To,

Corporate Purchase BEML Limited SR Nagar, Bangalore 560027 E-mail: bemleoi@bemlltd.in

Dear Sir,

#### Ref: Expression of Interest to collaborate with BEML Limited for Notice Inviting Expression of Interest (EoI) for technology tie up for Specialist Mobility Vehicle (SMV) for Indian Army

Having examined the Expression of Interest (EoI) document dated \_\_\_\_\_\_, downloaded from the BEML Limited website, i.e., <u>www.bemlindia.in</u>, 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:



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**¶BEML** 

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 <sub>Ka</sub> Amrit Mahotsay	Eol for technolog	• •	Specia ndian Ar	•	ehicle (SMV	')		
	/EoI/FPIIC/SMV/20	)25/305			Da	Date: 21.03.2025		
						Anı	nexure-6	
{To	be submitted in th	ne letter he	ead of	the Prospec	tive Collab	orator}		
	CERTIFICATE			·				
l,					., the Cor	mpany S	Secretary	
of						,	the	
Prospective	Collaborator	herein	do	hererby	certify	that	Mr./Ms	
Fiospective	Collaborator		uu	пегегру	Certify	ulai	1011./1015	
				Who	signed th	e Eol flo	oated by	
BEML for tec	hnology tie up	Specialist	Mobili	ity Vehicle	(SMV) for	Indian	Army is	
authorized to o	do so and bind the	e compan	y by au	uthority of its	s board / go	overning	body.	

Date:

Signature:

(Company Seal)



Date: 21.03.2025

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**¶BEML** 

Eol Ref: CTPAM/Eol/FPIIC/SMV/2025/305

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 cases or any litigation against BEML Ltd pending before any Court / Arbitrator in connection with any contract / tender issued by BEML Ltd.

Signature of Prospective Collaborator

(with Seal /Company Seal)



Eol Ref: CTPAM/Eol/FPIIC/SMV/2025/305

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 / Central / State Govt. Dept. / Autonomous

Institution / PSUs in India at the time of bid submission.

I / we hereby certify that all the information given above are true and correct.

Signature with date of Authorized signatory

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Firm's Seal:\_\_\_\_\_