



KALYANI



**BUILDING
TOMORROW,
TODAY**

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Challenging the Conventional.
Defying the Impossible.

At **Kalyani Strategic Systems Limited**, we believe "Impossible is nothing."

Our relentless pursuit of excellence drives us to challenge long-standing conventions, break boundaries and redefine the limits of what is achievable in the defense sector.

We are committed to delivering cutting-edge solutions that empower armed forces around the world. Specializing in **Artillery Systems, Protected Vehicles, Combat Vehicles, Ammunition, Small Arms, Unmanned Systems and Marine Systems**, Kalyani Strategic Systems Limited is at the forefront of transforming the global defence landscape.

ARTILLERY



ATAGS

(Advanced Towed Artillery Gun System)

- 155mm 52 Caliber Gun System
- Zero Backlash Electrical Drives: Hydro-Electric Gun System
- Fires Upto Zone 7
- Fires Complete Range of Nato Standard and in service ammunition
- Steer-by-wire method for self-propelled upto 18kmph
- Shoot and scoot capability
- Max Speed in towing mode 80kmph
- Coming into Action time: 2.5 minute in day and 3 minutes at night
- Automatic Ammunition Handling System (AHS)
- Shortest TCD for any towed gun with our patented technology

Elevation and Traverse

Elevation : -5°to75° with the speed of 5°/sec

Traverse : 30° Right and Left

Rate of Fire

Intense Rate : 10 rounds in 2.5 min

Sustained Rate : 60 rounds in 60 min



Garuda 105

4X4 HMV Go anywhere gun

- 105mm 37 Cal Mobile Weapon System
- Ultra-light weight gun system: Under 6 Ton
- State-of-the-art Hybrid Recoil Technology
- Mounted on 4 x 4 wheeled chassis enables all terrain maneuverability including High Altitude
- Grade Ability: 30° (go anywhere gun)
- Coming into Action: 1.5 minute in day and 2 minute in night
- Adaptable for fitting on any in-service vehicle
- Quicker emplacement, onboard fire control panel, electrically controlled elevation and traverse
- Shoot and scoot capability
- Low maintenance cost

Elevation and Traverse
Elevation : -5° to 72°
Traverse : 30° Right and Left.
(360° firing capable)

Rate of Fire
Normal Rate : 4 rounds/1 min
Intense Rate : 6 rounds/min for 2 to 3 min



MAR G 39-BR

155mm 39 Caliber Gun System on 4X4 HMV

- 155mm 39 Caliber Gun System
- 4 x 4 wheeled chassis enables all terrain maneuverability
- Gradient Negotiation: 25° (go anywhere gun)
- Shoot and scoot capability
- All up Weight: 22 Ton
- Capable of Firing complete NATO Standard and in service ammunition
- On Board Ammunition Carrying Capacity: 18 rounds with Zone 5
- Coming into Action Time: 1.5 minute in day and 2 minute in night

Elevation and Traverse

Elevation : -2° to +72° (11° above cab)

Traverse : 25° to Right & Left

Rate of Fire

Intense Rate : 10 rounds in 3 min

Sustained Rate : 42 rounds in 60 min



MAR G 45

155mm 45 Caliber Gun System on 4X4 HMV

- 155mm 45 Caliber Gun System
- 4 x 4 wheeled chassis enables all terrain maneuverability
- Gradient Negotiation: 25° (go anywhere gun)
- Go anywhere gun with all terrain maneuverability Shoot and scoot capability
- All up Weight: 23.5 Ton
- Capable of Firing complete NATO Standard and in service ammunition
- On Board Ammunition Carrying Capacity: 18 rounds with Zone 5
- Coming into Action Time: 1.5 minute in day and 2 minute in night

Elevation and Traverse

Elevation : -2° to +72° (11° above cab)

Traverse : 25° to Right & Left

Rate of Fire

Intense Rate : 10 rounds in 3 min

Sustained Rate : 42 rounds in 60 min



MARg 52

155mm 52 caliber Gun System on 6x6 HMV

- 155mm 52 Caliber Gun System
- 6 x 6 wheeled chassis enables all terrain maneuverability
- Gradient Negotiation: 25° (go anywhere gun)
- Go anywhere gun with all terrain maneuverability Shoot and scoot capability
- All up Weight: 30 Ton
- Capable of Firing complete NATO Standard and in service ammunition
- On Board Ammunition Carrying Capacity: 24 rounds with Zone 6
- Coming into Action Time: 1.5 minute in day and 2 minute in night

Elevation and Traverse

Elevation : 0° to +72° (11° above cab)

Traverse : 25° to Right & Left

Rate of Fire

Intense Rate : 12 rounds in 3 min

Sustained Rate : 42 rounds in 60 min



Mounted Gun System - ATAGS 155mm/52 Cal

- 155mm 52 Caliber Gun System mounted on 8X8 High Mobility Vehicle
- Capable of Firing 45+ km with standard 155mm Ammunition
- System has ability to fire Zone 7 charge
- World's first All Electric Drive 155mm/52 Cal system on 8x8
- Automatic Ammunition Handling System (AHS)
- Shoot and Scoot capability
- Fires Complete Range of NATO Standard and in-service ammunition

Elevation and Traverse
Elevation : 0° to 70° (11° above cab)
Traverse : 30° Right and Left

Rate of Fire
Intense Rate : 10 rounds in 2.5 min
Sustained Rate : 60 rounds in 60 min



Bharat ULH 155mm 39 CAL

High Strength Steel

- 155mm 39 Caliber Gun System
- Ultra-light Weight Gun System: Indigenously designed and developed solution
- Extremely Light Weight: 6.8 ton
- Deployable at high mountain areas
- Quicker emplacement and digital fire control
- High reliability and low maintenance cost
- Range achieved from 24.7km (ERFB BT) to 30km (ERFB BB)

Speed in Towing Condition
On Black Top : 60 Kmph
Cross-country Terrain : 24 kmph

Elevation and Traverse
Elevation : -3° to 70°
Traverse : 23° Right and Left

Rate of Fire
Intense Rate : 12 rounds in 3 min
Sustained Rate : 42 rounds in 60 min

PROTECTED VEHICLES



LAMV

Multi-Role, Highly Dynamic,
Mine Protected,
Light Armoured Multipurpose Vehicle

LAMV

- 4x4/4x2 Independent Suspension Armoured Vehicle
- Enhanced power-to-weight ratio
- Ballistic Protection up to STANAG II
- Continuous operations from -20°C to 45°C
- Innovative flat floor design

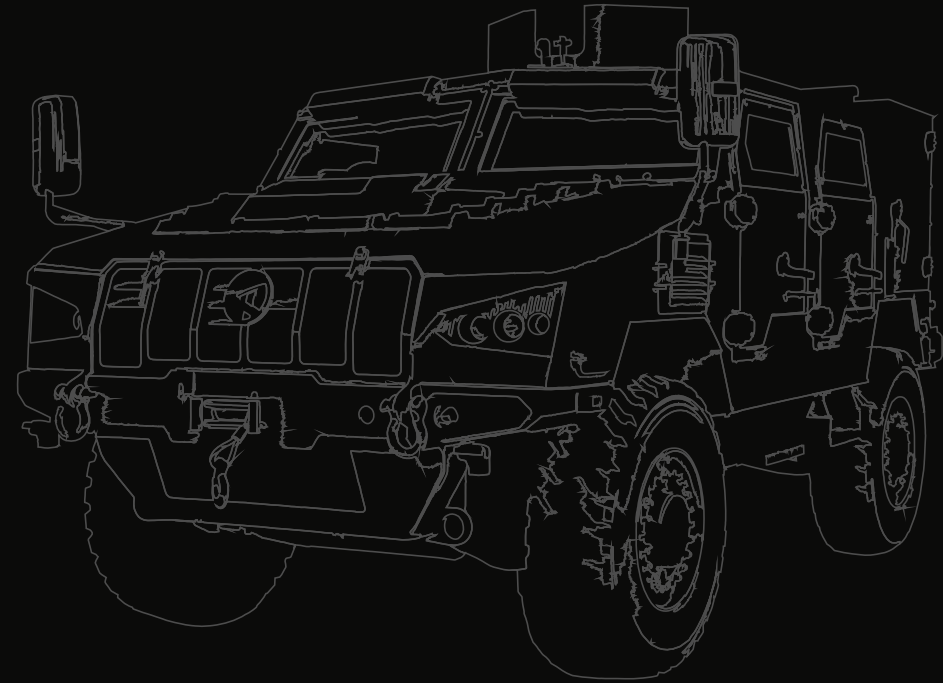
Additional Features

- Driver Assist Camera System
- Central Tyre Inflation System (CTIS)
- Automatic Fire Detection & Suppression system (AFDSS)
- Cargo Compartment
- Roof Hatches
- Vehicle Location and Tracking System
- Independent Suspension for All Four Wheels
- Pneumatic Disc Brakes with ABS with Hill Hold Assist

Light Armoured Multipurpose Vehicle

GENERAL SPECIFICATIONS

Protection Level	STANAG II Protection against Ballistic and Blast threats. Protection against 7.62 x 39mm fired from 30 m Protection against 06 Kg Explosive mass under the hull.
Construction	Monocoque Hull (No chassis based)
Engine	450 HP
Power To Weight Ratio	25 kw/Ton
Ground Clearance	350 mm
Max Speed	100 kmph On Road 45 kmph Off Road
Payload	1.5 Tons
GVW	12.5 Ton
Kerb Weight	<11.0 Ton
Tyres	365/85 R20 Tyres with Run Flat & CTIS
Electrical Systems	12 V
Cruising Range	500 Km (On Road) 300 Km (Off Road)





Kalyani M4

Multi Role, Highly Dynamic,
Mine Protected
Armour Personnel Carrier

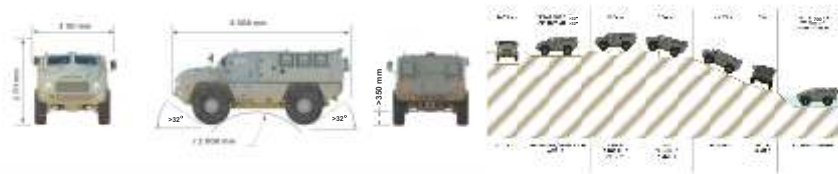
Kalyani M4

Multi-role, Highly Dynamic Mine-protected Armoured Vehicle

- Multi-role platform
- Innovative flat floor design
- Indigenously developed Independent suspension
- Proven reliable drivelines in-service
- Continuous operation from - 20° to + 50° Celcius

Additional Features

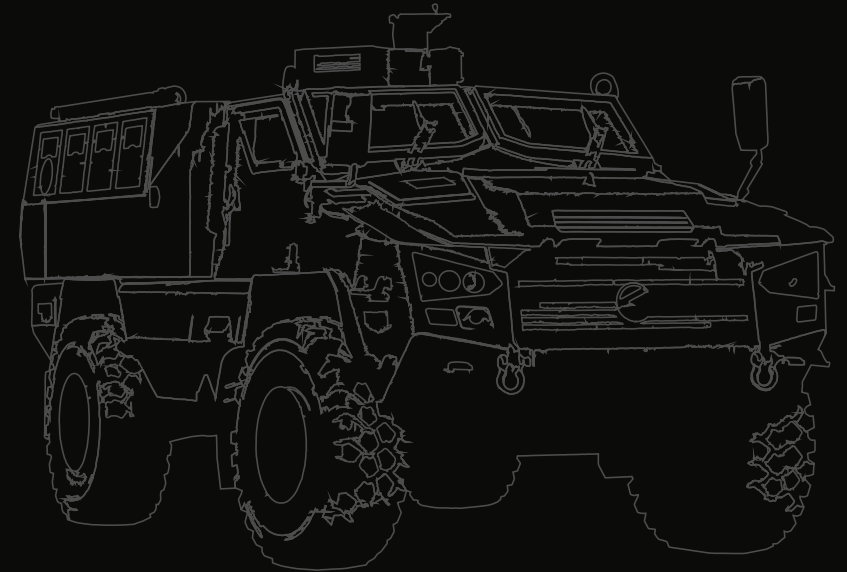
- Run Flat Inserts (RFI)
- Central Tyre Inflation System (CTIS)
- Radios, Intercom Systems
- Battlefield Management Systems (Optional)
- Winch
- Public Address System (Optional)
- Fire Suppression Systems
- Roof Hatches
- Vehicle Location and Tracking System
- Driver Assist Camera System
- Add-on armour kits
- 360° Rotating Turrets



Kalyani M4

GENERAL SPECIFICATIONS

Protection Level	STANAG III 50 KG TNT Side Blast 10 KG under the hull	STANAG II 10KG TNT Side Blast 10 KG under the hull	STANAG I 10KG TNT Side Blast 2 Hand grenades under hull
Construction	Monocoque Hull (Not Chassis based)	Monocoque Hull (Not Chassis based)	Monocoque Hull (Not Chassis based)
Crew	(2+1+4) (2+1+6) (2+1+8)	(2+1+4) (2+1+6) (2+1+8)	(2+1+4) (2+1+6) (2+1+8)
GVWR	16.5 Tons	13 Tons	12 Tons
Kerb Weight	14.5 Tons	11 Tons	10 Tons
Payload	2 Tons	2 Tons	2 Tons
Wheelbase	3300mm	3300mm	3300mm
Max Speed-Road	140km/h (Burst speed)	140km/h (Burst speed)	140km/h (Burst speed)
Turning Circle	18 m kerb to kerb	18 m kerb to kerb	18 m kerb to kerb
Road Range	500 km	500 km	500 km
Engine	Turbo Diesel 6 Cylinder, Intercooled, 334kW, 1643Nm	Turbo Diesel 6 Cylinder, Intercooled, 334kW, 1643Nm	Turbo Diesel 6 Cylinder, Intercooled,334kW, 1643Nm
Power to Weight Ratio (kW/ton)	22kW/T	26kW/T	28kW/T
Transmission	Automatic 6 speed	Automatic 6 speed	Automatic 6 speed
Diff Locks	Air Operated Front, Centre and Rear	Air Operated Front, Centre and Rear	Air Operated Front, Centre and Rear
Brakes	Pneumatic, disc, ABS standard	Pneumatic, disc, ABS standard	Pneumatic, disc, ABS standard
Tyres	16.00 R20	16.00 R20	16.00 R20
Air conditioner	12kW	12kW	12kW
Electrical System	24V	24V	24V





LAPV

Multi-Role, Highly Dynamic,
Mine Protected,
Light Armoured Personnel Vehicle

LAPV

- 4x4/4x2 Independent Suspension Armoured Vehicle
- Enhanced power-to-weight ratio
- Ballistic Protection up to STANAG II
- Continuous operations from -20°C to 45°C
- Innovative flat floor design

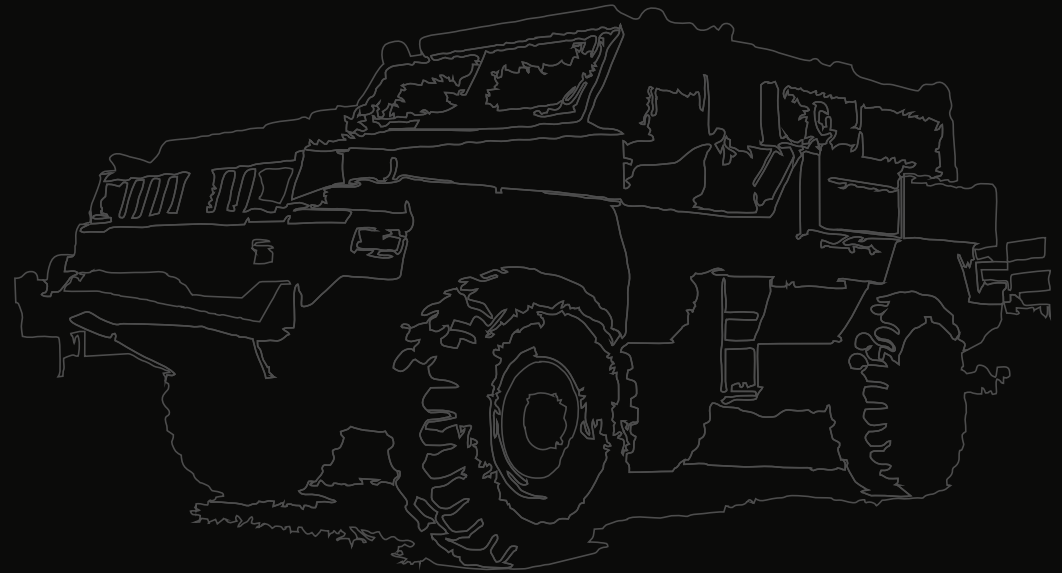
Additional Features

- Driver Assist Camera System
- Central Tyre Inflation System (CTIS)
- Automatic Fire Detection & Suppression system (AFDSS)
- Cargo Compartment
- Roof Hatches
- Vehicle Location and Tracking System
- Independent Suspension for All Four Wheels
- Pneumatic Disc Brakes with ABS with Hill Hold Assist

Light Armoured Personnel Vehicle

GENERAL SPECIFICATIONS

Vehicle Type	Monocoque
Engine	210 kW
Transmission	Automatic
Turret	Roof Mounted 360 deg Rotating Turret
Armament	Universal Weapon Mount - 7.62mm MMG/ LMG
Max speed	Flat Road: 100 kmph, Cross Country: 40 kmph
Operation Range	Min 500 km
Ballistic Protection	STANAG level 2 - Crew Compartment
Blast Protection	STANAG level 3
Special Feature	Central Tyre Inflation System (CTIS) Run Flat System (RFS) Self Fire Extinguishing System
Suspension	All Wheel Independent Suspension
Payload	Max 1500 kg including Cargo compartment
Crew	Max 2 + 8





Kalyani Maverick

World Leading Armour
Troop Carrier

Kalyani Maverick World-leading Armour Troop Carrier

- Extremely high ballistic protection
- Non-aggressive appearance
- Large internal volume
- Fully customisable due to “open architecture” design
- Excellent levels of situational awareness
- Supreme on and off-road mobility

Additional Features

- Run Flat Inserts
- Central Tyre Inflation System (CTIS)
- Radios, Intercom Systems
- Public Address System
- Fire Suppression System
- Vehicle Location and Tracking System
- Driver Assist Camera System



Kalyani Maverick

GENERAL SPECIFICATIONS

Protection Level	STANAG III 50 KG TNT Side Blast 2 Hand grenades under hull	STANAG II 10KG TNT Side Blast 2 Hand grenades under hull	STANAG I 10KG TNT Side Blast 2 Hand grenades under hull
Construction	Monocoque Hull (Not Chassis based)	Monocoque Hull (Not Chassis based)	Monocoque Hull (Not Chassis based)
Crew	(2+1+8)	(2+1+8)	(2+1+8)
GVWR	15.5 Tons	12.5 Tons	10.5 Tons
Kerb Weight	14 Tons	11 Tons	9 Tons
Payload	1.5 Tons	1.5 Tons	1.5 Tons
Wheelbase	3180 mm	3180 mm	3180 mm
Max Speed-Road	110km/h (Burst speed)	110km/h (Burst speed)	110km/h (Burst speed)
Turning Circle	16.5 m kerb to kerb	16.5 m kerb to kerb	16.5 m kerb to kerb
Road Range	700 km	700 km	700 km
Engine	Turbo Diesel 6 Cylinder, Intercooled, 210kW, 970 N-m	Turbo Diesel 6 Cylinder, Intercooled, 210kW, 970 N-m	Turbo Diesel 6 Cylinder, Intercooled, 210kW, 970 N-m
Power to Weight Ratio (kW/ton)	14kW/T	17kW/T	20kW/T
Transmission	Automatic 6 speed	Automatic 6 speed	Automatic 6 speed
Transfer case	2 speed	2 speed	2 speed
Diff Locks	Air Operated Front, Centre and Rear	Air Operated Front, Centre and Rear	Air Operated Front, Centre and Rear
Brakes	Pneumatic, disc, ABS standard	Pneumatic, disc, ABS standard	Pneumatic, disc, ABS standard
Tyres	365/85 R20 or 395/80 R20	365/85 R20 or 395/80 R20	365/85 R20 or 395/80 R20
Air conditioner	13 kW	13 kW	13 kW
Electrical System	24V	24V	24V





Mine Protected Vehicle

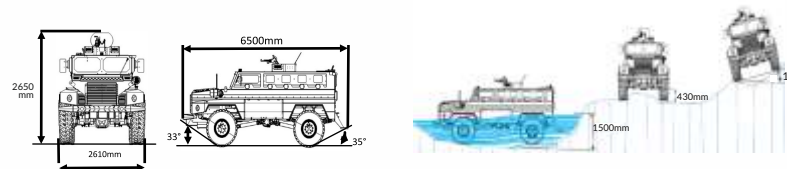
Class III

Mine Protected Vehicle

- Rugged & proven Military Vehicle platform tested by Indian Army.
- High levels of protection up to STANAG III
- Go anywhere with supreme cross-country performance.
- 14Kgs TNT Blast Protection under hull 21 Kgs TNT blast under any wheels.
- 360 degree rotating armored turret with Modular weapon mounts.

Additional Features

- Central Tyre Inflation System (CTIS)
- Radios, Intercom Systems
- Run Flat Inserts (RFI)
- Self-recovery winch
- Armored replaceable windows
- Side wall suspended seats
- Fire resistant paint
- Full air Dual line brakes
- All Terrain Tyres
- Auto Fire Extinguishing & Explosion Suppression System in Fuel Tank
- Inter-axle and inter wheel differential lock



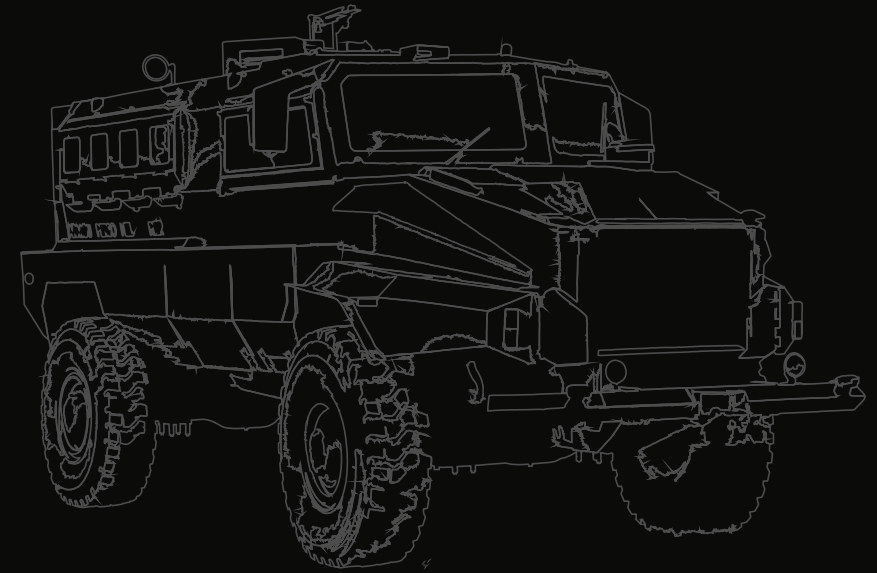
Mine Protected Vehicle

GENERAL SPECIFICATIONS

	STANAG III 50KG TNT Side blast 14 & 21 kgs TNT under hull and wheel	STANAG III 10kg TNT Side blast 10kg under the hull	STANAG I 10kg TNT Side blast 2 hand grenades under hull
Crew	Min 2+8	Min 2+8	Min 2+8
Kerb Weight	13000 Kg	11000 Kg	10000 Kg
Payload	1000 Kg	1000 Kg	1000 Kg
Wheelbase	3580	3580	3580
Combat Weight -GVW	14000 Kg	12000 Kg	11000 Kg
Construction	Monocoque	Monocoque	Monocoque

PERFORMANCE

Max Speed-Road	>110Km/h	>110Km/h	>110Km/h
Turning Circle	8.5	8.5	8.5
Road Range	Min 800 km	Min 800 km	Min 800 km
Engine	Turbocharged Liquid- Cooled, V8 280 HP	Turbocharged Liquid- Cooled, V8 280 HP	Turbocharged Liquid- Cooled, V8 280 HP
Power to Weight Ratio (kW/ton)	20 Kw/T	23 Kw/T	25 Kw/T
Transmission	Manual /Automatic 9 speed, reverse	Manual /Automatic 9 speed, reverse	Manual /Automatic 9 speed, reverse
Air Portability	Yes: by C-130 or MI-26	Yes: by C-130 or MI-26	Yes: by C-130 or MI-26
Firing Ports	Min 12 Nos	Min 12 Nos	Min 12 Nos
Tyres	14 R x 20	14 R x 20	14 R x 20
Air conditioner	22°C ±5°C	22°C ±5°C	22°C ±5°C
Electrical System	24V	24V	24V
Ballistic Protection	Minimum Stanag level 2 *Upgrade to Stanag 3&4 (Optional) 7.62 x 39AP (WC core),	Minimum Stanag level 2 *Upgrade to Stanag 3 & 4 (Optional) 7.62 x 39AP (WC core),	Minimum Stanag level 2 *Upgrade to Stanag 3 & 4 (Optional) 7.62 x 39AP (WC core),
Blast Protection	IED protection - 10 kg TNT under hull & @ 3 meters from side blast.	IED protection - 10 kg TNT under hull & @ 3 meters from side blast.	IED protection - 10 kg TNT under hull & @ 3 meters from side blast.





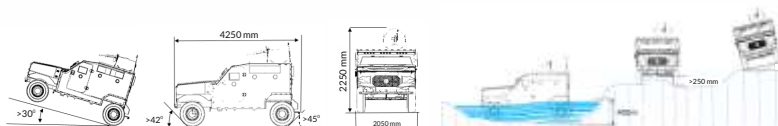
Light Bullet Proof Vehicle

L.B.P.V.

- Go Anywhere Vehicle.
- Supreme Cross Country Performance.
- 360 degree Rotating turret with Weapon mounting station.
- 4x2 & 4X4 wheel drive.
- Successfully tested and evaluated by Indian Army.

Other Features

- Central Tyre Inflation System (CTIS)
- Radios, Intercom Systems
- Run Flat Inserts (RFI)
- Self-recovery winch
- Armored replaceable windows
- Fire resistant paint
- ABS
- Blast resistant Seat with Foot Stand (Optional)
- Self Fire Extinguishing System



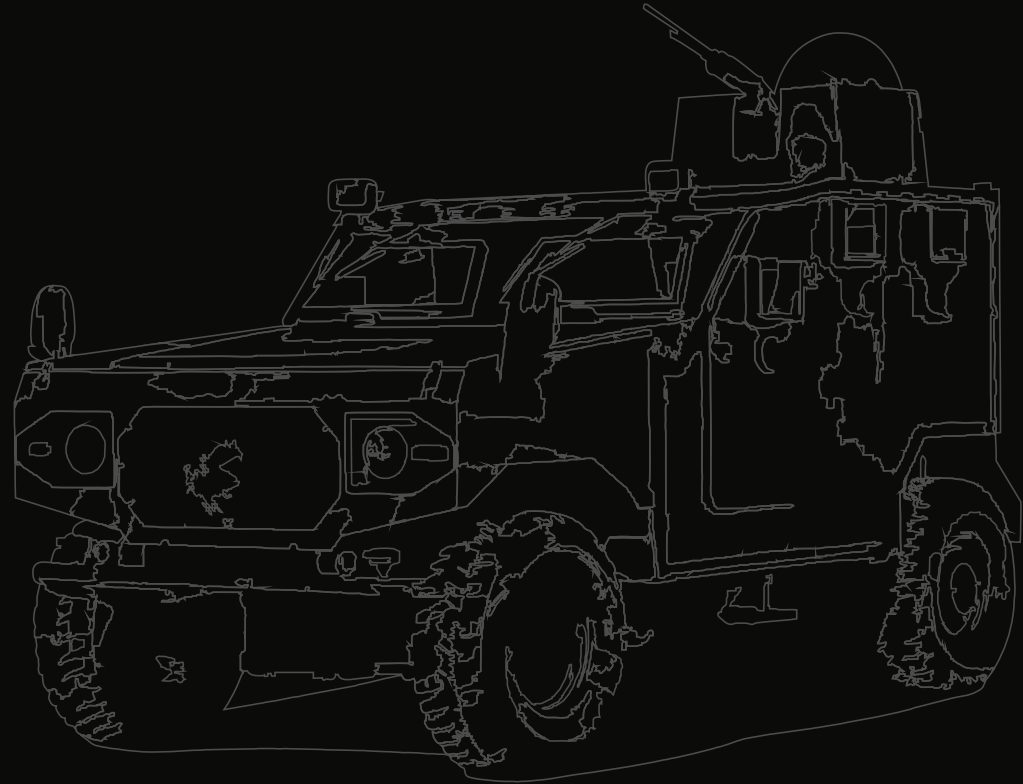
Light Bullet Proof Vehicle

GENERAL SPECIFICATIONS

Crew	Min 2+4
Kerb Weight	<3700 kg
Payload	Min 1000 kg
Wheelbase	3000-3400mm
Combat Weight-GVM	Min 6000 Kg
Construction	Frame Rail Chassis

PERFORMANCE

Max Speed-Road	>110Km/h
Turning Circle	8.0 m
Road Range	Min 400 km
Engine	6 Cylinder
Power to Weight Ratio (kW/ton)	>25 Kw/T
Transmission	Automatic 4 speed, reverse
Operating Temperature	-20°C to +55°C
Firing port holes	Minimum 4 on sides and two in rear
Tyres	37 x 12.5 R17
Air Portability	AN 32 and IL-76
Electrical System	12/24V
Ballistic Protection	Stanag (1) & (2)
Blast Protection	Stanag 1(A) & 2(B)





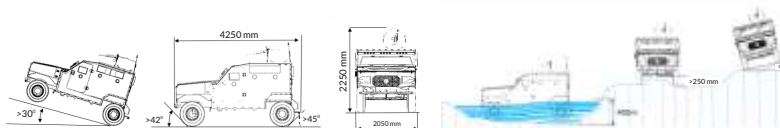
Light Tactical Vehicle

LTV

- Go Anywhere Vehicle
- Supreme Cross Country Performance
- 360 degree Rotating turret with Weapon mounting station
- 4x2 & 4X4 wheel drive
- Successfully tested and evaluated by Indian Army
- Dedicated Cargo Compartment

Other Features

- Central Tyre Inflation System (CTIS)
- Radios, Intercom Systems
- Run Flat Inserts (RFI)
- Self-recovery winch
- Armored replaceable windows
- Fire resistant paint
- ABS
- Blast resistant Seat with Foot Stand (Optional)
- Self Fire Extinguishing System



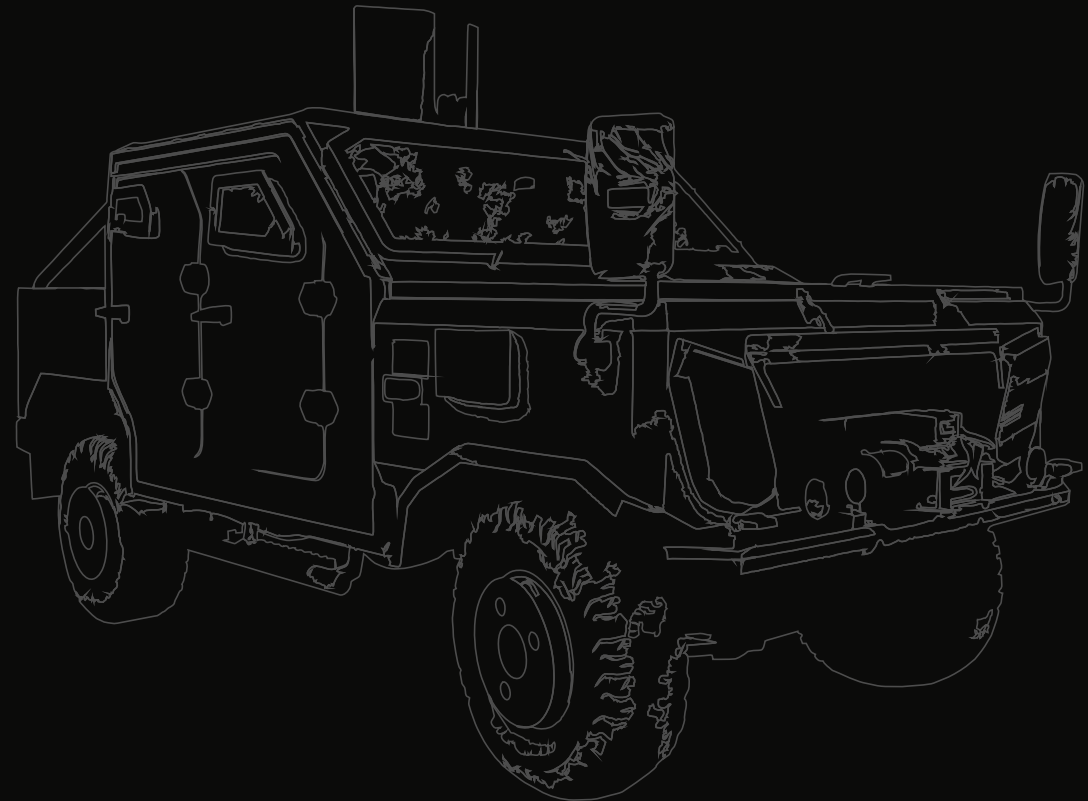
Light Tactical Vehicle

GENERAL SPECIFICATIONS

Crew	4
Kerb Weight	<3700 kg
Payload	1500 kg
Wheelbase	3600mm
Combat Weight-GVM	6000 Kg
Construction	Frame Rail Chassis

PERFORMANCE

Max Speed-Road	>110Km/h
Turning Circle	8.0 m
Road Range	Min 400 km
Engine	6 Cylinder
Power to Weight Ratio (kW/ton)	>25 Kw/T
Transmission	Automatic 4 speed, reverse
Operating Temperature	-20°C to +55°C
Firing port holes	Minimum 4 on sides and two in rear
Tyres	37 x 12.5 R17
Air Portability	AN 32 and IL-76
Electrical System	12/24V
Ballistic Protection	Stanag (1)
Blast Protection	Stanag 1(A)



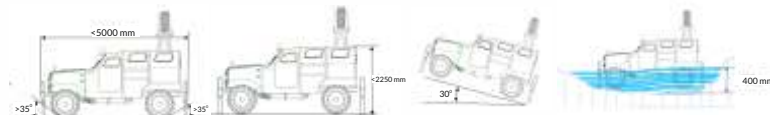


Light Specialist Vehicle

STANAG (CLASS I & II)

LSV

- Go Anywhere Vehicle.
- Supreme Cross Country Performance.
- 360 degree Rotating turret with Weapon mounting station.
- 4x2 & 4X4 all-wheel drive.



Other Features

- Central Tyre Inflation System (CTIS)
- Radios, Intercom Systems
- Run Flat Inserts (RFI)
- Self-recovery winch
- Armored replaceable windows
- Transportable by standard Rail racks & By IL -76 and AN 32 aircraft.
- Fire resistant paint
- ABS Brakes
- Blast Resistant Seat with foot stand (optional)
- Self-Fire extinguishing System

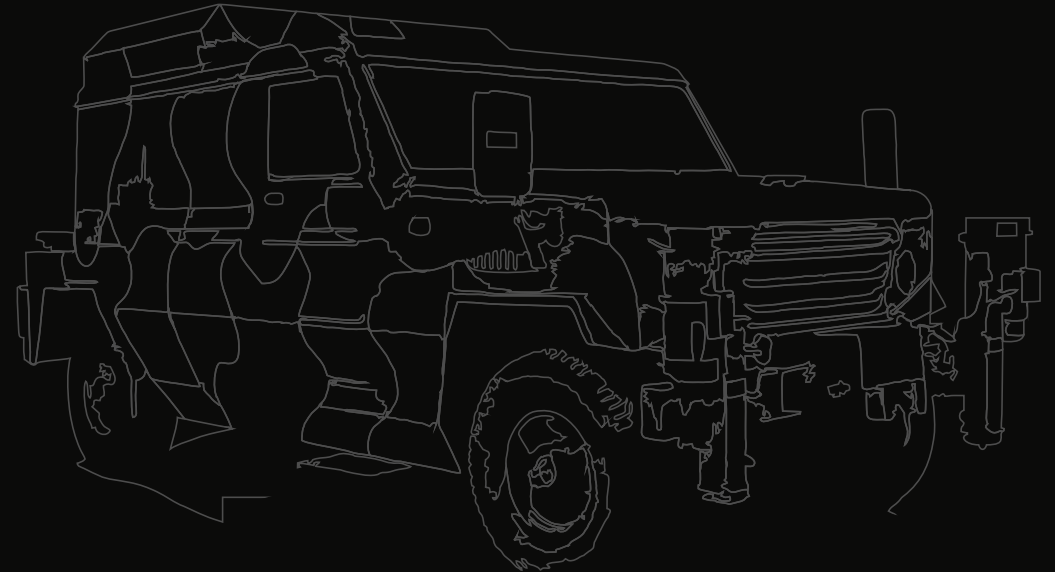
Light Specialist Vehicle

GENERAL SPECIFICATIONS

Crew	3
Kerb Weight	<4000 kg
Payload	Min 1000 kg
Wheelbase	3000-3400mm
Combat Weight-GVM	6000 Kg
Construction	Frame Rail Chassis

PERFORMANCE

Max Speed-Road	>110Km/h
Turning Circle	7.5 m
Road Range	Min 400 km
Engine	6 Cylinder
Power to Weight Ratio (kW/ton)	>25 Kw/T
Transmission	Automatic 4 speed, reverse
Operating Temperature	-20°C to +55°C
Firing port holes	Minimum 4 on sides and two in rear
Tyres	37 x 12.50 R 17
Electrical System	12V / 24V





DRIVE AWAY CHASSIS

Power Train

- Engine Euro 3
- Suspension (Independent or Rigid)
- Automatic Transmission
- Transfer Case/CTIS
- ABS Brake System
- HVAC
- Power Steering
- Differential lock
- Tubeless Tyres with Bead Lock
- PTO

Protection

(on Armour Capsule) STANAG-1 to STANAG-3 (a&b)
Run Flat Inserts

Electrical / Electronics

- Surveillance systems
- Self Diagnostic System
- Navigation System
- Winch (Electrical & Hydraulic)
- Blackout Lighting
- Cold Cranking System

DRIVE AWAY CHASSIS

SPECIFICATIONS	TC09	DAC14	RC20	RC24	RC30
Engine	6.7L, 285 HP @2500 RPM	6.7L, 285 HP @2500 RPM	8.9L, 450 HP @ 2200 RPM	8.9L, 450 HP @ 2200 RPM	8.9L, 450 HP @ 2200 RPM
Transmission	Automatic	Automatic	Automatic	Automatic	Automatic
Transfer Case	2 speed - Direct Mount	2 speed - Remote Mount	2 speed - Remote Mount	2 speed - Remote Mount	2 speed - Remote Mount
Drive	4x4	4x4	4x4	4x4	6x6
Axle	Independent axles	Rigid Axles	Independent axles	Rigid Axles	Rigid Axles
Tires	365/85 R20 tubeless tires	365/80 R20 tubeless tires	16.00 R20 tubeless tires	16.00 R20 tubeless tires	14.00 R20 tubeless tires
Wheel Rim	Aluminum split wheel rim	Steel Wheel Rim	Steel Wheel Rim	Steel Wheel Rim	Steel Wheel Rim
Fuel Tank Capacity	200 Litre	120 Litre	260 Litre	380 Litre	380 Litre
Chassis	Ladder Frame - Bolted	Ladder Frame - Bolted	Ladder Frame - Bolted	Ladder Frame - Bolted	Ladder Frame - Bolted
HVAC	Available	-	Available	Available	Available
Electrical System	24 Volts	24 Volts	24 Volts	24 Volts	24 Volts
DIMENSIONS & WEIGHTS					
Overall Length	< 6000 mm	< 6400 mm	< 9000 mm	< 8800 mm	< 9800 mm
Overall Width	2500 mm	2650 mm	2850 mm	2850 mm	2850 mm
Wheelbase	3800 mm	3800 mm	4500 mm	4800 mm	5250 mm
Wheeltrack	2040 mm	2274 mm	2210 mm	F: 2138 mm / R: 2104 mm	F: 2138 mm / R: 2104 mm
Ground Clearance	> 300 mm	> 300 mm	> 350 mm	> 350 mm	> 350 mm
Kerb Weight	5500 kg	5500 kg	10500 kg	13000 kg	14500 kg
GVW	9000 kg	14000 kg	22000 kg	24000 kg	30000 kg
PERFORMANCE					
Max Speed	> 100 km/h	> 80 km/h	> 60 km/h	> 60 km/h	> 60 km/h
Gradeability	30°	30°	25°	20°	20°
Side Slope	17°	17°	15°	15°	15°
Fording Depth	500 mm	700 mm	700 mm	700 mm	700 mm
Turning Circle Diameter	< 20 m	< 20 m	< 22 m	< 22 m	< 24 m
Operating Temperature	-20°C to 55°C	-20°C to 55°C	-20°C to 55°C	-20°C to 55°C	-20°C to 55°C
Protection			STANAG 2	STANAG 1	STANAG 1

Medium & Large Caliber*



Shells of various types 70 - 155mm



GP Bomb 500kg



Artillery Shell
155mm ER



Artillery Shell
155mm: M107



Artillery Shell
155mm



Mortar Bodies
120mm



Rocket Warhead
70mm



Shell Body
40mm



Rocket Warhead
(Fragment version) 70mm



FSAPDS 120mm



*Ready to Fill Shells



CQB Carbine

5.56 X 45 mm

"Designed & Developed by ARDE" and "Manufactured by Kalyani Group". 5.56 x 45 mm Carbine is lightweight, compact, effective weapon used in close combat CI/CT operations. It is developed to meet the requirements of the Law enforcement forces and Indian Defence forces in close-quarter conflicts.

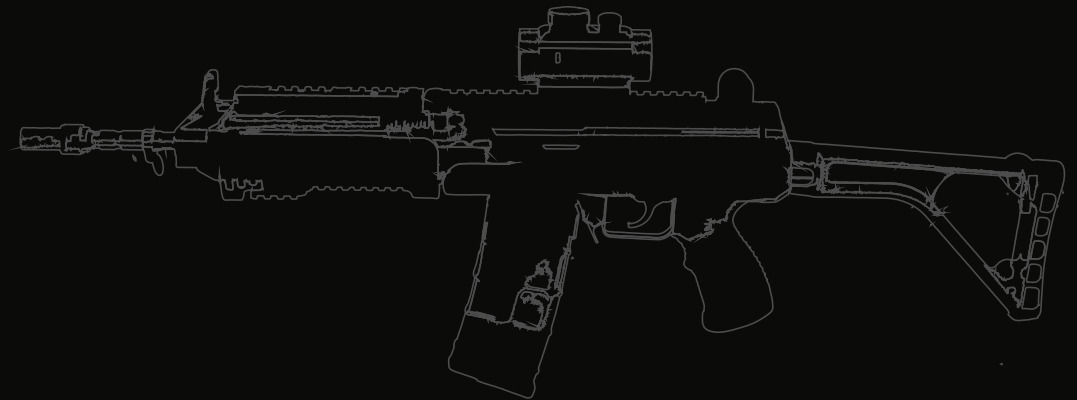
Main Features

- Carbine 5.56 x 45mm weapon is being developed & manufactured for DRDO
- Only private industry manufacturing complete weapon for DRDO



CQB Carbine 5.56 x 45 mm

SPECIFICATIONS	Carbine
Calibre, mm	5.56 x 45
Weight (without Magazine), kg	< 3.3
Length (Butt Extended), mm	800
Length (Butt Retracted), mm	650
Operation	Gas Operated, Rotating Bolt
Barrel Length, mm	300
No. of Grooves	6
Rifling	1 in 200 , RH
Effective Range, m	200-300
Magazine capacity	30 Rounds
Modes of Fire	Single Shot, Short Burst, Safe
Rate of Fire, rmp	600-700
Safety	Mechanical and Applied





Protective Carbine

5.56 X 30 mm

Protective Carbine a unique calibre weapon for short range operations. Its low recoil provides stabilized firing during rapid firing and can be fired by single hand which is most suitable for concealed area operations

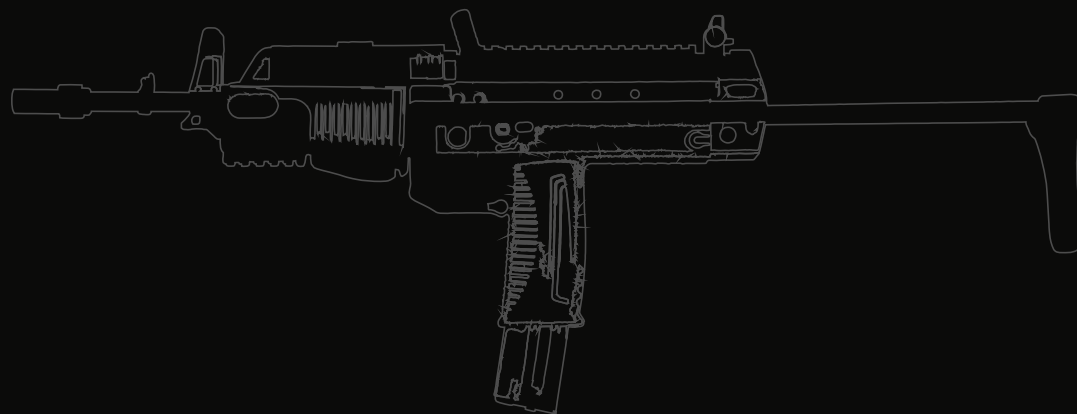
Main Features

- Protective Carbine 5.56 x 30mm weapon is being developed & manufactured for DRDO
- Only private industry manufacturing complete weapon for DRDO

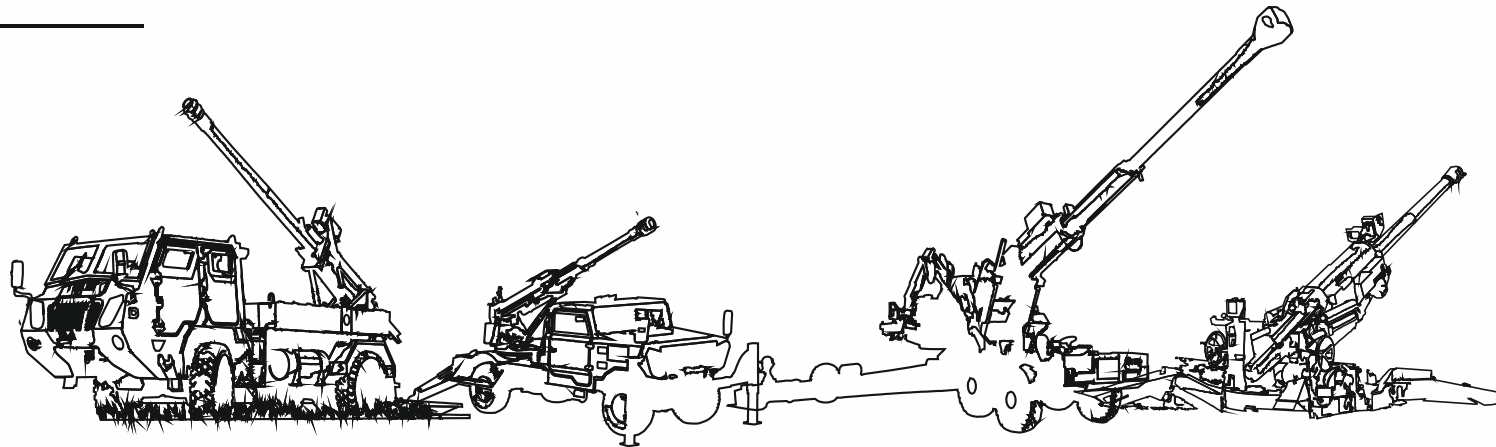


Protective Carbine 5.56 X 30 mm

SPECIFICATIONS	Protective Carbine
Calibre, mm	5.56
Cartridge, mm	5.56 x 30
Barrel Length, mm	300
Overall length close stock, mm	550
Overall length open stock, mm	750
Firing Mode	Single and automatic
Effective Firing Range, m	200-300
Rate of fire, round/min	700-900
Magazine capacity, rounds	30
Weight (carbine only), kg	< 3
Weight (carbine with full magazine), kg	3.65
Principle of Operation	Gas operated, Rotating bolt



ARTILLERY



Ordnance

All NATO Standard Ordnances
76mm to 155mm from 27 to 52 cal

Recoil System Upgrade
Breech, Muzzle Brake & Other
Spares

Integration to Network Centric Warfare

Situational Awareness with
use of UAVs

AI based Target Detection
“Software Defined Gun”

Mobility Solutions

Mounted / Self-propelled
solutions for Towed Guns

Steer-by-wire Integration
Closed Loop Hydro-static Drives

Electronic Suite

INS, EO Sight, MVR Integration
Customer protocol based
Communication Suite

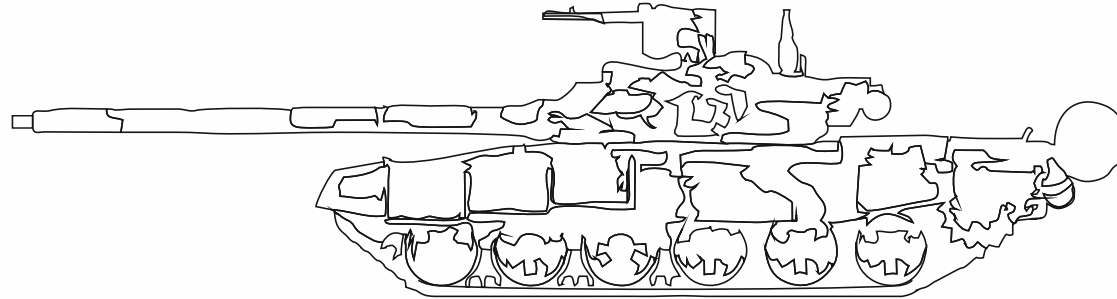
Upgraded Range

Higher Caliber Barrel Integration
Long Range Ammunition
Precision Ammunition

Automation

Automated Hydraulic / Electric
Laying & Loading Solutions
BIT-AI Driven predictive
maintenance

ARMoured VEHICLES



Running Gear

- Road Wheel
- Tracks
- Sprocket
- Road Wheel arm
- Supporting Wheel
- Suspension

Ordnance

- Barrel (100mm, 120mm & 155mm)
- Breech
- Muzzle brake

Powertrain

- Crankshaft
- Connecting Rod
- Turbocharger / Supercharger
- Cylinder Liners

Ammunition

- 100mm to 155mm Shells
(Only empties)
- Kinetic Ammunition FSAPDS

MRO

- Maintenance, Repair & Overhaul of all armoured vehicles platform

Driveline

- Gearbox



105mm Light Tank Turret

Main armament	High pressure NATO 105mm x 52mm Rifled main gun
Maximum Effective Range	5000 mtr .
Rate of fire (min)	6 Rounds/min, Electronically controlled dual autoloader, 12 Ready to fire rounds
Firing modes	Single shot, Burst, Rapid fire
Protection	APS soft-kill based on multi-spectral grenade launchers and directional jamming gun mounted coaxially to the RCWS 12.7 MG
Arc of traverse/elevation	n x 360° / -10° - +30°
Secondary armament	7.62 x 54 PKT- Independently stabilized 12.7 RCWS Barrel launched ATGM, barrel launched loitering munition
EOS	Identical Commander/ Gunner sight- (Hunter/Killer) Independent dual axis stabilized day/night DRI- 8/5/4 km
Ballistics protection	Stanag III



30mm Naval Systems Turret

Main armament	Bushmaster Mk44, NATO 30X 173mm - Twin feed
Maximum Effective Range	Effective Range: 1800 m. Maximum Range: 4000 m.
Rate of fire (min)	200 RPM, 200 Ready to fire rounds- Automatic belted dual feed
Firing modes	Single shot, Burst, Rapid fire
Arc of traverse/elevation	± 170° / -25°- +70°
EOS	Cooled IR images Independent dual axis stabilized day/night DRI-8/5/4 km
Ballistics protection	Stanag III



20mm Aerial Systems Turret

Main armament	20 x 104mm
Maximum Effective Range	Effective Range: 500- 1500mm
Rate of fire (min)	800 RPM, 300 Ready to fire rounds- Automatic belted feed
Firing modes	Single shot, Burst, Rapid fire
Arc of traverse/elevation	± 110° / -50°- +20°



30mm Land Turret

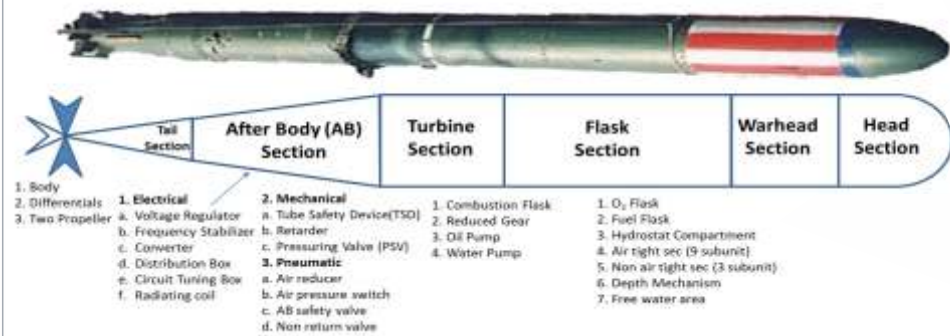
Main armament	30X 165mm- Twin feed- HE/AP/APFSDS
Maximum Effective Range	Effective Range: 2000 m. Maximum Range: 4000 m.
Rate of fire (min)	Slow- 200/ Rapid- 500 RPM, 300 Ready to fire rounds- Automatic belted dual feed
Firing modes	Single shot, Burst, Rapid fire
Protection	LASER detection & counter measure system
Arc of traverse/elevation	n x 360° / -5° - +65°
Secondary armament	7.62 x 54 PKT- 1000 Ready to fire rounds, Independently stabilized 12.7 RCWS ATGM launchers
EOS	Identical Commander/ Gunner sight- (Hunter/Killer) Independent dual axis stabilized day/night DRI- 8/5/4 km
Ballistics protection	Stanag III

MARINE

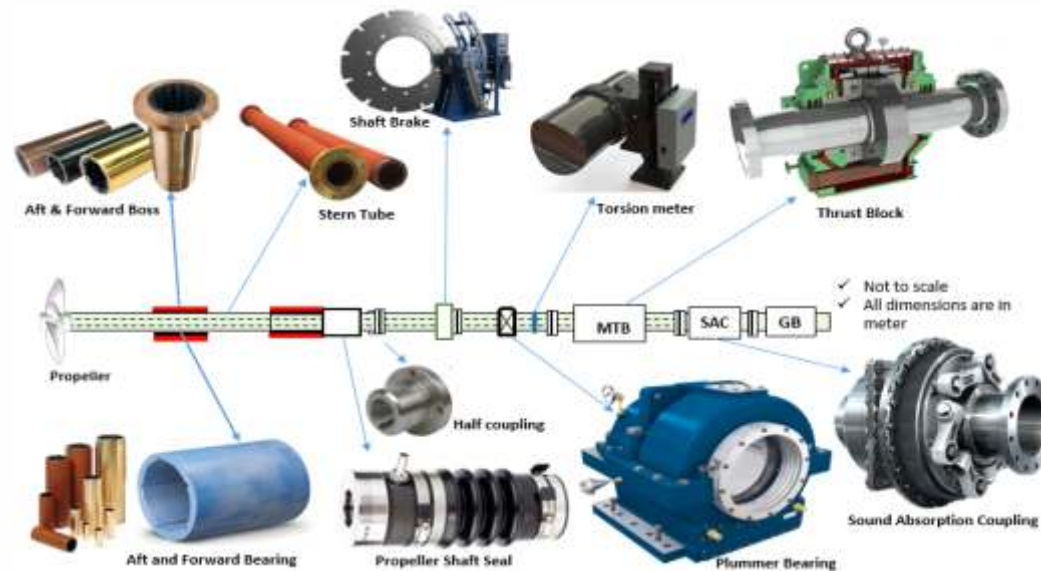
AREAS OF FOCUS



Upgraded Homing Heads for Torpedoes



Spares Management & MR Services for Torpedoes



Marine Engineering Systems

UUWS-PLATFORMS

Mine Reconnaissance AUV (MRAUV)



- 2200mm x 150mm; 35 kgs; upto 300m max depth; Endurance = upto 7 hours at 3 knots
- Side Scan Sonar (SSS) for seabed survey
- Communication System: Wi-fi modem, GPS, UHF, AIS & Iridium
- Navigation System: INS, GPS, Pressure sensor, Doppler Velocity Log, Obstacle Avoidance Sonar

Expendable Underwater Target (EUT)



- For undertaking Anti-Submarine Warfare training at sea
- 1456mm x 127mm; 50 kgs; upto 150m max depth; Endurance = upto 4 hours at 3-5 knots
- Simulates Submarine for torpedo firings & training for ship SONAR & HELO Dunking SONAR.
- Active self-propelled unit launched from Ships or Helicopters

Mobile Target Emulator (MTE)



- Simulates a Target Submarine during war Scenarios as Active DECOY
- 1250mm x 127mm; 28 kgs; upto 400m max depth; Endurance = upto 10 minutes
- Anti -torpedo countermeasure system capable of being fired from existing submarine launching tube
- Active self-propelled unit launched from Submarine

UAV-PLATFORMS



Multi Rotor (VTOL)

- Maximum Take off weight 150 Kg
- Multi-pay load, Multi-mission drone
- Rapid deployment-Plug and fit assembly
- Small Logistic Footprint - Easy to Operate and Maintain
- Multi Payload Capability - Heavy Weight Logistic Payloads
- Flexible and modular with fast payload swap

Fixed Wing

- Autonomous, mechanically and electronically Stabilized
- Short Take off (Take off within 10 meters)
- Fail Safe - Parachute Recovery system available
- Applications
 - Surveillance and Mapping
 - Small Package delivery (up to 5kg) for long distance
 - Search and Rescue

Fixed Wing - VTOL (Hybrid)

- Maximum take-off weight 130kg
- Vertical take-off & Landing
- Max service ceiling : 6500m
- Payload capacity : 30Kg (Excluding optical payload)



UGV



ECARS

Enhanced Collaborative Autonomous
Rover System

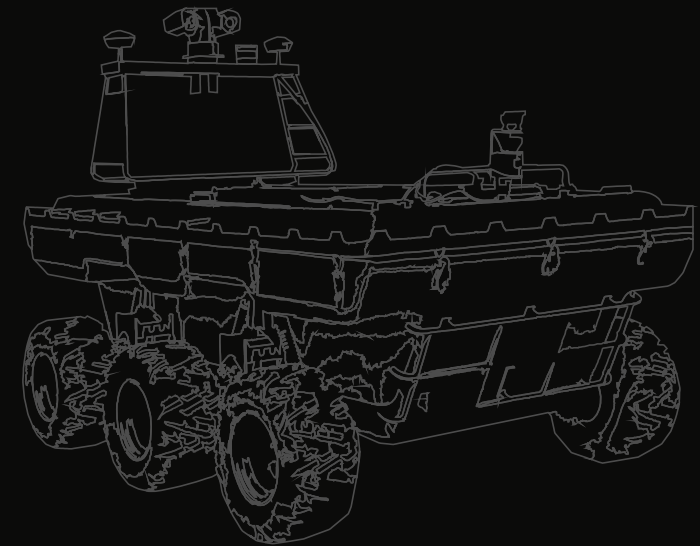
- 4 & 6 wheeled multi-terrain unmanned ground vehicle (UGV)
- ECARS is designed to perform surveillance, security, safety and rescue missions
- ECARS is armed with enhanced collision avoidance system, missions planning. ECARS 6x6 can also be operated as an amphibious vehicle

- UGV can be used with systems like RCWS, Water Jet machines and transportation of heavy material across border/water channels
- ECARS applications are Border surveillance, strategic Asset perimeter security, Riot control operations, CBRN, Fire-Fighting or Chemical Spray, carrying payload requirements

ECARS

ENHANCED COLLABORATIVE AUTONOMOUS ROVER SYSTEM

SPECIFICATIONS	ECARS-1 (4x4)	ECARS-11 (6x6)
Weight	<800Kg	1150 Kg
Payload	350Kg	400 Kg
Towing Payload	500Kg	1500Kg
Maximum Speed	16-20Kmph	16-20Kmph
Max Gradient	30°	30°
Step to be climbed	220mm	264mm
Type of terrains	Multi-terrain	Plain, Concrete, Sand, Mud, Cross country
Power Medium	Li-Ion phosphate (48V, 100 Ah)	NMC Battery (72V, 150Ah)
Generator		6.3KW
Max Endurance	6-12 hrs. (hybrid)	48 hrs. (hybrid)
Ground Clearance	200mm	340mm
Operation Mode	Tele-operated & Autonomous	Tele-operated & Autonomous
Motor	Induction Motor	PMSM
Motor Capacity	5KW nominal & 12KW peak	12KW nominal & 30KW peak power
Dimension	2 x 1.8 x 1.8 meter	3 x 2.2 x 2.2 meter



COMBAT VEHICLES

Development Projects

Advanced Armoured Platform - Wheeled



8x8 Wheeled Vehicle platform

Systems	Parameters
Configuration	8x8
Engine	Diesel Engine with 600 Hp
Transmission	Automatic transmission
Transfer Case	Integrated 2nd axle
Axles	Independent
Suspension	Hydro pneumatic strut
Steering	Hydraulic assisted front two axle steerable
Wheels & Tyres	14R20
Amphibious	8 km/h at Sea state 3
Turret	30MM turret with autoloading system, RCWS, ATGM etc.

Indian Light Tank



Light Category Battle Tank

Systems	Parameters
Engine	Liquid Cooled, Diesel Engine, Max Power 750 hp upgradeable to 800 hp
Transmission	Automatic Cross Drive Transmission
Track	Rubber Track
Suspension	In Arm HSU
Steering	Mechanical Steering
Brakes	Mechanical Brakes
Road Wheels	12 stations Road wheels
Armament	105 Gun, 12.7 AAMG, 7.62 PKT Co axial
ATGM	Gun Tube Launched
Am. Loading	Automatic

Advanced Armoured Platform - Tracked



Tracked Vehicle platform

Systems	Parameters
Engine	Diesel Turbo Charged, Liquid Cooled Max Power 711 hp
Transmission	Automatic Transmission - Cross Drive
Road Wheels	12 Stations
Suspension	Hydro Gas Suspension (Hydro Strut)
Steering	Mechanical Steering
Brakes	Mechanical Brakes
Road Wheels	Dia. (650 mm) X Width (125mm)
Amphibious	8 km/h at Sea state 3
Turret	30MM turret with autoloading system, RCWS, ATGM etc.



KALYANI



KALYANI STRATEGIC SYSTEMS LIMITED



ARTILLERY SYSTEMS



PROTECTED VEHICLES



COMBAT VEHICLES



ROLLING CHASSIS



AMMUNITION



UNMANNED SYSTEMS



SMALL ARMS



MARINE SYSTEMS

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