Scope of work for Assembly and Integration of BRSV

Date: 08.09.2026

LF No: 2101785847

Scope of OCF Avadi:

- Will provide Mahindra Scorpio N OEM vehicle.
- Will provide Para Aramid Floor mat for blast protection.

Scope of Fabricator:

- The vehicle shall meet all the dimensional and functional parameters mentioned below and the reference images of Armoured vehicle is enclosed for reference.
- Armouring shall be done at the premises of OCF Avadi

Technical Specification:

S. No.	PARTICULARS	SPECIFICATIONS
1	General	Vehicle should be a light vehicle (4x4). The additional protection material be fitted on the body as add on which do not hinder with the seating/functioning of the occupants.
2	Internal fitment	Vehicle should have adequate space for internal fitment and storage.
3	Crew	Driver + 4 fully equipped soldiers. Note:- Seats to be folding type to enable carriage of stores if required. Seat belt to be catered for troops, driver and co- drivers.
4	Load carrying capacity	Minimum 500 kgs.
5	Range of operation	(a) In plains - 300 to 350 kms.
		(b) in mountain - 250 to 300 kms.
6	Speed	(a) On Road: Not less than 80 kmph with full load.
		(b) X Country: Not less than 40 kmph with full load.
7	Protection level to be provided to the vehicle	(a) Top. With stand direct hit of 7.62 x 51 mm Ball, 5.56 x 45 mm and 7.62 x 39 mm at a distance of 10M at an angle 45°
		(b) All sides. With stand, direct hit of 7.62 x 51 mm Ball, 5.56 x 45 mm and 7.62 x 39 mm at a distance of 10M at 90 degree angle of attack.
		(c) Bottom Under Carriage. Passengers/ occupants should be protected against blast of hand grenade HE36 or equivalent directly under the vehicle.
		(d) Wheel. Tyres with run flat system be provided which should have run flat capability of minimum 10 kms. the tyres to be replaced with off road tyres.
		(e) Glass, Windshield and Side Glass. Same as per sides.

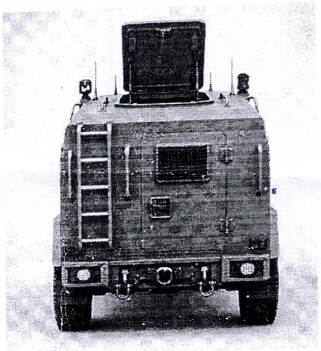
		(f) Door, Windows and Roof Hatch. Two sides doors with windows, one port hole in front left door, two side port holes and one rear port hole to fire personal weapon. Port holes should have shutters. Openable root hatch for firing. Easy opening rear door for quick embussing / debussing. Windows to have similar protection as for the side.
		(g) Fuel Tank. Similar protection levels as for sides and carriage i.e shrapnel protection for fuel tank.
		(h) Radiator. Matching Bullet proof Protection as mentioned in para 7(b) to be catered for.
8	Batteries	Maintenance Free Batteries
9	Fire Extinguisher	Min. 2 Kg pressure ABC type. Fire suppression agents be provided for the fuel assembly.
10	Air conditioner	Air conditioner to meet the following requirements:(a) Final inside temperature; 25 ± 5° C.
		(b) Relative humidity of cooled air 30 to 75%.
		(c) Maximum air speed; 0.5 m/s.
11	Power to Weight Ratio	Ratio should not be less than 24 KW/Ton.
12	Suspension	Front Suspension to be independent. Suspension system and related Infrastructure components like heavy duty struts (Front & Rear) should be reinforced as necessary to compensate for additional weight. Top mounts and bottom mounts should be changed along with 18 mm Hard chromed piston rods or better.
13	Steering	Power Steering to be provided.
14	Turning Radius	Turning radius to be not more than 7 mtrs.
15	Ground Clearance	Min. 220 mm and water fording capability without any preparation of min 500 mm.
16	Operating Temperature	Keeping the employability foam -20° to + 50° C.
17	Pollution	Air and Noise pollution to conform to CPCB/CMVR norms.
18	Dimension of the vehicle	(a) Width - Not more than 2 mtrs.
		(b) Length - Not more than 4.5 mtrs.
		(c) Height - It should be max 2 mtrs.
19	Gross Vehicle Weight	Max. 3500 Kg
20	Inspection of BR Vehicle	(i) Automotive vehicle portion after bullet proofing
		(ii) Armoured Steel
		(iii) Kevlar
		(iv) Bullet Proof Glass
		(v) Proof/Firing Trials

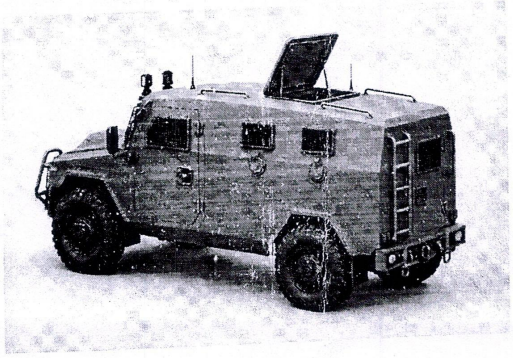
		(vi) Air Conditioner
21	Operation and Maintenance	Should be simple and easy.
22	Complete literature, illustrated diagrams, list of spares, special tools, etc and operating instructions for the operation and maintenance of the vehicle and accessories should be provided.	
23	All reports for the materials used should be provided by the bidder from NABL accredited labs.	

Reference Images:

The following images are for reference purpose only. Exact design will be provided after placing supply order.







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