

LAMV

LIGHT ARMoured MULTIPURPOSE VEHICLE





The Light Armoured Multipurpose Vehicle is a 4x4 Attack/Defence vehicle developed and produced by TATA Motors for the Defence Forces. The LAMV can be operated effectively with its modern observation, surveillance and communication equipment. This technological edge, necessary to achieve ascendancy in the tactical battlefield will have the vital operational configuration to address Urban Warfare and engagements on all terrain.

Capacity

LAMV has a 8 Ton GVW with a payload of 1.5 Ton. It can seat four persons including the crew. With a front Engine, ergonomically integrated dash board and equipment panel, enabling a better internal volume.

Mobility

LAMV has an automatic transmission, all wheel independent double wish bone type suspension with air spring and hydraulic damper. It also has self leveling capability with ARB in front and rear, ensuring safety and comfort for the crew during cross country move. The mobility is further enhanced with run flat tyres and CTIS.



Survivability & Protection

The LAMV integrates a monocoque composite material pod to protect the crew, with a full length high hardness steel bottom V Hull for blast protection. The POD is tiltable side wise for better serviceability. It offers maximum survivability in high threat environments due to its ballistic hull design, special armour protection and high mobility. The protection varies from Stanag Level II (a) and b) for blast and Stanag II for Ballistic protection . Side doors located on both sides of the vehicle allows the quick crew entry and exit. It can be equipped with AFDSS based on customer requirements.



Electronics & Communication

The crew in the pod are provided with the Driver and Commander display units, ergonomically integrated on dashboard , and has provisions for integrating Electro Optic System, Radio, iGPS , and driver assistance Camera. It is equipped with state of art ruggedized navigation unit with GPS system and Inertial positioning system in case of unavailability of GPS. The LAMV is also equipped with CCD cameras, Thermal Imagers & Laser Range Finder with detection range upto 10 kms, recognition upto 6 km and identification upto 3.5 kms.

Power

LAMV is capable of achieving a speed of 105kmph and has been configured with a powerful indigenous 210 HP engine with automatic transmission. The engine ensures high power to weight ratio of 25HP/T with a self-recovery winch. Being an indigenous engine it exceedingly satisfies the reliability and maintainability expectations with its low operational cost and easily available service.



Armament

Despite being well protected ,the LAMV is capable of carrying additional equipment like Smoke Grenade Launchers and has a turret with full 360deg azimuth manual movement and ballistic protection for Gunner side and front for NIJ level III.

Logistic Support

LAMV equipped of modern modular design will have the 'stretch potential' to incorporate imperative upgrades and retain functional superiority throughout its service life. Low life cycle cost mainly is due to its indigenization. All the main subsystems share commonality with the standard vehicular aggregates that are there in service. LAMV is backed by TATA Motors Ltd wide network of Global Customer support programme giving low cost and long term efficient and with high availability of basic spares and the remotest possible locations in the shortest possible time.

SPECIFICATIONS

ENGINE

Type	Water Cooled Turbocharged with Intercooler BS IV
Max. Engine Output	210 HP @ 2400rpm
Max. Torque	780 Nm @ 1250-2000 rpm

GEAR BOX

No. of gears	5 Forward, 1 Reverse
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BRAKES

Service Brake	Full Hydraulics with all wheel Disc Brakes assisted by Hydrobooster with ABS, Dual Circuit.
Parking Brake Type	Electro hydraulically actuated caliper acting on Transfer Case

SUSPENSION

Type	All Wheel Independent, Double wishbone, Air springs with Hydraulic Damper, Self Leveling capable and with ARB in front and rear.
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HVAC

Climate Control	25±5°C cabin temperature @ 45°C ambient in 30min, 15±5°C cabin temperature @-15°C ambient in 25min, Demist
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WHEELS AND TYRES

Tyres	Tyre Size 335/80 R20 All Steel Radial Tubeless
No. of Wheels	Front- 2 Rear 2 Run flat & CTIS available (No Spare Wheel)

FUEL TANK

Capacity	150 litres
Crew Compartment Type	Lightweight Composite Crew Compartment
No. of seats	2 + 2 (All are front facing seats)

VEHICLE PROTECTION CAPABILITIES

Under Hull	Blast Protection, Stanag Level II (a) and (b)
Crew Compartment	Stanag Level II ballistic threats
Turret	Full 360° azimuth, Elevation of 30°, Depression of 10°

PERFORMANCE

Max. Geared Speed in Top Gear	105 kmph
Max. Gradeability	30 degree
Acceleration 0-60kmph	20 sec
Minimum turning circle dia	15m
Fordability without preparation	750mm

MAIN CHASSIS DIMENSIONS

Wheel Base	3450mm
Overall Length	5550mm
Max. Width	2500 mm
Overall height	2350 (without Turret) 2825 (with Turret Hatch Closed) 3075 (with Turret Hatch Open)

Approach Angle	40deg
Departure Angle	35deg
Ground Clearance	300

WEIGHTS (kg)

Kerb weight	6500
Payload	1500
Max. Permissible GVW	8000



In case of any support requirement for vehicle attention, please specify the vehicle model, chassis no., Location of vehicle, Contact person name and mobile number for quick response.

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