

YUKTHI RATH

MINE PROTECTED VEHICLE



MANUFACTURED BY
ORDNANCE FACTORY MEDAK

A UNIT OF INDIAN ORDNANCE FACTORIES



MINE PROTECTED VEHICLE

Mine Protected Vehicle (MPV) Manufactured At OFPM Is Intended To Address The Threat Of Terrorist Activities And Provide Safety To The Personnel Against Land Mine Blast. The Hull Built With High Strength Alloy Armour Steel Offer Protection Against Small Arms And Can Withstand Mine Blast Of 10 Kg TNT.

SALIENT DESIGN FEATURES

The mine protected vehicle consists of a mine-protected monocoque hull/body.

Max. safety of the crew from ballistic and mine blasts attack due to 'v' shaped Envelope of the hull.

Minimum down time to restore after detonation of landmines under the vehicle.

Power assisted steering.

Ease of replacement of axles and other aggregates in the field.

The engine transmission and fuel tank-all contained within armour hull for maximum protection from detonation.

Side prot holes for personal weapons.

High impact resistant windows, replaceable transparent glass to provide protection against small arms ammunition attack.







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NUCLEAR BIOLOGICAL & CHEMICAL RECONNAISSANCE VEHICLE (NBCRB)



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Most modern high-tech Engineering
Factory, in the chain of Indian Ordnance
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Manufacturing of Infantry Combat Vehicles and its Variants.
An IS/ISO 9001 – 2015 Certified unit.

BRIEF OF NBCRV

- The Nuclear Biological & Chemical Reconnaissance Vehicle (NBC RV) is based on the versatile BMP Amphibious Infantry Combat Vehicle.
- It is designed to meet the tactical requirements of the Military Engineers for carrying out Nuclear, Biological & chemical contamination survey. It is equipped with state-of-the-art systems designed to meet the user requirements.
- NBCRV provides the reconnaissance capability in hatch down condition. There are eleven instruments fitted and integrated to provide the real time data of contamination by Engineers.
- The vehicle can cross the water obstacles afloat.

GENERAL

Type of vehicle	Full-tracked, armoured, amphibious, Air-Transportable
Combat loaded mass	14.5 ton + 2%
Personnel capacity	6 persons (commander, gunner, driver & crew 3 Persons)
Engine Power	300 hp

DIMENSIONS

Overall Length	6735 mm
Overall Width with PDS	3550 mm
Overall Height	2450
Max. Speed over Highway	65 kmph
Max Speed in water	7 kmph
Cross country speed	45 kmph
Vertical obstacle max.	0.7m
Trench crossing max.	2.5m
Gradient	35 deg.

ARMAMENT

Automatic Gun 2A 42, 30 mm Caliber

Coaxial Machine Gun PKT 7.62mm

SPECIAL EQUIPMENTS INTEGRATED

1. Control Console
2. Advance Land Navigation System (ALNS)
3. Ruggedised Lap top
4. STARS V MK II Radio set
5. Communication Link Controller (CLC)
6. Roentgen meter
7. Pocket dosimeter (PDM)
8. Portable Dose Rate Meter (PDRM)
9. Solid State Anemometer (SSA)
10. RPL Dosimeter
11. Portable Gas Chromatograph
12. RVD Kit
13. GID -3
14. Motorola Set
15. Power Distribution Box
16. Ruggedized Scooping Device
17. Picket Driving System
18. NBC Items
19. AC System



THE GENERAL MANAGER
ORDNANCE FACTORY MEDAK
YEDDUMAILARAM,
SANGAREDDY – DIST – 502 205, (T.S)

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CARRIER MORTAR TRACKED

BUILT TO CONQUER



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TECHNOLOGICAL STRENGTH

- Laser Cutting (3 & 5 Axis)
- Plasma Cutting
- Thermo Pressing
- State-of-Art CNC Systems
- Pressing Capacity upto - 4000T
- Most Modern Foundry

DIMENSIONS

Length	-	6735 mm
Width Over Track Guards	-	3150 mm
Height (Max)	-	2345 mm
Ground Clearance	-	420 mm
Weight	-	14.0 mm
Crew Capacity - Driver & Commander		
		+ 4 Mortar crew

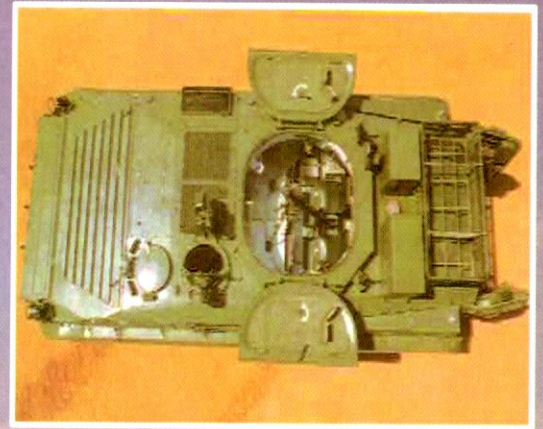


COMBAT CHARACTERISTICS

Max. Speed (Over Highway)	- 65 kmph
Patrolling Speed	- 45 kmph
Cruising Range (Over Highway)	- 600 km
Engine Power	- 300 HP

WEAPON SYSTEMS

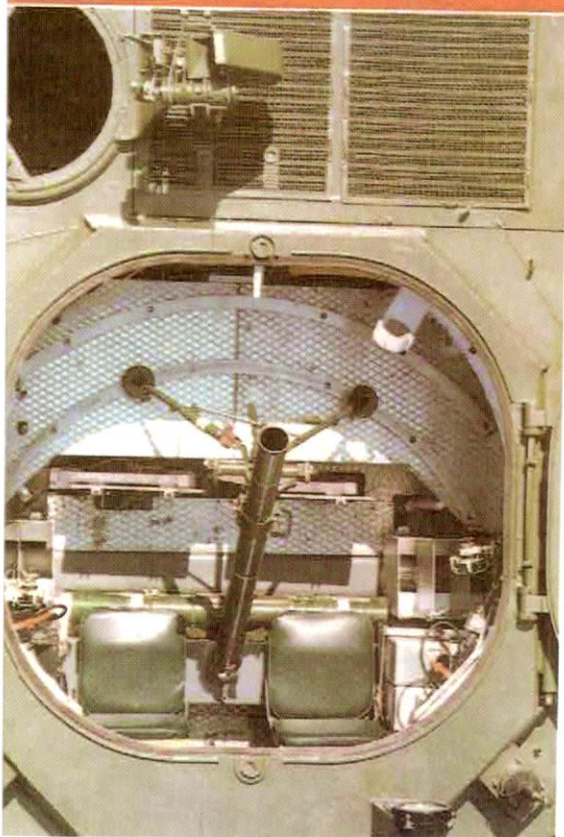
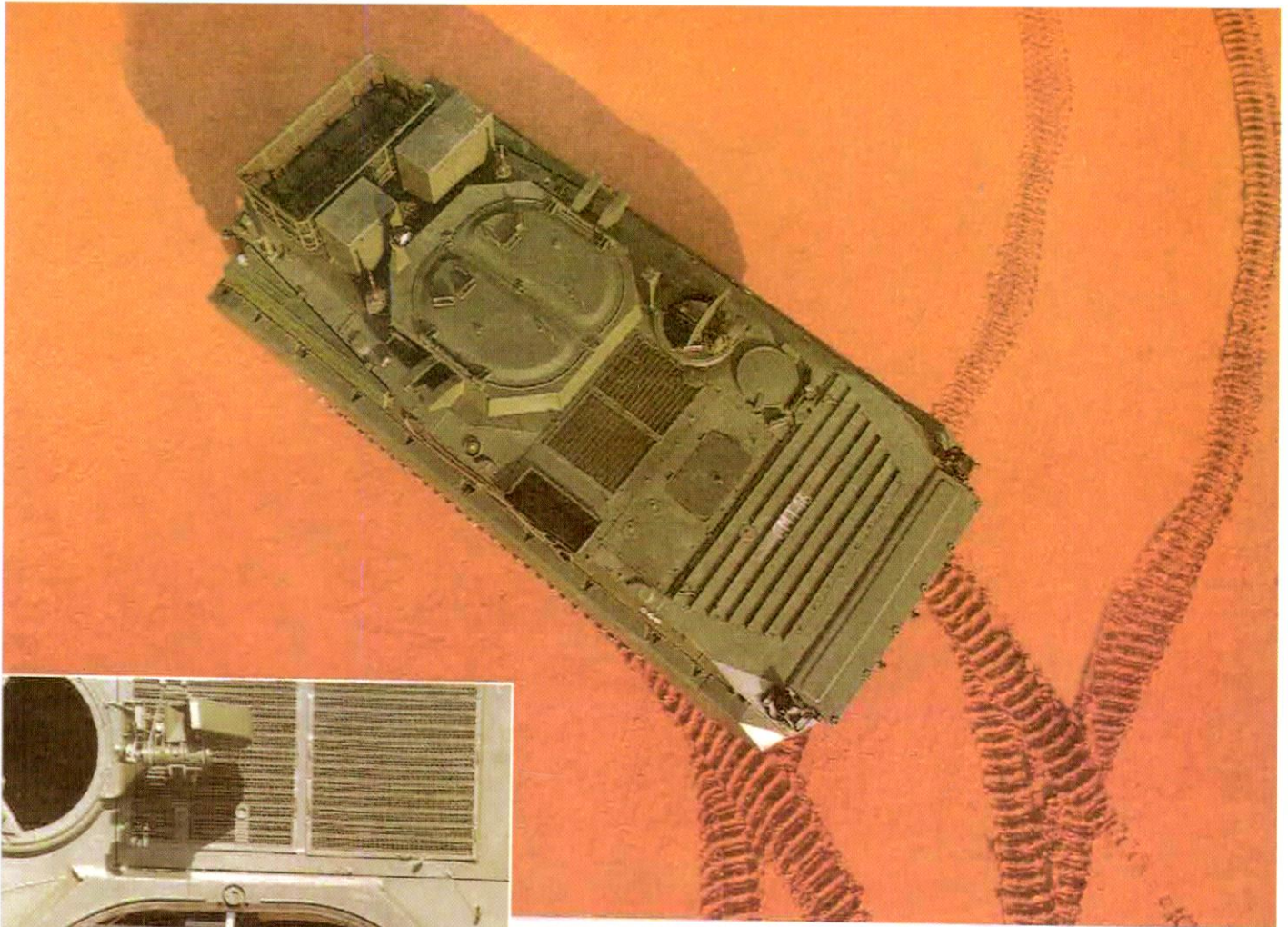
81 mm Mortar	1 No.
84 mm Rocket Launcher	1 No.
7.62 mm MAG Gun	1 No.



AMMUNITION STOWAGE

81 mm Mortars	108 Rds
84 mm Rockets	12 Rds
7.62 mm Cartridges	2350 Rds
(Combination possible)	





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SARATH

THE CHARIOT TO VICTORY

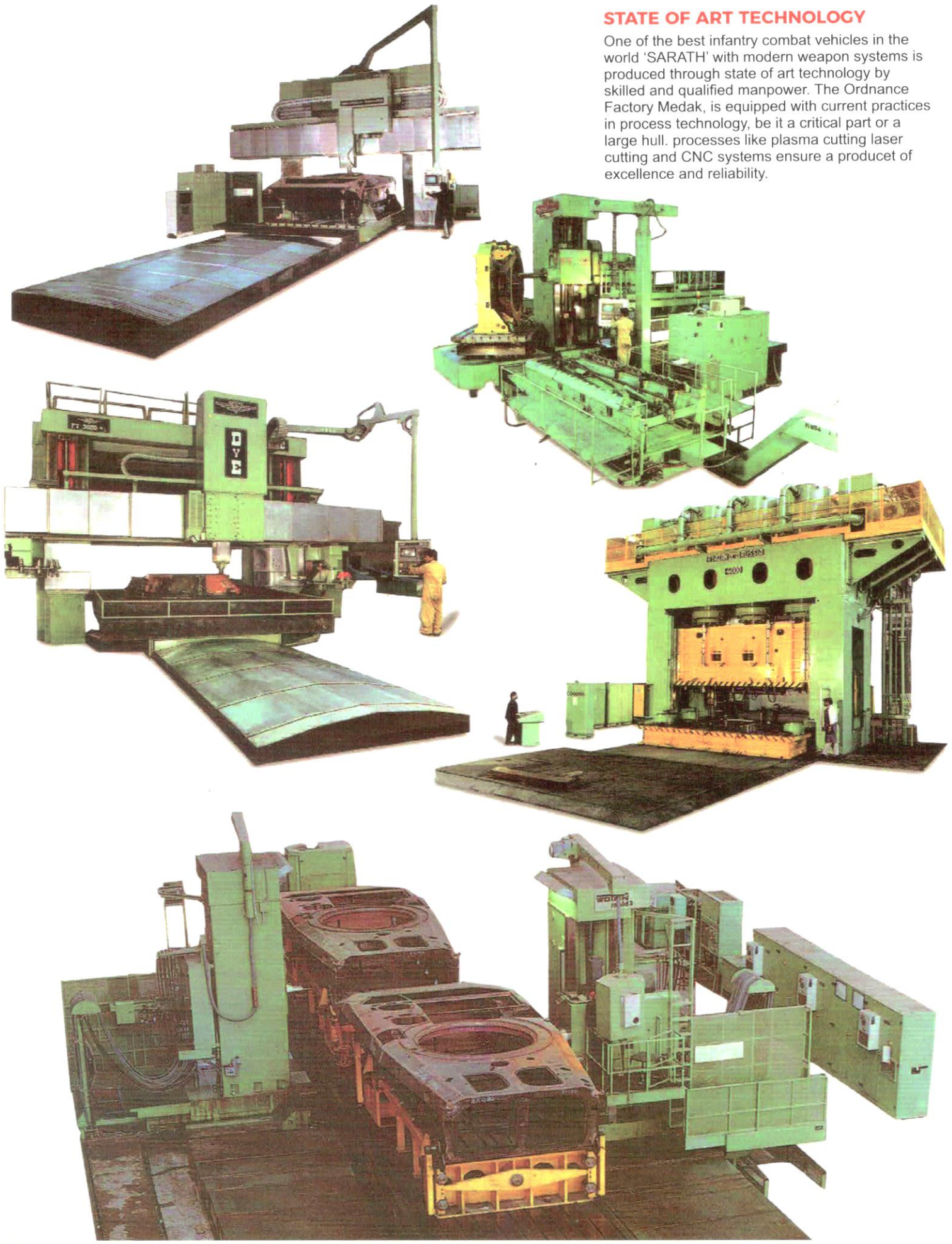


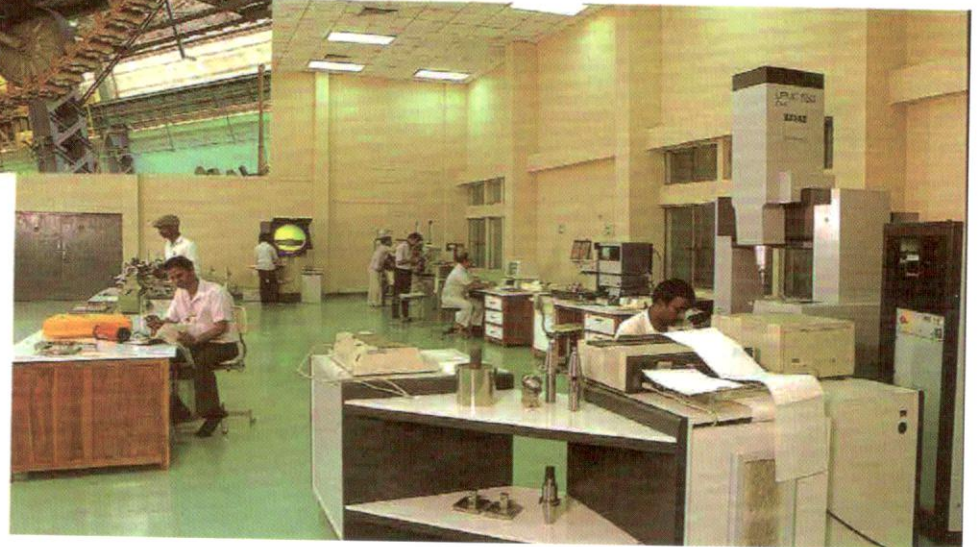
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STATE OF ART TECHNOLOGY

One of the best infantry combat vehicles in the world 'SARATH' with modern weapon systems is produced through state of art technology by skilled and qualified manpower. The Ordnance Factory Medak, is equipped with current practices in process technology, be it a critical part or a large hull. processes like plasma cutting laser cutting and CNC systems ensure a product of excellence and reliability.





SARATH - TESTED TO LAST

SARATH - THE VERSATILE

MOBILITY : Powered by a powerful 300 hp Engine, SARATH is a highly mobile vehicle which meets all tactical requirements of mobility in a battlefield, travels at an incredible 65 KMPH, with easy steering ability in cross country terrain

Sarath is a truly amphibian vehicle which can travel at 7 KMPH on water and can over-come slopes upto 35° and can cross obstacles of 0.7 M. SARATH can be easily transported by air due to its low weight.

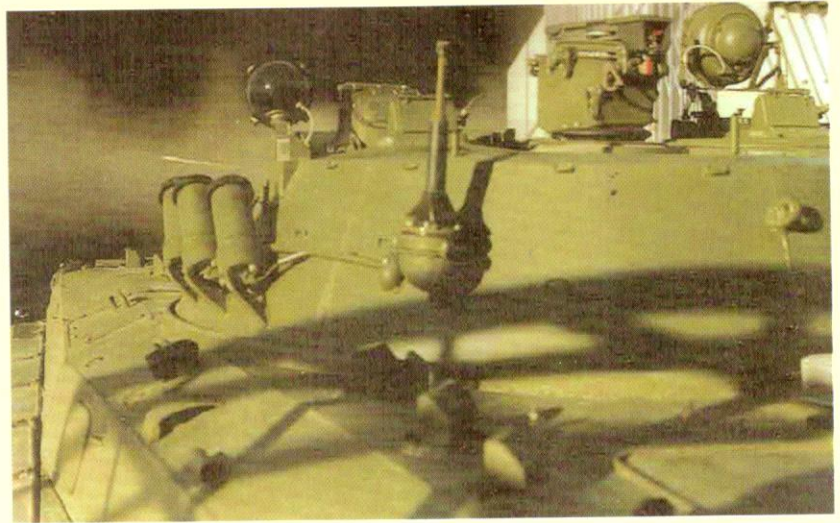
PROTECTION: SARATH is protected with armoured plates all around there by ensuring a high degree of protection to the chameleon. sarath offers a chameleon like camouflage with the help of smoke grenades creating of smoke screen.

FIRE POWER : Equipped with a rapid fire 7.62 MM medium coaxial machine gun, a 30MM cannon and a second generation homing type anti tank guided missile, the SARATH can Neutralise all kinds of Land based and low flying military objects

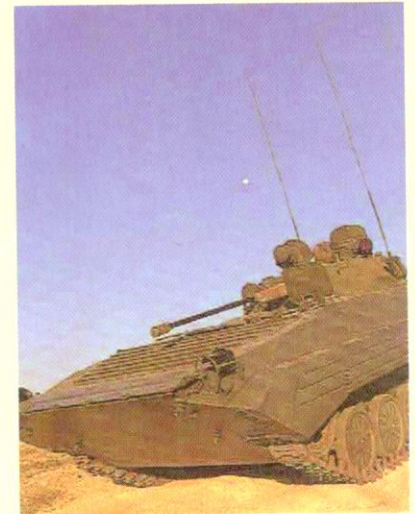
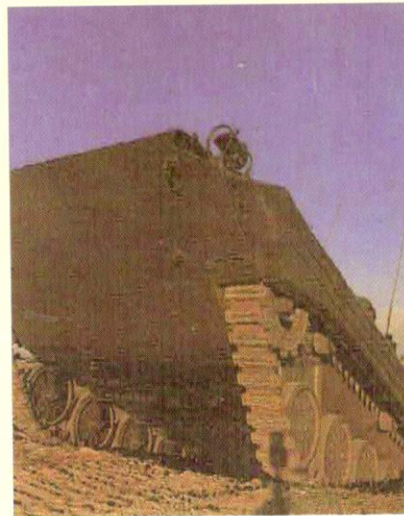
NIGHT VISION : provided with sharp night vision devices and a low silhote, SARATH is a dream come true for an infantry man in the battle field.

SARATH - ideal for fighting night battle with speed, surprise and deadly precision.

SARATH - THE INVINCIBLE CHARIOT



EAPON TESTS FOR ACCURACY IN FIRING TUNNEL



PERFORMANCE TESTS ON TEST TRACKS



KONKURS MISSILE TESTING AT RANGE



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ARMoured ENGINEER RECONNAISSANCE VEHICLE (AERV)



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BRIEF OF AERV

The Armoured Engineer Reconnaissance Vehicle (AERV) is based on the versatile BMP-II Amphibious Infantry Combat Vehicle.

It is designed to meet the tactical requirements of the Military Engineers for carrying out terrestrial and under water survey.

There are Navigation equipments with land and water Recce Instruments fitted and integrated to provide the real time data to predict mobility of vehicles and bed profile of the water obstacle for laying of bridges by Engineers.

The vehicle can cross the water obstacles afloat.

SYSTEMS INTEGRATED ON AERV

- a) Navigation Instruments:
 - i) Advanced Land Navigation System [ALNS]
- b) Land Recce Instruments:
 - i) Digital Cone Penetrometer [DCP]
 - ii) Laser Range Finder [LRF]
 - iii) Thermal Sight
 - iv) Range and Angle Measuring Device
 - v) Inclinator [INCL]
- c) Water Recce Instruments:
 - i) Echo Sounder [ES]
 - ii) Water Current Meter [WCM]
 - iii) Electronic Distance Meter [EDM]
 - iv) Hand held Water Current Meter [HHWCM]
 - v) Water Depth Measuring Device [WDMD]

- d) Integration Instruments:
 - i) Control Console [CC]
 - i) Power Distribution Box [PDB]
 - ii) Ruggedised Dot Matrix Printer [R-DMP]
- e) Other Systems
 - i) Air Conditioning System - 1.5 ton
 - ii) Picket Driving System [PDS]

COMBAT CHARACTERISTICS

Combat loaded mass	13.4 + 2% ton
Personnel capacity	6 persons
Troop	3 persons
Hull length	6735 mm
Width with PDS	3555 mm
Height : over commander's vision device spotlight	2450 mm

COAXIAL MACHINE GUN

PKT 7.62 mm Caliber

COMMUNICATION

Tadiran Radio Set VRC-1465 M1-80/A 1(5/50W)
Intercom: Digital Control Harness (DCH)

FIRE FIGHTING EQUIPMENT

Instant Fire Detection & Suppression System
(IFDSS)

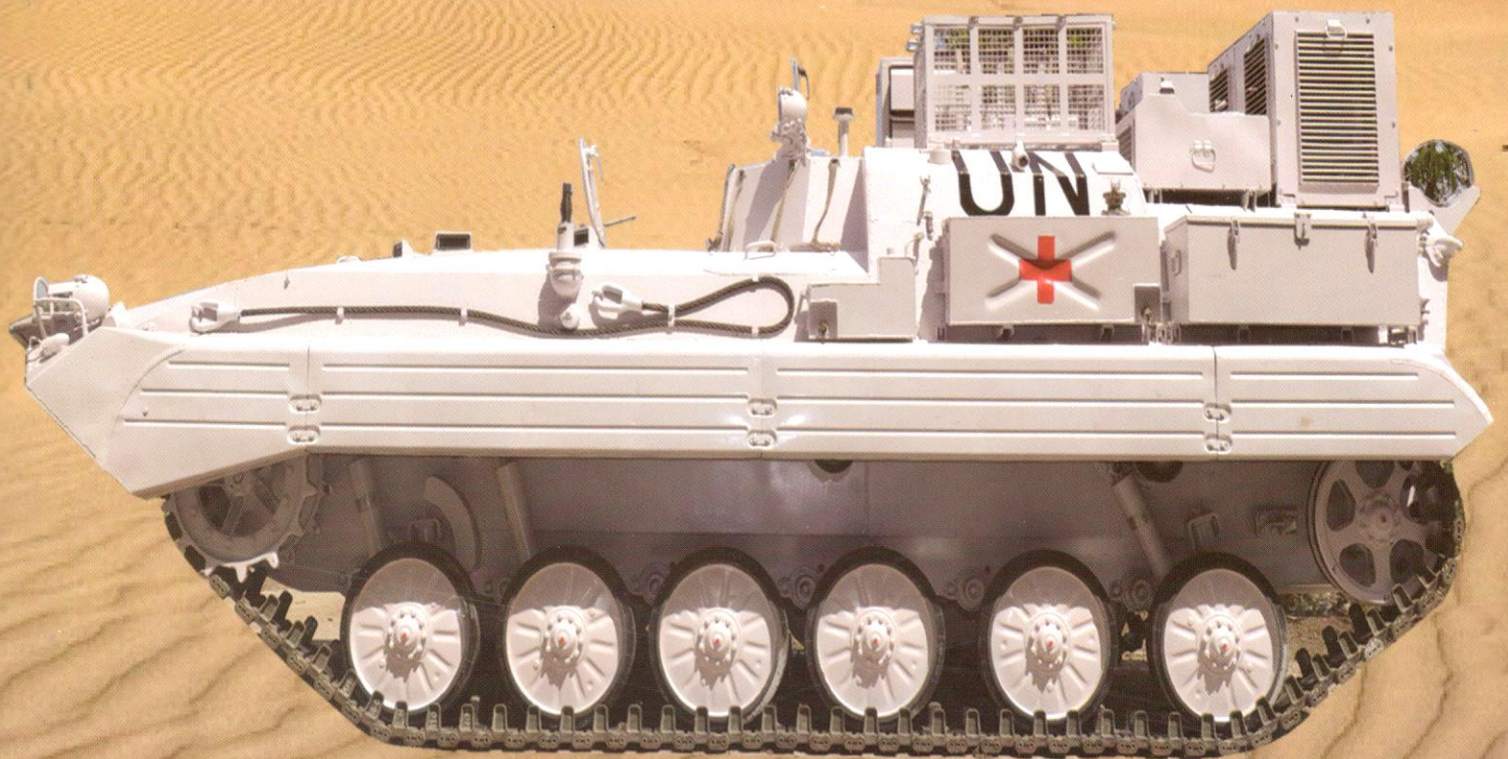


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ARMoured AMBULANCE TRACKED

FOR SPEEDY EVACUATION OF BATTLE FIELD CASUALTIES WITH
IMMEDIATE MEDICAL CARE



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PROVISION FOR

- Four stretcher patients (or) Two stretcher & four sitting patients (or) Eight sitting patients.
- Two medical attendants.
- Blood & saline transfusion.
- Oxygen administration.
- Stowage of Thomas Splints & Crammers (conventional and inflatable), kidney tray, Urine Bottle, Bed pan, Oxygen cylinders, Saline bottles, Medicines.

SPECIALIZED MEDICAL EQUIPMENTS

- Defibrillator With NIBP
For continuous ECG monitoring with printout, automated external defibrillation & pacing, measurement of Non Invasive Blood Pressure, Pulse rate and Oxygen saturation.
- Ventilator
For artificial respiration with various modes of ventilation.
- Suction unit
Electrical suction unit for removal of unwanted secretions and fluids.
- DC Refrigerator with cooling & heating facility for preserving life saving drugs.



SPECIAL FEATURES

- 3 Tr Air - conditioner with heating facility using a dedicated auxiliary power unit for patient and crew comfort.
- Provision to power medical equipments from vehicle / auxiliary power unit.
- Stowage bins for the personal arms of injured casualties.
- Adequate bins for stowage of essential medicines.
- Stowage adequate drinking water.
- Excellent mobility and obstacle crossing capability in various battle field terrain and amphibious.
- Special blower and absorbent filter for NBC protection.
- External and internal communication using radio set R173/Tadiran and R174.
- GPS 9312A1 for navigation.
- External bin and basket for keeping vehicle tools and accessories





Technical Specifications

General

Crew	:	Driver, Commander / Medical Officer, Two medical attendants.
Combat loaded mass	:	14t + 2%
Overall Length	:	6735 mm
Overall Width	:	3150 mm
Overall Height	:	2600 mm
Engine Power	:	300 hp
Max Speed on road	:	65 kmph
Cross Country Speed	:	45 kmph
Max Speed in water	:	7 kmph
Crusing range on highway	:	550 to 600 km
Vertical obstacle	:	0.7 m (max)
Trench crossing	:	2.5 m (max)
Gradient	:	35"
	1.	Defibrillator with NIBP
	2.	Transport ventilator
	3.	Suction Unit
	4.	D.C. Refrigerator
	5.	Inflatable & conventional Thomas splints and Crammers
	6.	Oxygen cylinders 1246 ltrs. (2 nos.)
	7.	Kidney Tray
	8.	Urine bottle & Bed Pan
	9.	Pillows & Blankets
Air Conditioning system	:	3 Tr with dedicated APU
Communication System	:	Radio Set R 173 / Tadiran for external communication & R 174 for internal communication
Navigation	:	GPS 9312A1 & GPK 59



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