

ARMORED PERSONNEL CARRIER

UPGRADED MINE PROTECTED VEHICLE 4X4 (BS-III)

Mine protected vehicle (MPV) with enhanced ground explosive and ballistic protection for superior tactical mobility



UPGRADED (4X4) MINE PROTECTED VEHICLE (BS-III) - FRONT LH

आर्मर्ड व्हीकल्स निगम लिमिटेड
वाहन निर्माणी जबलपुर
भारत सरकार का उद्यम
रक्षा मंत्रालय



ARMOURED VEHICLES NIGAM LIMITED
VEHICLE FACTORY JABALPUR
A GOVT. OF INDIA ENTERPRISE
MINISTRY OF DEFENCE
CIN-U35990TN2021GOI145504



UPGRADED (4X4) MINE PROTECTED VEHICLE (BS-III) - FRONT RH

UPGRADED MINE PROTECTED VEHICLE 4X4 (BS-III)

Mine protected vehicle (MPV) with enhanced ground explosive and ballistic protection for superior tactical mobility

Ambushes, land mines and improvised explosive devices (IED) present a significant threat to both troops and vehicles. Moreover, recent advances in anti-tank mines—such as amplified explosive power, shaped charges that increase damage, innovative dispersal systems and sophisticated detonation triggers—have further increased the risks. Superior armor protection, combined with high mobility, is essential for any vehicle entering battle zone. AVNL's MPV 4x4 is a blast-protected, wheeled platform designed to operate effectively in explosive hazardous environments. With enhanced protection technologies, the MPV 4x4 provides the highest levels of safety to both the vehicle and the crew. Built on decades of experience and expertise in military defense technology, AVNL MPV delivers the critical balance between proven survivability and tactical mobility. Suitable for use on a variety of terrains and topographies, the platform can be tailored to meet a broad range of mission requirements, including command and control, combat casualty care, logistics, communications and more.

Advanced armor protection

With a gross vehicle weight (GVW) of 13.17 Tons and a 1.5 Ton payload capacity, the MPV 4x4 offers a superior level of resistance to the effects of mine detonation. Verified by independent testing, the platform can withstand a number of explosives including: 14 kg TNT, which is more than a double anti-tank mine under any wheel; 10 kg TNT, which is almost double anti-tank mine under the hull; an IED side blast of 10 kg TNT. In addition, the MPV 4x4 features rear door and four hatches access, as well as ambush-proof exterior design that is fully repairable after being hit.



UPGRADED MINE PROTECTED VEHICLE 4X4 (BS-III)

Reliable and robust platform components

The MPV 4x4 is constructed V-Shaped MONOCOQUE from field proven components, including a 6-cylinder in line water cooled diesel engine; with 6 forward & 1 reverse manual transmission; transfer case with fully floated with differential lock rear axles and front axles are fully floated pressed type drive axle with steerable ends; semi elliptical multi leaf suspension system; power assistant steering; dual circuit pneumatic type brakes; and off-road tires with run-flat and tire inflating systems. The MPV 4x4 offers a superior interior designs, including comfortable seats for up to 12 crew members, air-conditioning, gun stands and communications racks.

High level of maneuverability for ease of operation

With a road speed of up to 85 km/h at full combat weight and a cross-country speed of up to 50 km/h depending on terrain-the MPV 4x4 can power its way through the toughest landscapes, increasing the probability of mission success. The 4x4 platform provides superior maneuverability in urban areas, narrow roads and off-road terrains than 6x6 platforms.

UPGRADED MINE PROTECTED VEHICLE 4X4 (BS-III)



UPGRADED (4X4) MINE PROTECTED VEHICLE (BS-III) - LH SIDE

TECHNICAL SPECIFICATION

<p>ENGINE</p> <p>Model : HA57L165 No. of Cylinders : 6 Cylinder, Inline. Bore x Stroke : 104 x 113 mm. Displacement : 5759 cc. Max. Power : 165 KW @ 2500 rpm. Torque : 800 Nm @ 1400-1900 rpm. Air Cleaner : Dry Type. Turbocharger : TEL</p> <p>TRANSMISSION</p> <p>Clutch : Single plate diaphragm – Dry. Gear Box : Synchromesh, 6 Forward & 1 Reverse. Aux. Gear Box : Two Speed.</p> <p>AXLE</p> <p>Front : Fully floated pressed type drive axle with Steerable ends. Rear : Fully floated with differential lock.</p> <p>BRAKES</p> <p>Service Brake : Air Brake Dual-line. Parking Brake : Pneumatic release from driver cabin.</p> <p>STEERING : Integral Power Steering (Rane - 20.4:1)</p> <p>SELF RECOVERY WINCH: 10 TON</p>	<p>TYRE : Tubeless tyre of size 13.00" R 22.5" 154K, 18PR</p> <p>ELECTRICAL SYSTEM : 24 V with blackout lights and 120 Amps Alternator.</p> <p>FUEL TANK</p> <p>Capacity : 210 Ltrs.</p> <p>PRINCIPLE PARAMETERS</p> <p>Wheel Base : 3840 mm. Length : 6600 mm. Width : 2800 mm. Height : 3120 mm. Ground Clearance : 305 mm. Turning Circle Diameter : 17.5 Mtrs.</p> <p>PERFORMANCE</p> <p>Acceleration : 0-40 Kmph in 20 Seconds. Max. Speed : 100 Kmph. Patrol Speed : 50 Kmph. Gradiability : 30 deg. Fordability : 1000 mm. Cruising Range : 750 Km. Fuel Efficiency : 3.6 Kmpl @ 50 Kmph.</p> <p>WEIGHTMENT</p> <p>Tare : 11670 Kg. Pay Load : 1500 Kg. Gross Vehicle Weight : 13170 Kg.</p>
--	--

SALIENT DESIGN FEATURES

- The vehicle consists of monocoque hull/body.
- The hull assembly is built of high alloy bullet resisting steel.
- Maximum safety of the crew from ballistic and other forms of attack by virtue of "V" shaped envelop of the body.
- High degree of the safety in respect of collision or vehicle roll over.
- The design provides for ease of replacement of axles or other aggregates in the field.
- Air conditioner 2.84 Ton capacity with heating.
- Power operated rear view mirror.
- Flame sensor – Activates alarm system in case of fire inside.
- Audio visual warning device.
- Turret- 360° revolving to facilitate firing of 7.62 SLR/5.56 LMG.
- Stacking of Armament and Ammunition.
- First Aid Box.
- Arrangement of expunging of gases from Troop Compartment.
- Rear view camera.
- Metallic gun port within the glass.

FOR DETAILS CONTACT

THE GENERAL MANAGER

VEHICLE FACTORY JABALPUR-482009

GRAM: VEHICLE, TEL 0761-2330520-21-22-23-25

FAX: 0761 2330436 & 2330257

Email : vfj@avnvl.co.in



THE CHAIRMAN & MANAGING DIRECTOR

C/o ARMOURED VEHICLES HEADQUARTERS

HVF ROAD, BHAKTAVATSALAPURAM,

AVADI, CHENNAI, TN 600054, INDIA

PHONE No : 044-26383601, 26384784

FAX No : 044-26383653, Email: info@avnvl.co.in