

**REQUEST FOR INFORMATION: PROTECTED MOBILITY VEHICLE (PMV)
FOR HIGH ALTITUDE (HA)**

1. The Ministry of Defence, Government of India is desirous of procuring Protected Mobility Vehicle (PMV) High Altitude (HA) for deployment above 4000m for the Indian Army. With the view to identify probable vendors who can undertake the said project, the OEMs / Vendors are requested to forward information on the product which they can offer.

2. The RFI consists of three parts as indicated below:-

(a) **Part I.** The first part of RFI incorporates operational characteristics and broad technical requirements that should be met by the vehicle, tentative date of the issue of RFP and the approximate quantity required to be procured.

(b) **Part II.** The second Part of RFI incorporates guidelines for framing criteria for vendor selection / pre-qualification in Buy India (IDDM), Buy (Indian) and Buy & Make (Indian) cases.

(c) **Part III.** The third Part of RFI states the methodology seeking response of vendors. Submission of incomplete response format will render the vendors liable for rejection.

**PART I: OPERATIONAL CHARACTERISTICS AND
BROAD TECHNICAL PARAMETERS**

3. Indian Army seeks Protected Mobility Vehicle (PMV) (HA) with the following mandatory characteristics:-

(a) **Technical Characteristics**

(i) **Type.** The PMV (HA) should be a wheeled, 4x4 drive mode vehicle with automatic transmission.

(ii) **Seating Capacity.** The PMV (HA) should facilitate carriage of minimum 10 personnel excluding driver and co-driver (all with combat loads not less than 30 kgs).

(iii) **Power to Weight Ratio.** Not less than 27 HP/Ton with payload of 02 Ton.

(iv) **Ground Clearance.** Should have minimum 350mm Ground Clearance.

(v) **Kerb Weight.** Not more than 14 Ton.

(b) **Operational Characteristics.**

(i) **Ballistic Protection.** Should have minimum STANAG Level II(b) for KE threat and protection from Grenade and Mine blast.

(ii) **Payload Capacity.** Not less than 02 Ton.

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- (iii) **Maximum Speed.** Not less than 80 Kms/hr on road and 40 Kms/hr in cross country.
- (iv) **Operating Temperature.** The PMV (HA) should optimally function within an operating temperature as under:-
 - (aa) **Max** 40°C or as actuals in deployment locations.
 - (ab) **Min** (-) 15°C.
- (v) **Stowage.** Should have a stowage for 18 belt boxes of 7.62mm LMG.
- (vi) **Weapon Mount.** Should have a detachable mount for 7.62mm LMG.
- (vii) **Turret.** PMV (HA) should have 360 degree rotation turret on roof for 7.62mm LMG.
- (viii) **Firing Ports.** PMV (HA) should have minimum 11 firing ports as under:-
 - (aa) Starboard Side - 05.
 - (ab) Port Side - 05.
 - (ac) Rear Side - 01.
- (ix) **Fording Capability.** Should be capable of fording across a water body of depth minimum 1000mm without any preparation.
- (x) **Operating Altitude.** Should be able to operate optimally at an altitude upto **17000 feet** with full payload of 02 Ton.
- (xi) **Heating, Ventilation and Air Conditioning (HVAC).** Should have inbuilt HVAC system.

4. Tentative date of issue of RFP is Nov 2022. The approximate quantity that are to be procured is 500. The approximate quantity of PMV (HA) that can be delivered by OEMs/vendors within **12 months** from the date of signing of contract and thereafter every 12 months should be clearly mentioned in the response.

5. The parameters/broad specifications of the item are mentioned in the questionnaire attached as per **Appendix 'A'**. The vendors are required to respond to the same.

6. Vendors should confirm that following conditions are acceptable:-

(a) The solicitation of offers will be as per 'Single Stage-Two Bid System'. It would imply that a 'Request for Proposal' would be issued soliciting the technical and commercial offers together, but in two separate sealed envelopes. The validity of commercial offers would be at least 18 months from the date of submitting of offers.

(b) The technical offers would be evaluated by a Technical Evaluation Committee (TEC) to check its compliance with RFP.

(c) **The equipment of all TEC cleared vendors will be put through a trial evaluation in High Altitude Area (above 17,000ft) & Plains in India on a 'No Cost No Commitment' basis within 06-09 months of issue of RFP.** A staff evaluation would be carried out by SHQ to analyze the result of field evaluation and shortlist the equipment for introduction into service.

(d) Amongst the vendors cleared by GS evaluation, a Contract Negotiation Committee would decide the lowest cost bidder (L1) and conclude the appropriate contract.

(e) Vendor would be bound to provide product support for time period specified in the RFP which includes spares and maintenance tools/jigs/fixtures for field and component level repairs.

(f) The vendor would be required to accept the general conditions of contract given in the Standard Contract Document at Chapter VI of DAP-2020 placed on www.mod.nic.in.

(g) **Integrity Pact.** An integrity pact along with appropriate IPBG is a mandatory requirement in the instant case (**Refer Annexure I to Appendix M of Schedule I of DAP 2020**).

(h) **Performance-cum-Warranty Bond.** Performance-cum-Warranty Bond both equal to 3% value of the contract inclusive of taxes and duties **or as amended from time to time** is required to be submitted after signing of contract.

**PART II : GUIDELINES FOR FRAMING CRITERIA FOR VENDOR SELECTION/
PRE-QUALIFICATION IN 'BUY (INDIAN-IDDMM)' BUY (INDIAN)' AND
'BUY & MAKE (INDIAN)' CASES**

7. **Part II.** Guidelines for Framing Criteria for Vendor Selection / Pre-Qualification in Buy India (IDDMM), Buy (Indian) and Buy & Make (Indian) Cases is given at **Appendix 'B'**.

PART III: PROCEDURE FOR RESPONSE

8. The Indian Army is planning to procure PMV (HA) with the view to identify probable vendors who can undertake the said project; OEMs/Authorized Vendors are requested to forward information on the product which they can offer. The parameters / broad specifications of the item are mentioned in the questionnaire attached. In addition, the vendors are required to furnish details as per Performa at **Appendix 'C'**.

9. Apart from filling the information about company, details about the exact product meeting other generic technical specifications should also be carefully filled. As per the Appendix, the vendors should also forward technical details/product brochures/literature, etc, pertaining to the equipment.

10. The Government of India invites responses to this request only from the Original Equipment Manufacturer (OEM)/Authorised Vendors/Government Sponsored Export Agencies (applicable in the case of countries where domestic laws do not permit direct export by OEMs). The end user of the equipment is the Indian Armed Forces (Indian Army).

11. This information is being issued with no financial commitment and the Ministry of Defence reserves the right to change or vary any part thereof at any stage. The Government of India also reserves the right to withdraw it should it be so necessary at any stage. The vendor should provide disclaimer on commitment to procure the equipment. The acquisition process would be carried out under the provisions of DAP-2020.

12. An interaction with all desirous vendors has been scheduled on 26 May 2022 at 1100hrs at Sena Bhawan, New Delhi. All vendors desirous of attending the 'Vendor Interaction' are required to furnish requisite documents as per **Appendix 'D'** to Infantry Directorate/Infantry-5 as per the address given below by 20 May 2022 for obtaining necessary security clearance well in advance.

13. The required information / details may please be forwarded at the following addresses by 21 Jun 2022.

Directorate General of Infantry / Infantry-5
General Staff Branch
Room No 408B, 'D1' Wing, Sena Bhawan
Integrated HQ of MoD (Army)
DHQ PO, New Delhi – 110011
(Fax - 011-230183898)

Directorate General of Capability Development (CD-13/14)
General Staff Branch
Room No 411, 'A' Wing, Sena Bhawan
Integrated HQ of MoD (Army)
DHQ PO, New Delhi – 110011
(Fax - 011-23793274)

Army Design Bureau (GSQR Cell)
General Staff Branch
Room No 16, 'C' Wing, Sena Bhawan
Integrated HQ of MoD (Army) DHQ PO, New Delhi - 110011

ADG Acquisition Technical (Army)
Room No 28, D-II Wing, Sena Bhawan
Ministry of Defence
New Delhi – 110011
(Fax : 011-23792414)

Directorate General of Capability Development (RFP Cell)
General Staff Branch
Room No 436, Sena Bhawan
Integrated HQ of MoD (Army)
DHQ PO, New Delhi – 110011

14. An early response is requested.

RFI QUESTIONNAIRE1. **Operational Aspects of the Protected Mobility Vehicle (PMV) for High Altitude (HA)**

<u>Ser No</u>	<u>Specification Required</u>	<u>Response</u>
(a)	<u>Type.</u> Is the Protected Mobility Vehicle (PMV) for High Altitude (HA) a wheeled vehicle with 4x4 drive mode?	
(b)	<u>Weight.</u> (i) What is the kerb weight of the PMV (HA)? (ii) What is the payload capacity of the PMV (HA)? (iii) What is the gross weight of the PMV (HA)?	
(c)	<u>Seating Capacity.</u> (i) What is the total seating capacity of the PMV (HA)? (ii) What is the total number of crew required for operating the PMV (HA)?	
(d)	<u>Dimension.</u> What is the overall dimension of the PMV (HA)? Give Length x Width x Height in millimeter (mm).	
(e)	<u>Ballistic Protection.</u> (i) Does the PMV (HA) has inbuilt ballistic protection? If yes, specify level of ballistic protection and furnish appropriate certificates from accredited laboratories regarding the ballistic protection provided in the vehicles. (ii) Is the ballistic protection inbuilt into both the opaque and the transparent surfaces of the PMV (HA)? (iii) Which all sides (front, rear, both sides, top and bottom) of the PMV (HA) are ballistic protected? (iv) How many Bullet Resistant (BR) Glass provided with PMV (HA)? Give approx. size and number of BR glasses.	

<u>Ser No</u>	<u>Specification Required</u>	<u>Response</u>
(f)	<p><u>Range.</u></p> <p>(i) What is the maximum operating range of the PMV (HA)?</p> <p>(ii) Does the operating range vary with increase in the operating altitude? If yes, what will the maximum operating range at an altitude of 17,000ft for PMV (HA)?</p>	
(g)	<p><u>Maneuverability.</u></p> <p>(i) <u>Speed.</u></p> <p>(aa) What is the maximum speed of the PMV (HA) while moving on near horizontal surfaces? Mention separately for hard soil terrain, desert terrain, marshy terrain and snow bound terrains (with snow height of minimum 01ft).</p> <p>(ab) What is the maximum speed of the PMV (HA) while negotiating water bodies during fording?</p> <p>(ii) <u>Gradient.</u></p> <p>(aa) What is the maximum gradient that the PMV (HA) can negotiate hard soil terrain, desert terrain and snow bound terrains (mention in degrees) (as applicable)?</p> <p>(ab) Will the capability for gradient maneuverability be affected by varied types of terrain conditions? If yes, please furnish details.</p> <p>(iii) <u>Side Slope.</u></p> <p>(aa) What is the maximum side slope gradient that the PMV (HA) can negotiate hard soil terrain, desert terrain and snow bound terrains (mention in degrees)?</p> <p>(ab) Will the capability for side slope gradient maneuverability be affected by varied types of terrain conditions? If yes, please furnish details.</p> <p>(iv) <u>Vertical Step.</u> What is the maximum height of the vertical step that the PMV (HA) can negotiate (mention in meters)?</p> <p>(v) <u>Trench.</u> What is the maximum width of the trench that the PMV (HA) can negotiate (mention in meters)?</p> <p>(vi) <u>Turning Radius.</u> What is the turning radius of the PMV (HA)?</p>	

<u>Ser No</u>	<u>Specification Required</u>	<u>Response</u>
(h)	<u>Operating Altitude.</u> What is the maximum operating altitude of the PMV (HA)?	
(j)	<u>Operating Temperature.</u> (i) What is the maximum and minimum operation temperature of the PMV (HA)? (ii) Can the vehicles operate at ambient temperature upto 40°C?	
(k)	<u>Fording Capability.</u> (i) Can the PMV (HA) carry out fording? If yes, what are the initial preparations required to be carried out for the same? (ii) What is the maximum depth of water at which fording is possible for the vehicles? (iii) What is the maximum speed of water current at which fording can be carried out?	
(l)	<u>Miscellaneous</u> (i) Is there a provision for a gunner's hatch/turret on top of the PMV (HA)? (ii) If yes, is there a facility for a weapon mount for firing the weapon through the gunner's hatch/turret? (iii) Are firing ports available in the body of the PMV (HA) to facilitate firing of weapons from within the vehicle? (iv) If the facilities are not available, can these be provided by the vendor? (v) Does attachment of any accessories in the exterior of the vehicle like spare wheels affect the Centre of gravity of the vehicle in dynamic condition? (vi) What is the field of view of driver, co-driver and the ten crew members? (vii) What is the time required for the vehicle to come into action? (viii) What are the warning arrangements incorporated in the vehicle to ensure safe operation? (ix) What is the mode of operation of doors and hatches of the vehicles? (x) Does it have protection from rain and snow conditions? (xi) Is the requirement of Central Tyre Inflation System (CTIS) or Run Flat System (RFS) or both being incorporated? (xii) Is the requirement of maintenance free battery being incorporated?	

<u>Ser No</u>	<u>Specification Required</u>	<u>Response</u>
(m)	<p><u>Transportability.</u> Can the vehicle be transported by Air, Rail and Road? If yes, specify as under:-</p> <p>(i) Air (type and class of aircraft).</p> <p>(ii) Rail (dimension of rail wagon/flatbed).</p> <p>(iii) Road (dimension of container/trailer including the tonnage required).</p>	
(n)	<p><u>Safety Arrangement.</u> What are the inbuilt safety measures that have been incorporated in the vehicle? Mention separately for both vehicle and passengers.</p>	
(o)	<p><u>Accessories.</u></p> <p>(i) Specify details of all accessories/attachments/associated equipment that are provided with the vehicle.</p> <p>(ii) Will there be a facility to fabricate the vehicles for provision of accessories (brackets/holders/mounts etc.) as per Indian Army requirements?</p>	

2. **Technical Aspects of the Protected Mobility Vehicle (PMV) for High Altitude (HA).**

<u>Ser No</u>	<u>Specification Required</u>	<u>Response</u>
(a)	<p><u>Engine Capacity.</u></p> <p>(i) What is the type of engine and capacity of the PMV (HA) (in HP)?</p> <p>(ii) Is there any de-rating of the engine with increase in altitude? If yes, what is the maximum altitude beyond which the de-rating of the engine commences for PMV (HA)?</p> <p>(iii) What is the percentage of de-rating of engine with corresponding increase in operating altitude per 1000ft?</p> <p>(iv) What is the life of the engine in terms of both engine hours and kilometers?</p> <p>(v) What is the time required for the vehicle to commence operation after ignition?</p>	

<u>Ser No</u>	<u>Specification Required</u>	<u>Response</u>
(b)	<p><u>Power to Weight Ratio.</u></p> <p>(i) What is the Power to Weight ratio of the PMV (HA) with respect to its Gross Vehicle Weight?</p> <p>(ii) What would be the Power to Weight ratio of the PMV (HA) with a minimum payload of two (02) tons?</p>	
(c)	<p><u>Transmission.</u> What type of transmission is available in the PMV (HA)? Is there an automatic transmission in the vehicle?</p>	
(d)	<p><u>Steering.</u> What type of steering facility is available in the PMV (HA)? Is there a power steering in the vehicle? If yes, specify type of power steering.</p>	
(e)	<p><u>Wheeled.</u></p> <p>(i) Is the PMV (HA) a wheeled vehicle? If wheeled, how many wheels are there in the vehicle?</p> <p>(ii) Is the Run Flat System & Central Tyre Inflation System (CTIS) being provided in PMV (HA)?</p>	
(f)	<p><u>Nominal Ground Pressure.</u> What is the Nominal Ground Pressure of the PMV (HA) on a surface?</p>	
(g)	<p><u>Fuel, Oil and Lubricants (FOL).</u></p> <p>(i) What type and grade of FOL is used for operating the PMV (HA)?</p> <p>(ii) Is there any requirement for a special grade of fuel for operating the vehicle in extreme cold conditions?</p> <p>(iii) Are the FOL used in the PMV (HA) commercially available in India?</p> <p>(iv) What are the emission standards being complied by the vehicle?</p> <p>(v) Can Bharat Stage-IV or equivalent compliant engine be provided with the vehicle?</p>	

<u>Ser No</u>	<u>Specification Required</u>	<u>Response</u>
(h)	<p><u>Cold Start System.</u></p> <p>(i) Does the PMV (HA) have a Winter Engine Start System?</p> <p>(ii) Is the Cold Start System integrated within the vehicle or is there any separate arrangement for the same?</p> <p>(iii) What is the temperature at which the Cold Start System is required to be activated to start the vehicle engine?</p> <p>(iv) How much time is required for the Cold Start System to warm up the engine to function optimally in cold conditions?</p>	
(j)	<p><u>Heating, Ventilation and Air Conditioning.</u> Is there a Heating, Ventilation and Air Conditioning facility inbuilt in the PMV (HA)?</p>	
(k)	<p>(i) Has the OEM/Vendor operated the PMV (HA) to verify its performance at different altitudes and temperatures? If yes, specify the temperatures and altitudes of the locations where the vehicle has been operated and indicate the range and endurance achieved?</p> <p>(ii) Has the vehicle been operated in high salinity areas/terrains (for e.g. coastal areas, creek areas etc.)? If yes, are there any special maintenance schedules required for operation in such areas?</p>	
(l)	<p><u>Display.</u> What type of display (Manual/Digital) is available in the driver's console of PMV (HA)?</p>	
(m)	<p><u>Software.</u> Is there any software in the system? If yes, then answer the following:-</p> <p>(i) Does the system have an Indigenous software?</p> <p>(ii) How is the software security being assured by vendor and what are the debugging procedures?</p> <p>(iii) What is the methodology for carrying out Quality Assurance of software?</p> <p>(iv) Is the software upgradable? If so, will the vendor provide free software upgrades as and when available? Whether open paper licence is available or not?</p> <p>(v) Is adequate security available in the software package or is it still vulnerable to viruses and/or hacking?</p> <p>(vi) Can the software be restored in field in case of any fault?</p>	

<u>Ser No</u>	<u>Specification Required</u>	<u>Response</u>
(n)	Artificial Intelligence. Is there any artificial Intelligence incorporated in the PMV (HA)? If yes, what kind of Artificial Intelligence has be incorporated in the system? Give details.	
(o)	Industry Standards. Does the system complies to industry standards as under :- (i) ISO 9001 2008/2015. (ii) ISO 2000 for service mgt. (iii) ISO 27000 for Information Security. (iv) AS:9100 certification which is the latest international Quality Management System standard for the Aviation, space and Defense (AS&D) Industry, created by the IAG.	

3. **Maintenance and Ergonomics Aspects of the Protected Mobility Vehicle (PMV) for High Altitude (HA).**

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>
(a)	Engineering Support Package (ESP). (i) What is your MRO (Maintenance, Repair and Overhaul) philosophy? Please provide a brief on your MRO philosophy, aligned to following levels of repairs (Refer Appendix B of Schedule I to Chapter II of Defence Procurement Procedure (DAP 2020):- (aa) Unit (Organizational 1 (01)) Level. Repairs carried out in the Unit holding the equipment, involving replacement of minor components/subassemblies, which do not require any Special Maintenance Tools (SMTs). (ab) Field (Organizational 2 (02) Level. Repairs by a field workshop, involving replacement of components/major subassemblies, which may require Special maintenance Tools (SMTs) supported by diagnostics using Special Test Equipment (STEs)/Test Jigs/Built In Test Equipment (BITE) facility.	

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>
	<p>(ii) Will you be providing 'Engineering Support Package' (ESP) for lifetime sustenance of equipment for various echelons of repairs to include the following:-</p> <ul style="list-style-type: none"> (aa) Special Maintenance Tools/Special Test Equipment (SMTs/STEs)/Test Jigs/Inspection Gauges. <ul style="list-style-type: none"> (aaa) Special Maintenance Tools (SMTs) for maintenance and repair related tasks. (aab) Special Test Equipments (STEs)/Test Jigs for diagnostics to support maintenance and repair tasks. (aac) Inspection gauges to check serviceability standards/tolerances. (ab) Spares, to include subassemblies as well as spares for Component Level Repairs (CLR). (ac) Technical literature to include Illustrated Spare Part List (ISPL) and manuals covering all aspects related to operation, maintenance, diagnostics and repairs at various echelons. (ad) Training aggregates/aids for training of operator, quality assurance and maintenance personnel. (ae) Inspection standards to ascertain serviceability of equipment as well as its modules/comments. <p>(iii) What Class of Interactive Electronic Technical Manual (IETM) will be provided by you for technical literature mentioned above? (if available)</p> <p>(iv) Have you developed a class room trainer and a Computer Based Training (CBT) package for training?</p> <p>(v) Is there a requirement of periodic calibration of any Special Maintenance Tool/Special Test Equipments (SMTs/STEs)/ Gauges? If yes, will you provide capability to undertake calibration, as part of Engineering Support Package?</p> <p>(vi) What is the period for which you commit the product support for sustenance of equipment in terms of supply of spares/AMC/calibration etc.</p> <p>(vii) How many sub vendors are involved in manufacturing of product? Is product support from all sub vendors also assured for the same period, as committed by you?</p> <p>(viii) What is the engineering support package being offered?</p> <p>(ix) Will the ESP be provided by the OEM itself or will it be outsourced from sub-vendors?</p>	

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>
(b)	<p><u>Repair & Maintenance.</u></p> <p>(i) What is the provision for repair and maintenance of PMV (HA)?</p> <p>(ii) If the system is required to be routed back to the vendor for repairs, then what would be the total down time for such systems (including transportation to earmarked collection points)?</p> <p>(iii) Does the vendor have major repair and overhaul facility for major assemblies and component level repair?</p> <p>(iv) What is the kind of Component Level Repairs being offered by the vendor?</p> <p>(v) What are the levels of repair? Does it have Operator Level, Field Level and Base Level Repairs? Also, specify the scope of repairs at each level.</p> <p>(vi) Is any major infrastructure facility required at Field level to repair/replace the components? If yes, mention the facilities required for the same.</p> <p>(vii) Give inputs on aspect related to such as time between overhauls / repairs, life time maintenance & spares support, Obsolescence Management support etc.</p> <p>(viii) What is the repair & maintenance philosophy of the OEM to include periodicity of midlife interventions, intent towards establishment of maintenance hubs etc?</p>	
(c)	<p><u>Equipment Specific Inputs.</u></p> <p>(i) Is the equipment modular in construction to facilitate repairs in field by replacing defective module? What is the Mean Time to Repair (MTTR) for repairs through replacement?</p> <p>(ii) What is Mean Time Between Failure (MTBF) for equipment and its main assemblies?</p> <p>(iii) What is the expected life of your equipment and main assemblies like engine, txn, gear box, axles & rotatables like alternator, compressor, self-starter etc. (as applicable) in terms of usage?</p> <p>(iv) Does your equipment have Built In Test Equipment (BITE) to support diagnostics and repair through modular replacement? If yes, what are the types of BITE facilities and up to what levels are these facilities being provided with the system (module/sub-assembly)?</p>	

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>
	(v) Does your equipment or any of its sub system have counter to display cumulative usage to facilitate usage based preventive/periodic maintenance? (vi) Can you provide Indian origin generators and batteries with your equipment where applicable? (vii) Will you be providing details of Indian equivalents of oils & lubricants used with your equipment?	
(d)	<u>Product Support.</u> (i) What kind of 'Product Support' will you ensure for PMV (HA)? What will be the 'Time Period'? (ii) What life time product support can be provided with PMV (HA)?	
(e)	<u>Service Life.</u> What is the likely 'Service Life' of PMV (HA)?	
(f)	<u>Shelf Life.</u> What is the likely 'Shelf Life' of PMV (HA)?	
(g)	<u>Annual Maintenance Contract.</u> What type of AMC will be provided by the vendor for PMV (HA) and for what duration?	
(h)	<u>Quality Assurance.</u> What are the Quality Assurance Procedures adopted by each OEM/Vendor for environmental and functional checks?	
(j)	<u>Warranty.</u> What is the warranty being offered on the PMV (HA)?	
(k)	<u>Anti-Corrosion Measures.</u> What anti-corrosion/anti-rust measures (e.g anti-corrosion paint) have been incorporated in the PMV (HA) for protection during employment in high salinity/high humidity conditions?	
(l)	<u>Spares.</u> (i) Give details of vendors, sub vendors especially those with establishments in India as also readiness/Lead time towards spares provisioning. (ii) What should be the philosophy for management of repairs and spares post contract? (iii) Does the OEM / vendor has base overhaul facilities and availability of Infrastructure for the same in India?	

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>
(m)	<u>Product Support for Codification.</u> (i) Is the system / equipment codified? If yes, give details? (ii) Vendor / OEM has to give 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 Standardisation in a time bound manner.	
(n)	What is the maximum number of personnel required to repair any assembly of vehicle?	
(o)	Is there any difficulty in accessibility of any component/assembly of the vehicle for fitment and removal?	
(p)	Will the vendor be able to provide Sectionised/Cut models for training?	

4. **Training Aspects of the Protected Mobility Vehicle (PMV) for High Altitude (HA).**

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>
(a)	What are the training facilities available at the OEM/Vendor premises to conduct training of the Crew, Maintenance and DGQA personnel?	
(b)	How will the vendor assist/facilitate conduct of training for User, DGQA and Maintenance personnel in India and for what duration?	
(c)	Is there any skill set desired for the trainee?	
(d)	Is there any need for a special infrastructure required for the training? Confirm whether Simulators/Training Aids for the equipment are available and can be provided by the vendor.	
(e)	Will the vendor be able to provide Computer Based Training packages, soft copies of User Handbook and Training Manuals and IETMs for the training and what are the likely costs of each?	
(f)	What type of user and technical description manuals likely to be provided and what are the likely costs of each?	

5. **Commercial Aspects of the Protected Mobility Vehicle (PMV) for High Altitude (HA).**

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>
(a)	Is the vendor an OEM for the vehicle? If no, then does a MoU for licensed production exist between the OEM and the Indian vendor?	
(b)	<p><u>Indigenous Content.</u></p> <p>(i) Is the equipment to be provided produced indigenously by the vendor?</p> <p>(ii) If yes, does this product meet the requirement of minimum 50% indigenous content on cost basis?</p> <p>(iii) Is the equipment Indigenously Designed, Developed and Manufactured (IDDM) by the vendor?</p> <p>(iv) Does the vendor hold IPR/patent for the sub systems of the PMV (HA)?</p>	
(c)	<p><u>Cost of Protected Mobility Vehicle (PMV) for High Altitude Area (HA).</u></p> <p>(i) What is the indicative price of one PMV (HA) being offered (price in INR)? Also give breakdown of cost in parts and also include taxes and custom duties (if applicable).</p> <p>(ii) What is the indicative price of each major component and accessories of the PMV (HA) being offered (price in INR)? Mention the indicative prices separately for each component and accessory.</p>	
(d)	<u>Cost of ESP.</u> What would be the tentative cost for the Engineering Support Package being offered by the OEM/Vendor?	
(e)	<u>Cost of AMC.</u> What would be the tentative cost of AMC being offered by the OEM/Vendor?	
(f)	<u>Cost of Training.</u> What would be tentative cost of Training on the equipment?	
(g)	<u>Categorisation.</u> What in the preferred categorization for supply of this equipment to Indian Army? Refer guidelines for training criteria for vendor selection / prequalification in Buy (Indian-IDDM), Buy (Indian) and Buy & Make (Indian) cases given at Annexure IV to Appendix 'A' of DAP-2020. Also refer Appendix B to this RFI.	
(h)	<u>Quantity.</u> How many PMV (HA) that can be delivered by OEMs/vendors within 12 months from the date of signing of contract and thereafter every 12 months? Specify clearly in the response.	

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>
(j)	<u>Transfer of Technology (ToT).</u>	
(i)	Is the OEM/vendor willing to provide ToT alongwith critical technologies (depth and range to be quantified)?	
(ii)	What is the minimum quantity required to be procured for the OEM/vendor to offer ToT?	
(iii)	If ToT offered, what is the time frame and other qualifying terms and conditions for implementation of ToT?	
(iv)	Are there any Production Agencies in India with which there is an existing/finalized tie-up by a foreign vendor for ToT?	

6. **Miscellaneous Aspects of the Protected Mobility Vehicle (PMV) for High Altitude (HA).**

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>
(a)	Is the prototype readily available or has to be designed / manufactured? If available, please provide complete operational and technical specification of the same.	
(b)	What will be the time penalty for the mandatory and other features sought by the Indian Army to be incorporated in your equipment?	
(c)	If the equipment is to be fielded within 06 months/09 months, what level of technology (or type of prototype) would be made available?	
(d)	What is the likely time period required by the vendor to field the prototypes for trials post issue of RFP? This date should factor in time for clearance, transportation etc.	
(e)	Is the OEM/Vendor willing to participate in trials as per DAP-2020 in India on 'NCNC' basis?	
(f)	What maximum equipment quantity can be made available in India for trial on 'NCNC' basis?	
(g)	What is the suitability of vehicles for deployment in various types of terrain in India? Specify separately for deserts, plains, mountainous, high altitude area and marshy terrains.	
(h)	What is the likely time and clearances required for import of equipment for trials in India post receipt of End User Certificate (EUC)?	

<u>Ser No</u>	<u>Aspect / Parameter</u>	<u>Response</u>					
(j)	Will the OEM/vendor provide adequate crew for operating the vehicle during the NCNC trials?						
(k)	What all certificates from accredited laboratories can be provided by the OEM/vendor to substantiate the claims for meeting the Operational Parameters and Broad Technical Parameters as given at Part I of the RFI? Specify separately for each parameter and attach copies of the same.						
(l)	<p><u>For Trials.</u> What are the parameters which should be accepted on following :-</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">(i) Vendor certification.</td> <td rowspan="3" style="font-size: 3em; vertical-align: middle;">}</td> <td rowspan="3" style="vertical-align: middle;">Give out parameters under each subhead.</td> </tr> <tr> <td>(ii) Certification by accredited labs.</td> </tr> <tr> <td>(iii) Trials by simulation.</td> </tr> </table>	(i) Vendor certification.	}	Give out parameters under each subhead.	(ii) Certification by accredited labs.	(iii) Trials by simulation.	
(i) Vendor certification.	}	Give out parameters under each subhead.					
(ii) Certification by accredited labs.							
(iii) Trials by simulation.							
(m)	<u>Fire Fighting System.</u> What kind/type of Fire Fighting System is provided for Engine Compartment, Driver and Co-Driver, Stick (crew) Compartment for Save Own Souls (SoS) and to extinguish outside fire?						
(n)	Is the vendor capable of delivery at Buyer premises?						
(o)	How long (in days/ months) will the vendor take to deposit the equipment for trails on intimation by the buyer post successful clearance of TEC”.						

CRITERIA FOR VENDOR SELECTION / PREQUALIFICATION

1. Is the applicant Entity an Indian Company Act 2013?
2. Has the Applicant Entity or any of its allied entities ever been banned or suspended by MoD /SHQ of any Government Department or Organisation? Details of vigilance action viz ongoing investigations by any Department/agency of Central Government may be provided.
3. Is the Applicant Entity a Manufacturing Entity or System Integrator or a Trading Company?
4. Does your Company have any previous experience/expertise in this field? Specify the field of expertise/ experience of your company and duration of experience in years.
5. Specify the turnover and net worth of your Company in the last three (03) years.
6. Is your Company under insolvency resolution as per Indian Bankruptcy Code?
7. What is the Credit Rating of your Company equivalent to CRISIL rating?
8. Does your Company qualify under Start Up or MSME Category?

INFORMATION PROFORMA (INDIAN VENDORS)**1. Name of the Vendor/Company/Firm.**

(Company profile including Share Holding pattern, in brief, to be attached)

2. Type (Tick the relevant category).

Original Equipment Manufacturer (OEM)	Yes/No
Authorised Vendor of foreign OEM	Yes/No (attach details, if yes)
Others (give specific details)	

3. Contact Details.**Postal Address:**

City: _____ **State / Province:** _____

Country: _____ **Pin / Zip Code:** _____

Tele: _____ **Fax:** _____

URL/Web Site: _____

Email : _____
4. Local Branch/ Liaison Office / Authorized Representatives in India (if any).
Name & Address: _____

City: _____ **Province / State:** _____

Pin code _____ **Tele:** _____ **Fax:** _____

Email : _____

5. **Financial Details.**

- (a) Category of Industry (Large/Medium/Small Scale) : _____
- (b) Annual turnover : _____ (in INR)
- (c) Number of employees in firm : _____
- (d) Details of manufacturing infrastructure available: _____
- (e) Earlier contracts with Indian Ministry of Defence/ Government agencies :

<u>Contract Number</u>	<u>Equipment</u>	<u>Quantity</u>	<u>Cost</u>

6. **Certification by Quality Assurance Organization.**

<u>Name of Agency</u>	<u>Certification</u>	<u>Applicable from (Date & Year)</u>	<u>Valid till (Date & Year)</u>

7. **Details of Registration.**

<u>Agency</u>	<u>Registration No</u>	<u>Validity (Date)</u>	<u>Equipment</u>
GeM			
DGQA/DGAQA			
OFB			
DRDO			
Any other Government Agency			

8. **Membership of FICCI/ASSOCHAM/CII or other Industrial Association.**

Name of Organization

Membership Number

9. **Equipment/ Product Profile (to be submitted for each product separately).**

- (a) Name of Product : _____

(IDDM Capability be indicated against the product)
(Should be given category wise)

(b) Description (attach technical literature) :- _____

(c) Whether OEM or Integrator : _____

(d) Name and address of Foreign collaborator (if any) : _____

(e) Industrial Licence Number : _____

(Specifically mention the items for which DIL has been accorded)

(f) If Industrial Licence for the production of the equipment not held, has the vendor applied for the same? If yes, specify the details of the application and when is it likely to be granted?

(g) Indigenous component of the product (in percentage) _____

(h) Details of Foreign Exchange (FE) content (in percentage)

(j) Status (in service/design development state): _____. If the equipment is in design & development state, how much time will the vendor take to start production?

(k) What are the applicable key technologies and materials required for manufacturing of the equipment / system / platform and the extent of their availability or accessibility in case they are not available in India?

(l) What are the critical technologies which the vendor has taken from their global partners, if any? Details of the foreign partner may please be specified.

(m) Does the vendor have the capability to design, development, manufacture, test and integrate the system?

(n) Is the complete set of the design and production drawing and source code for all software applications/program of the equipment available with the vendor? If yes, can they be produced for verification as and when required?

(o) Production capacity per annum: _____. Is the production capability likely to increase?

(p) In case the equipment is to be produced/integrated indigenously, how much time will the vendor take to start production?

(q) What is the recommended 'Delivery Schedule' for Protected Mobility Vehicle (PMV) High Altitude (HA)?

(r) Countries/ agencies where equipments supplied earlier (give details of quantity supplied):

(s) Estimated price of the equipment, including cost wise break up of components.

10. Alternative for meeting the objectives of the equipment set forth in the RFI.
11. What INCOTERMS 2020 are suitable / preferred by the vendor and for what reasons?
12. In view of the vendor, what should be the preferred categorization (as per Chapter I of DAP-2020) for the procurement of the product by Indian Army?
13. Any other relevant information: _____
14. **Declaration**. It is certified that the above information is true and any changes will be intimated at the earliest.

(Authorised Signatory)

INFORMATION PROFORMA (FOREIGN VENDORS)

1. **Name of the Vendor/Company/Firm.**

(Company profile in brief, to be attached)

2. **Type (Tick the relevant category).**

Original Equipment Manufacturer (OEM) - Yes/No _____

Government sponsored Export Agency - Yes/No (Details of registration to be provided)

Authorized Vendor of OEM - Yes/No (attach details)

Others (give specific details) _____

3. **Contact Details.**

Postal Address:

City: _____ **State / Province:** _____

Country: _____ **Pin/Zip Code:** _____

Tele: _____ **Fax:** _____

URL/Web Site: _____

Email : _____

4. **Local Branch/ Liaison Office/Authorised Representative, in India (if any).**

Name & Address: _____

City: _____ **State:** _____

Pin code _____ **Tele:** _____ **Fax:** _____

Email : _____

5. **Financial Details.**

- (a) Annual turnover : _____ (in USD)
- (b) Number of Employees in firm _____
- (c) Details of manufacturing infrastructure available _____
- (d) Earlier contracts with Indian Ministry of Defence / Government agencies :

<u>Contract Number</u>	<u>Quantity</u>	<u>Cost</u>

6. **Certification by Quality Assurance Organization (if applicable).**

Name of Agency	Certification	Applicable from (Date & Year)	Valid till (Date & Year)

7. **Equipment/ Product Profile (to be submitted for each product separately).**

- (a) Name of Product : _____
(Should be given category wise)
- (b) Description (attach technical literature) :- _____
- (c) Whether OEM or Integrator : _____
- (d) Does the vendor have any Indian manufacturing partner? If yes, specify details. If no, is the foreign OEM/vendor willing to enter into JV with Indian private industry/DPSU? _____
- (e) What are the critical technologies which the vendor has taken from their global partners, if any?
- (f) Does the vendor have the capability to design, develop, manufacture, test and integrate the system?
- (g) Is the OEM/vendor willing to offer licensed production in India?

- (h) Status (in service/Design development stage): _____. If the equipment is in design & development state, how much time will the vendor take to start production? _____

(j) Production capacity per annum: _____. Is the production capability likely to increase? _____

(k) In case the equipment is to be produced / integrated indigenously, how much time will the vendor take to start production?

(l) What is the recommended 'Delivery Schedule' for Protected Mobility Vehicle (PMV) High Altitude (HA)?

(m) Countries where equipment is in service: _____

(m) Have the OEM/Vendor supplied the equipment to any other country? If yes, furnish details of the quantity supplied and year of supply.

(n) Whether export clearance is required from respective Government:

(o) Any collaboration/joint venture/co-production/authorized dealer with Indian Industry (give details):

Name & Address _____

Tele: _____ Fax: _____

Email : _____

(p) Estimated price of the equipment _____

(q) What are the enhanced parameters/specifications that can be provided by the OEM/Vendor?

8. What INCOTERMS 2020 are suitable / preferred by the vendor and for what reasons?

9. What is the preferred mode of shipment of goods – rail, road, sea, air or combination?

10. Does the transportation system in the OEM/Vendor country and its connectivity to India require trans-shipment of goods?

11. Alternatives for meeting the objectives of the equipment set forth in the RFI.

12. Any other relevant information: _____

13. **Declaration.** It is certified that the above information is true and any changes will be intimated at the earliest.

(Authorised Signatory)

Appendix DPARTICULARS FOR SECURITY CLEARANCE IN RESPECT OF INDIAN AGENT / REPRESENTATIVE OF INDIAN FIRMS / VENDORS

1. Name :
2. Official /residential address :
3. Date of employment and appointment :
4. Brief nature of job :
5. In case know / related to any person :
serving in Defence Service
 - (a) Details person :-
 - (i) Father's Name :
 - (ii) Date of Birth :
 - (iii) Nationality :
 - (iv) Passport No :
 - (b) Permanent Address :
 - (c) Present Address :
6. In case of ex-service-men following additional details may be provided.
 - (a) Rank & Arm /Service :
 - (b) Appointment last held :
 - (c) Date of retirement :
7. In case of retirement from service
 - (a) Details of his business entity :
(i.e whether Group) Private Limited
Company Ltd.
 - (b) Since when established :
 - (c) Registered address of the company :
 - (d) Name and address of Director :
8. Weather the individual has paid income tax :
9. PAN No :
10. Name, Account No address of Bankers :
within and outsides the country.
11. Attested photocopies of agreement, :
Including supplementary agreements covering
Appointment as representative and items relate
there to.
12. Concurrence of the officer being visited :
that presence of representative/agents during
meeting/presentation/trials is inescapable.

PARTICULARS FOR SECURITY CLEARANCE (FOREIGN)

1. Particulars of the Representative of Foreign Firms and their Local Agents.

(a)

Ser No	Name & Appointment	Nationality	Details of Passport and Visa	Place of issue	Validity Period & date of issue

(b)

Ser No	Particular of the firm	Status of reps/agents	Address in foreign country and address in India	Whether previously visited India, if so, give date and place of visit

2.

Details of Branch/Offices in India :-

- (a) Name of firm/Subsidiary. :
- (b) Place and Address. :
- (c) Name and appointment of head of firm/ Subsidiary. :
- (d) Tele, Fax No and E Mail.

3. Particulars of employees (Indian including ex-servicemen).

- (a) Name :
- (b) Appointment :
- (c) Official/residential address :
- (d) Contract point (Tele, Fax and E Mail) :
- (e) Brief nature of job :
- (f) In case related to any personnel Serving in Def Service. :

Details of personnel related to and his appointment.

- (g) In case of ex-serviceman following additional details be provided:-
- (i) Rank and Arm/Service. :
- (ii) Appointment last held :
- (iii) Date of retirement :
- (iv) Date of employment with the firm :
- (v) If related to any personnel serving in Def Service (Details of serving personnel and his present appointment) :
- (h) Name and appointment of head of firm/subsidiary :
- (j) Tele, Fax No and E Mail

**PARTICULARS FOR SECURITY CLEARANCE IN RESPECT OF INDIAN AGENT /
REPRESENTATIVE OF INDIAN FIRMS / VENDORS**

1. Name :
2. Official /residential address :
3. Date of employment and appointment :
4. Brief nature of job :
5. In case know / related to any person serving:
in Defence Service
 - (a) Details person :-
 - (i) Father's Name :
 - (ii) Date of Birth :
 - (iii) Nationality :
 - (iv) Passport No :
 - (b) Permanent Address :
 - (c) Present Address :
6. In case of ex-service-men following additional details may be provided.
 - (a) Rank & Arm /Service :
 - (b) Appointment last held :
 - (c) Date of retirement :
7. In case of retirement from service
 - (a) Details of his business entity :
(i.e whether Group) Private Limited
Company Ltd.
 - (b) Since when established :
 - (c) Registered address of the company :
 - (d) Name and address of Director :
8. Weather the individual has paid income tax :
9. PAN No :
10. Name, Account No address of Bankers :
within and outsides the country.
11. Attested photocopies of agreement, Including :
supplementary agreements covering Appointment as
representative and items relate there to.
12. Concurrence of the officer being visited :
that presence of representative/agents during
meeting/presentation/trials is inescapable.