



ARMoured VEHICLES NIGAM LIMITED
(A Govt. of India Enterprise)

ITEMS AVAILABLE FOR EXPORT



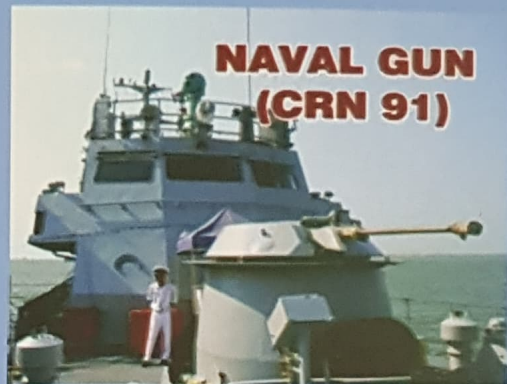
MAIN BATTLE TANK (ARJUN)



T 72 BRIDGE LAYERED TANK



T 90 BHISHMA



CRN 91 GUN



MINE PROTECTED VEHICLE



CHAFF DECOY LAUNCHER
(KAVACH LAUNCHER MOD II)

ARMOURED VEHICLES NIGAM LIMITED

AVNL one of the DPSUs formed consequent to the decision of Government of India to convert Ordnance Factory Board into 07 fully owned Government Corporate Entities.

AVNL comprises of 05 Manufacturing Units and 03 Non-Production units.

AVNL has been registered by Ministry of Corporate Affairs
on 14th August 2021 under Company's Act of 2013.



The foundation stone of **HVF** was laid by the then Defence Minister Shri. V.K Krishna Menon on **29th Dec 1961** for the manufacture of sophisticated Armoured Fighting Vehicles for Indian Army. Formal Inauguration of the Factory was done by the then Prime Minister Late Smt. Indira Gandhi. Vijayanta Tank was the first tank rolled out in collaboration with M/s Vickers Armstrong Ltd.



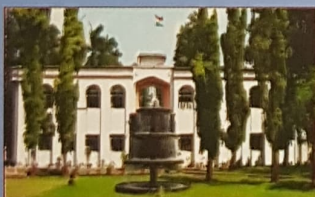
EFA is the only production unit in India for manufacturing of Engines for T-90, T-72 & BMPs. Initially Started as Combined Engine Plant (CEP) in April 1987 and was functioning under HVF. It became independent Unit as Engine Factory Avadi (EFA) on 01.01.1995. Existing Employee strength is 1210. EFA as on date is manufacturing three types of high power diesel engines for T90, T-72, BMP II and also overhauling of the engines.



VFJ, manufactures "B" vehicles that have proved their mettle on glacial heights, in scorching deserts and swampy jungles. Boulder strewn mountain tracks, clinging desert and water logged forest paths are some of the obstacles encountered and surmounted by these four-wheel drive vehicles specially made to suit military applications.



The foundation stone of **OFMK** was laid down by the then Prime Minister of India Smt. Indira Gandhi on 19th July 1984, to manufacture Infantry Combat Vehicle (ICV) "SARATH" consisting of modern weapon systems. Within a span of three years, SARATH started rolling out of Ordnance Factory Medak in 1987.



MTPF was set up in the year 1953 in technical collaboration with M/s Oerlikon Machine Tool Works, Switzerland for Design, Development and Manufacturing of Machine Tools. The factory produces gear boxes for Artillery equipment, Vehicles & Tanks, Ammunition stores, Naval Decoy System KAVACH and sub-assembly of project Dhanush etc. Existing Employee strength is 913.





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ARMOURED VEHICLES NIGAM LIMITED
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T 90 BHISHMA



SPECIFICATIONS

WEIGHT	46.5 TONNES
CREW	3
OVERALL LENGTH	9.530 M
OVERALL HEIGHT	2.865 M
OVERALL WIDTH	3.780 M
MAXIMUM ROAD SPEED	60 KMPH
ENGINE POWER	1000 HP
POWER TO WEIGHT RATIO	21.5 HP/T
SHALLOW FORDING	1.8 M
FORDING	5 M (WITH SNORKEL)
VERTICAL OBSTACLE	0.85 M
TRENCH CROSSING	2.6 TO 2.8 M
GRADIENT	30 DEGREES
GUN BORE	125 MM (SMOOTH)
RATE OF FIRE	8 RDS / MIN
AMMUNITION	43 (GUIDED MISSILE / FSAPDS / HEAT / HE)
CO-AXIAL MACHINE GUN	7.62 MM
ANTI-AIRCRAFT MACHINE GUN	12.7 MM



ARMoured VEHICLES NIGAM LIMITED

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COMBAT IMPROVED AJEYA - T72



SPECIFICATIONS

WEIGHT	43 TONNES
CREW	3
OVERALL LENGTH	9.530 M
OVERALL HEIGHT	2.190 M
OVERALL WIDTH	3.590 M
MAXIMUM ROAD SPEED	60 KMPH
ENGINE POWER	780 HP
POWER TO WEIGHT RATIO	19 HP/T
SHALLOW FORDING	1.8 M
FORDING	5 M (WITH SNORKEL)
VERTICAL OBSTACLE	0.85 M
TRENCH CROSSING	2.8 M
GRADIENT	30 DEGREES
GUN BORE	125 MM (SMOOTH)
RATE OF FIRE	8 RDS/MIN
AMMUNITION	44 (FSAPDS/HEAT/HE)
CO-AXIAL MACHINE GUN	7.62 MM
ANTI-AIRCRAFT MACHINE GUN	12.7 MM



ARMoured VEHICLES NIGAM LIMITED

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TRAWL -T72



SPECIFICATIONS

WEIGHT	50.5 TONNES
CREW	3
OVERALL LENGTH	9.530 M
OVERALL HEIGHT	2.190 M
OVERALL WIDTH	3.590 M
MAXIMUM ROAD SPEED	60 KMPH
ENGINE POWER	780 HP
POWER TO WEIGHT RATIO	15.44 HP/T
SHALLOW FORDING	1.8 M
FORDING	5 M (WITH SNORKEL)
VERTICAL OBSTACLE	0.85 M
TRENCH CROSSING	2.8 M
GRADIENT	30 DEGREES
GUN BORE	125 MM (SMOOTH)
RATE OF FIRE	8 RDS / MIN
AMMUNITION	44 (FSAPDS/HEAT/HE)
CO-AXIAL MACHINE GUN	7.62 MM
ANTI-AIRCRAFT MACHINE GUN	12.7 MM



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BRIDGE LAYER TANK-T72



SPECIFICATIONS

WEIGHT	49 TONNES
CREW	2
OVERALL LENGTH	11.36 M
OVERALL HEIGHT	3.8 M
OVERALL WIDTH	4.0 M
MAXIMUM ROAD SPEED	60 KMPH
ENGINE POWER	780 HP
POWER TO WEIGHT RATIO	16.77 HP/T
BRIDGE TYPE	SCISSORS LAUNCH
SHALLOW FORDING	1.8 M
(MEDIUM FORDING WITH SNORKEL)	
VERTICAL OBSTACLE	0.76 M
TRENCH CROSSING	2.4 M
GRADIENT	25 DEGREES
ANTI-AIRCRAFT MACHINE GUN	12.7 MM



ARMOURED VEHICLES NIGAM LIMITED
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MAIN BATTLE TANK ARJUN MK 1A



SPECIFICATIONS

WEIGHT	68 TONNES
CREW	4
OVERALL LENGTH	10.642 M
OVERALL HEIGHT	3.182 M
OVERALL WIDTH	3.950 M
MAXIMUM ROAD SPEED	58 KMPH
ENGINE POWER	1400 HP
POWER TO WEIGHT RATIO	20.59 HP/T
SHALLOW FORDING	1.4 M
FORDING	2.15 M
VERTICAL OBSTACLE	0.45 M
TRENCH CROSSING	2.0 M
GRADIENT	20 DEGREES
GUN BORE	120 MM (RIFLED)
RATE OF FIRE	6 - 8 RDS / MIN
AMMUNITION	39 (FSAPDS/HESH, PCB, TB & CANON LAUNCHED GUIDED MISSILE)
CO-AXIAL MACHINE GUN	7.62 MM
ANTI-AIRCRAFT MACHINE GUN	12.7 MM NSVT (ON RCWS)



HEAVY VEHICLES FACTORY

ARMOURED VEHICLES NIGAM LIMITED
GOVT. OF INDIA ENTERPRISE
MINISTRY OF DEFENCE

OFNK

EFA

MUPF

VFJ



BMP - II

with

Remote Controlled Weapon System



Ordnance Factory Medak Hyderabad

A Unit of Armoured Vehicles Nigam Limited

Govt of India Enterprises, Ministry of Defence

An 9100D:2016 Certified Organization

KEY FEATURES

- ☑ Fire Power: Main Gun –MK44 (30 x 173 mm Gun) / suitable for mounting the 2A42 (30 x 165 mm Gun) 7.62 mm Coaxial Machine Gun MAG/PKT, 2 ATGM –Spike LR Missiles
- ☑ Electro-optical Fire Control system and weapon control : 2 axis stabilized Gunner sight and commander sight (3rd Gen. Day, Night & LRF)
- ☑ Ergonomics & ease of operation: Service Hatch from inside the vehicle to the turret
- ☑ System enables gunner/commander different operations including cocking and firing of cannon/Machine gun from remote
- ☑ Ballistic Protection: STANAG 4569 Level 2
- ☑ Self-Diagnosis: Built-In Test (BIT) Capability in continuous, Power On, Initiated BIT
- ☑ Interchangeability: Due to its modular design, Low Weight, and Effective space, it can be integrated with other AFVs.
- ☑ Connectivity: To other vehicles Network architecture
- ☑ Ammunition Loading: Inside the turret
- ☑ Operation during Day and Night
- ☑ Ease of operation through an advanced Human Machine Interface
- ☑ High reliability and availability



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CRN-91 GUN SYSTEM



CRN - 91 GUN

Sl. No.	Parameter	Specification
1.	Calibre	30 mm
2.	Barrel Life	6000 rounds (9000 rounds with over-hauling)
3.	Weight of the Gun	<2700 kg (including mounting system)
4.	Range (MER)	For APT 2 km, For HE 4 km
5.	Rate of fire	>200 rounds/min
6.	Magazine capacity	500 rounds (160 APT +340 HE)
7.	Ammunition	HE, Tracer, Practice, Incendiary, APT
8.	Stabilization accuracy	<1m Rad
9.	Slewing Rate	Traverse: > 30°/sec; Elevation : >35°/sec
10.	Service Life	30 years with services/overhauling
11.	Cartridge	Soviet Standard

Manufactured by

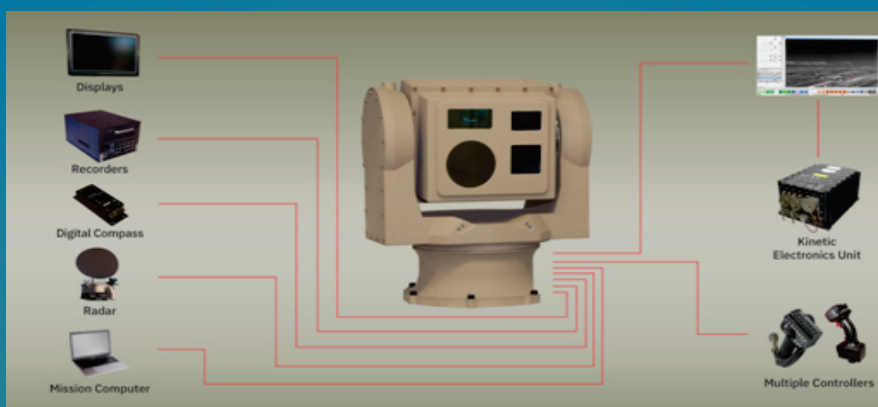


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SPECIFICATION

B. OPTRONIC PEDESTAL (EOFCS)

Sl. No.	Parameter	Specification
01.	Weight of EOD	<100 kg
02.	Stabilization accuracy in both azimuth and elevation	< 50 μ Rad & 0.1 m Rad pointing accuracy
03.	Slewing rate in azimuth and elevation	Range 0-114.6 ° / sec
	Azimuth	360°
04.	Elevation	- 71 ° to + 74 °
05.	Sub-Modules	1. Thermal Imager, 2. CMOS Camera, 3. Laser Range Finder
06.	B.1 Thermal Imager (TI)	
	Spectral Range	3-5 μ m
01.	Narrow FOV(Horizontal)	1.96° x 1.47° (Analog); 1.96° x 1.10° (Digital)
02.	Wide FOV (Horizontal)	10.6° x 7.95° (Analog); 10.6° x 5.96° (Digital)
03.	Range (detection)	17.9 km
04.	B.2 Colour CCD/CMOS Camera	
	Narrow FOV (Horizontal)	1.61° x 1.21° (Analog); 2.15° x 1.21° (Digital)
01.	Wide FOV (horizontal)	10.6° x 7.9° (Analog); 14.1° x 7.9° (Digital)
02.	Resolution	1280 x 720 pixels
03.	Zoom	>18 x
04.	Range (detection)	17 km
05.	B.3 Laser Range Finder	
	Accuracy, Range and Divergence	$\pm$ 5 m, >10 km and <1 m Rad



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BMP - II VARIANTS

Carrier Mortar Tracked Vehicle (CMT)

CMT Vehicle is based on BMP-2. This turret less version has 81mm mortar mounted on the modified troop compartment. The mortar is fired through an opening in the hull roof that has two hinged doors.



Characteristics

Combat loaded mass	- 14 ton + 2%
Personnel capacity	- 6 persons
Overall Length	- 6735 mm
Overall width	- 3150 mm
Overall height	- 2345 mm
Weapon systems	- 81 mm Mortar, 7.62 mm MAG Gun

Armoured Engineer Reconnaissance Vehicle (AERV)

AERV is designed to meet 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 to provide the real time data to predict mobility of vehicles and bed profile of the water obstacle for the laying of bridges by Engineers

Characteristics

Combat loaded mass	- 13.4 ton + 2%
Personnel capacity	- 6 persons
Overall Length	- 6735 mm
Overall width with PDS	- 3555 mm
Overall height	- 2450 mm
Coaxial machine gun	- PKT 7.62 calibre
Special Equipment	- Navigation, Land Recce, Water Recce Instruments, AC System, Picket Driving System



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Armoured Ambulance Tracked Vehicle (AATV)

AATV is a variant of BMP vehicle. It is equipped with emergency medical equipment and for speedy evacuation of battle field casualties.

Characteristics

- Combat loaded mass - 14 ton + 2%
- Overall Length - 6735 mm
- Overall width - 3150 mm
- Overall height - 2600 mm
- Personnel capacity - 2 + 2 medical attendants, 8 sitting patients or 4 laying patients.
- Medical Equipment - Defibrillator with NIBP, Transport ventilator, suction unit, Splint Crammers, refrigerator, oxygen cylinders etc...
- Air Condition System - 3TR with APU



Carrier Command Post Tracked Vehicle (CCPT)

CCPT is designed for accomplishing the Command Post Functions and to carry out the tactical, technical & terminal fire control function for effective deployment of self propelled artillery guns

Characteristics

- Combat loaded mass - 15 ton
- Personnel capacity - 8 persons
- Overall Length - 7390 mm
- Overall width - 3120 mm
- Overall height - 2430 mm
- Armament - 7.62 PKT Machine Gun
- Special Equipments - Command Post Equipments, AC System



Nuclear Biological & Chemical Reconnaissance Vehicle (NBCRV)

NBCRV is designed to meet the tactical requirements of the Military Engineers for carrying out Nuclear, Biological & Chemical Contamination Survey. There are eleven instruments fitted to provide the real time data of contamination to Engineers.



Characteristics

- Combat loaded mass - 14 ton +2%
- Personnel capacity - 6 persons
- Overall Length - 6735 mm
- Overall width - 3550 mm
- Automatic Gun - 2A 42, 30 mm calibre
- Coaxial machine gun - PKT 7.62 calibre
- Special Equipments - NBC Equipment, Picket Driving System, AC System



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SARATH

THE CHARIOT TO VICTORY



Manufactured by



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SARATH – The Versatile

MOBILITY :

Powered by a powerful mobile engine which meets all tactical requirements of mobility in a battle field, travels at an incredible 65 kmph, with easy steering ability in cross country terrain.

SARATH is a truly amphibious vehicle which can travel at 7 kmph on water and can overcome slopes up to 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. Sarath offers a chameleon like camouflage with the help of smoke grenades creating a smoke screen.

FIRE POWER:

Equipped with a rapid fire 7.62 mm medium coaxial machine gun, a 30 mm 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 silhouette, Sarath is a dream come true for an infantry man in the battle field.

SARATH – The Invincible Chariot

MOBILITY :

1. Maximum Speed
Over Highway : 65kmph,
Afloat : 7 kmph
2. Average Speed : 40 to 50 kmph

Fire Power:

1. Automatic Gun 2A42, Caliber 30mm
Rate of Fire 550 rds/min
Muzzle Velocity : 960+10m/s
 2. coaxial Machine Gun PKT, Caliber 7.62mm
Rate of Fire 700 to 800 rds/min
 3. ATGM
- Designation : Konkur - M



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LPTA 715



- It is an In-service vehicle of Indian Army which is being produced at Vehicle Factory Jabalpur since 1998. More than 51000 LPTA trucks have been supplied to Armed forces by Vehicle Factory Jabalpur which In itself speaks volumes about the quality and reliability that this vehicle offers in this category.

• Features

- 155 HP Diesel Engine generating peak torque of 590 N-m at 1500 rpm.
- 6 Forward and 1 reverse gear box along with Auxiliary gear box for 4x4 power train.
- Differential lock for better off road performance.
- Tilttable cabin for ease of maintenance.
- Blackout lighting for blackout driving conditions.
- Cold starting device for high altitude operation.
- Option of Cross Country or Sand cum Highway tyres.

• Performance

- Payload: 2500 kg
- Max speed: 100 Kmph
- Gradeability: 31.5°
- Ground clearance: 300 mm.



Bullet proof Vehicles



Bullet proof TATA-407: This is a specially designed bullet proof version of the TATA-407 troop carrier.

- Ballistic protection
- Underbelly protection against HE grenades.
- Payload: 1000 kg.
- Crew capacity: 10+2
- Fitted with Spall liner throughout the cabin for improved ballistic protection.
- Provision of rotary turret with weapon mounting arrangement and gun ports for all crew members for counter-fire.
- Fitted with Run flat system for all around ballistic protection.

Bullet proof SML 4x4: This is a specially designed bullet proof version of the SML 4x4 troop carrier.

- Ballistic protection
- Underbelly protection against HE grenades.
- Payload: 1000 kg.
- Crew capacity: 10+2
- Fitted with Spall liner throughout the cabin for improved ballistic protection.
- Provision of rotary turret with weapon mounting arrangement and gun ports for all crew members for counter-fire.
- Fitted with Run flat system for all around ballistic protection.



Mine Protected Vehicle 6x6



• Features

- 320 HP, BS-IV Diesel Engine generating peak torque of 1250 N-m at 1200-1800 rpm.
- Crew capacity: 10+2
- 9 Forward and 1 reverse gear box along with Auxiliary gear box for 6x6 power train.
- Specially designed V shaped hull for optimum mine blast resistance.
- Blast attenuating seats for all crew members with 5 point seat belts for max safety in case of blasts.
- Self recovery winch of 15 Ton capacity.
- High capacity HVAC with individual ports for all crew members.
- Rear view camera with night vision capability.
- Heat insulated, pleasant interior for better comfort.
- 4 nos. remote operated rotating searchlights.
- All tyres fitted with Run Flat System.

• Performance

- Payload: 1500 Kg
- Max speed: 85 Kmph
- 0 to 45 Kmph in 35 sec.
- Gradeability: 30°
- Ground clearance: 335 mm
- Range: 500 Km



Mine Protected Vehicle 4x4 (Upgraded)



- It is an upgraded version of erstwhile Mine protected Vehicle 4x4 which was also produced by Vehicle Factory Jabalpur. Major upgradations and add-ons include Engine power, HVAC, rear view camera, Self recovery winch, rotating searchlights & power operated rear view mirror etc.

• Features

- 220 HP Diesel Engine generating peak torque of 800N-m between 1400 and 1800 rpm.
- Crew capacity: 10+2
- 6 Forward and 1 reverse gear box along with Auxiliary gear box for 4x4 power train.
- Specially designed V shaped hull for optimum mine blast resistance.
- Self recovery winch of 10 Ton capacity.
- Rear view camera with night vision capability
- Gun ports mounted in the BP glass for ease of counter-fire.
- 4 nos. remote operated rotating searchlights.
- All tyres fitted with Run Flat System.

• Performance

- Payload: 1500 kg
- Max speed: 85 Kmph
- 0 to 45 Kmph in 25 sec.
- Gradeability: 30°
- Ground clearance: 305 mm.
- Range : 750 Km.



Stallion MK-IV



- It is an In-service vehicle of Indian Army which is being produced at Vehicle Factory Jabalpur since 1998. More than 65000 Stallion vehicles have been supplied to Armed forces by Vehicle Factory Jabalpur which in itself speaks volumes about the quality and reliability this vehicle offers in this category.

Features

- 180 HP Diesel Engine generating peak torque of 657N- m at 1300-1600 rpm
- 6 Forward and 1 reverse gear box along with Auxiliary gear box for 4x4 power train.
- Differential lock for better off road performance.
- Fully forward control type, Tilttable cabin for ease of maintenance.
- Provision of sleeper cabin.
- Blackout lighting for blackout driving conditions.
- Cold starting device for high altitude operation.
- Option of Cross Country or Sand cum Highway tyres.

Performance

- Payload: 7500 kg (max)
- Max speed: 85 Kmph
- Gradeability: 30°
- Ground clearance: 305 mm.