

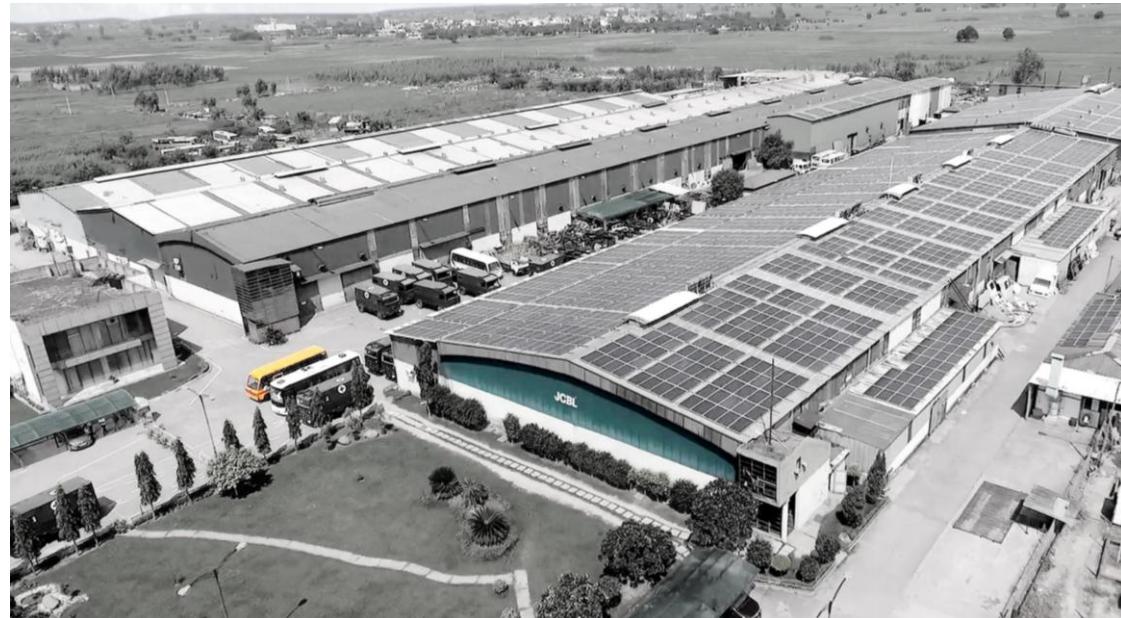
When inspired minds come
together,
miracles happen.



JCBL GROUP

The JCBL Group stands as a beacon of passion and inspiration. Established in 1989, we have transformed a bold vision into a dynamic reality, positively impacting the lives of over a billion individuals worldwide.

From initial foray into mobility solutions, today the Group has established a strong presence across key sectors of the economy, including Mobility Applications, Defence and Aerospace, Parts and Components for Railways, Buses and Industries, Agriculture and Measurement and Control Instruments.



- **35+ years**
- **8 Manufacturing Facilities**
- **216.87 million USD**
- **20% CAGR**
- **500+ Clients**
- **30+ Countries**
- **2.76 Million Square Feet Manufacturing Area**
- **3000+ Trained Professionals**

DIVERSE MANUFACTURING INTERESTS



Mobility Applications

- Passenger Transportation
- Special Application Vehicles
- Healthcare
- Logistics
- Mining and Construction



Parts & Components For Railways, Buses & Industries

- FRP/GRP
- Sheet Metal/Heavy Machinery/General Fabrication
- Seats
- Window Frames and Components



Defence & Aerospace Solutions

- Aerospace
- Maintenance Repair & Overhaul
- Combat System
- Land System



Measurement & Control Instruments

- Valves
- Compression Tube Fittings
- Custom Built Parts
- Manifolds



Agricultural Implements

- Land Preparation
- Seedbed Preparation
- Crop Residue Management



Redefining Possibilities with Our Pillars of Growth

INFRASTRUCTURE > TECHNOLOGY > R&D > PEOPLE > QUALITY

INFRASTRUCTURE



JCBL



JML



ADSL PARACHUTE FACILITY

Parachute Design & Production

Location: Haryana



ADSL SOUTH

Armoring, Design & Integration

Fabrication, Sheet Metal & Machining

Location: Chennai



ADSL NORTH

MRO, Aerospace, Design & Integration

Location: Punjab



MSL TECHNOFAB



MSL COMPOSITES



MSL SEATING SYSTEMS

TECHNOLOGY PARTNERS

JCBL stays ahead of the curve through continuous investment in research and development, cutting-edge technology and strategic collaborations with global market leaders, design houses, and engineering firms. Our strength lies in bringing together diverse, multidisciplinary teams that work in real time to tackle complex engineering challenges and deliver world-class tailor made solutions.

Sources of our Technologies:



Interior Systems – ELLAMP Systems, Italy



Composites – Stratiforme Industries, France



Remote Controlled Weapon System ROLUS, Slovakia



Seats – APM, Malaysia



Locks and Components HAPPICH, Germany

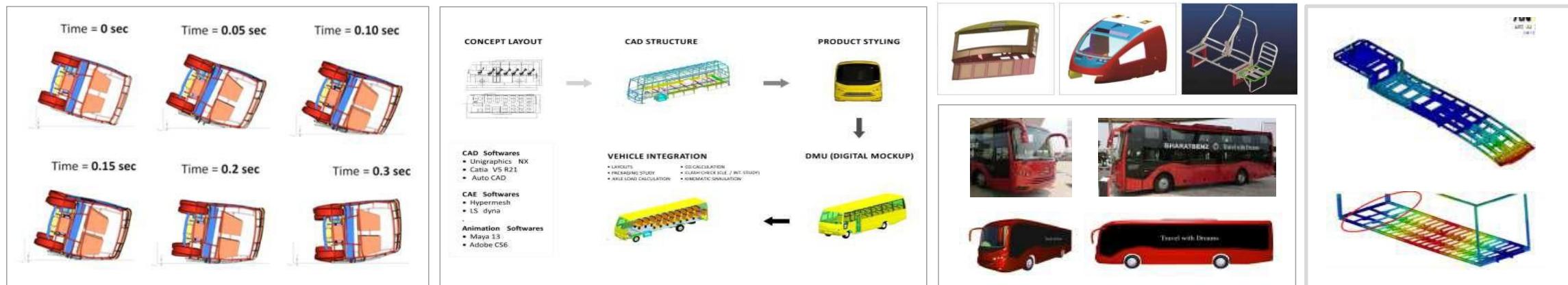


Loitering Munitions LEMONTRONIX GmbH, Germany

RESEARCH AND DEVELOPMENT

Constant focus on Research and Development has always been the core of our growth strategy and identity since 1989. We are proud to engineer solutions that can provide the highest quality, efficiency, and profitability for our customers.

- Concept Layout and Vehicle Design
- Architecture Styling and Interior Design
- Value Engineering
- Prototype Development and Testing
- Linear Static Analysis
- Kinematics
- Electrical Load Analysis
- In-house Fixtures/Tools & Gauges
- Finite Element Analysis (FEA)
- Failure Mode and Effects Analysis (FMEA)
- CMVR (Central Motor Vehicle Rules)
- Virtual Roll Over and Strength Analysis
- Advanced Product Quality planning
- Full Scale Solid Modeling
- Structure Analysis
- Computer Aided Design
- 3D Modelling
- Pattern & FRP Mould Manufacturing
- FRP Part Development for Indian Railways & Metros
- Material Testing at Independent Laboratories



PEOPLE

At JCBL, people are at the heart of everything we do. We believe our greatest strength lies in the diverse talents, ideas, and experiences of our teams. By fostering a culture of diversity, equity, and inclusion—and by prioritizing employee well-being, continuous learning, and workplace safety—we empower our people to thrive. This, in turn, enables us to deliver greater value to our clients.

GUIDING PRINCIPLES

- Trust and Transparency
- Mutual Respect
- Diversity and Inclusion
- Empowerment
- Safe Working Environment



QUALITY CONTROL SYSTEM

OUR QUALITY POLICY

We always remain committed towards total satisfaction of our Customers, Associates and Society at large through continual improvement in Quality Management System and the collective effort of all our employees.



IATF 16949



ISO 9001:2015



CMMI Level 3



ISO/IEC 27001:2013



EN ISO 3834-2:2005



EN 15085-2



AS 9100D



Registered with
Ministry of Defence–DGQA



Alberta Boilers Safety
Association Canada
CRN: 0C5141.2
CRN: 0a5283.2



TSSA, Canada
CRN: 0C514.25



IRIS 22163-2017



PESO Certified



LRQA Certified- International
Convention for Safe Container



ISO 9001:2000



STRIVING FOR A SAFER FUTURE



ADSL

For over 35 years, JCBL Group a trusted name in the industry, providing cutting-edge defence solutions across various applications.

Driven by our mission to design, manufacture, service, and upgrade strategic and tactical defence equipment, armoured vehicles, and aerospace technologies, we established Airbornics Defence & Space Private Limited. Today, ADSL is a leading force in Defence and Aerospace, specializing in the design, manufacturing, servicing, and upgrade of Aerospace systems, strategic Defence platforms, and Armoured Vehicles. Committed to the highest industry standards, ADSL is certified with ISO 9001:2015, IATF 16949:2016, ISO/IEC 27001:2013, CMMI Level 3, and AS 9100D for Aerospace QMS, ensuring excellence in every domain. Our mission is to deliver next-generation solutions that enhance precision, resilience and operational superiority for the Armed Forces.

At ADSL, we are not just manufacturing defence and aerospace solutions—we are engineering the future of security and aerospace.

CLIENTS

GOVERNMENT MINISTRIES

 रक्षा मंत्रालय MINISTRY OF DEFENCE	 गृह मंत्रालय MINISTRY OF HOME AFFAIRS	 स्वास्थ्य एवं परिवार कल्याण मंत्रालय MINISTRY OF HEALTH AND FAMILY WELFARE	 सड़क परिवहन एवं राजमार्ग मंत्रालय MINISTRY OF ROAD TRANSPORT AND HIGHWAYS
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DEFENCE AND AEROSPACE (Government Undertakings)

						
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OEMs

 BHARAT FORGE	 KALYANI	 TATA ADVANCED SYSTEMS	 Mahindra DEFENCE	 adani Defence and Aerospace	 Reliance
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STATES & STATE POLICE DEPARTMENT

ADSL INFRASTRUCTURE



ADSL NORTH

MRO, Aerospace, Design & Integration

Location: Punjab



ADSL SOUTH

Armoring, Design & Integration
Fabrication, Sheet Metal & Machining

Location: Chennai



ADSL Parachute Facility

Parachute Design & Production

Location: Delhi



ADSL Electronics Lab

Electronics Design & Development
Combat System Integration

Location: Delhi

NEXT GEN SOLUTIONS



Maintenance Repair & Overhaul

Modernization &
Localisation of ARVs:

- T72
- T90
- WZT3
- T55
- BMP



Combat System

- RCWS
- Turret
- Active Protection System



Aerial Delivery System

- Cargo Extraction System
- Ground Support Vehicle
- Aerostructure
- Aerospace Systems/Subsystems



Land System

- Hulls & Cabin
- Trailers & Shelters
- Special Trailers
- Armoured Vehicle

OVERHAUL,
MODERNIZATION AND
SPARE PARTS OF
MILITARY VEHICLES



OVERHAUL, MODERNIZATION AND SPARE PARTS OF MILITARY VEHICLES

Ours and Our Partner Specialization:

- Main battle tanks: T-55, T-72
- IFVs and their modifications: BMP-I, BMP-II / IIK, PRAM
- Self-propelled mortar, recovery BMP etc.
- Artillery systems: RM-70, 152 mm

DANA

- Vehicles on TATARA chassis
- Repairs of individual spare parts, refurbishment and overhaul of engine and transmission.

Our Partners Advantages:

- Modern facilities with all equipment to conduct complex maintenance, overhaul, and modernization services for both wheeled and tracked vehicles as well as special vehicles for military engineers.
- Experienced personnel who undergo regular training to ensure top quality services to our customers.
- 25 years of experience.

152 mm DANA Howitzer Repairs



Repairs of Tracked Vehicles



Repairs of BMP-II / IIK



OVERHAULS AND MAINTENANCE OF ICV BMP-II/IIC

Engine Compartment



Hull



Crew Compartment



Overhauled Turret



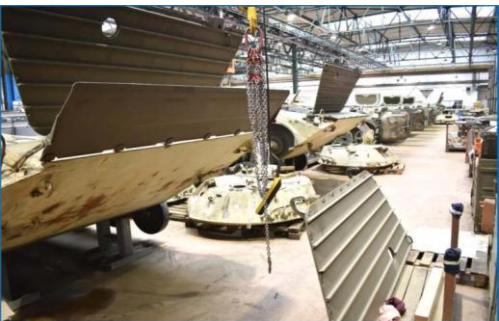
Disassembly



Turret Prior Overhaul



MAINTENANCE AND MODERNIZATION OF IFV BMP-I/II/IIK



ARMoured RECOVERY VEHICLE VT 72



Customer: Approved supplier of Indian Army with proven track record

- Built on the T-72 chassis for battlefield recovery and repairs
- Retains original armor, engine, and WMD resistance
- Upgraded utility systems including:
 - 19-ton crane
 - Winches
 - Bulldozer
 - Loading platform
- Expertise in design, refurbishment, and modernization of Armored Recovery Vehicles
- End-to-end solutions for both tracked and wheeled Armored Recovery Vehicles

ARMOURED RECOVERY VEHICLE WZT-3



Customer: Approved supplier of Indian Army with proven track record

- Condition based Repair
- Replace & refurbishment of:
 - Crane
 - Main Winch
 - Auxiliary Winch
 - Dozer Blade
 - Intermediate Gear Box
 - Side Gear Boxes
- Linked DCVs, Control Panels

PRIME CUSTOMERS – INDIAN ARMY BASE WORKSHOPS





COMBAT SYSTEM

- RCWS
- Turret
- Active Protection System
- Anti Drone System

CANNA – 50 RCWS (12.7 mm / 7.62 mm / 5.56 mm)

**Customer: Ministry of Defence
of Slovak and Czech Republic**



KEY FEATURES:

- In-house Ballistic Computing, Servo Drive & Stabilization Logic (with European partner).
- Fully Indigenous Manufacturing in India
- Crew Protection: Fully overhead CANNA 50.
- High LoF Accuracy: Latest-generation SRCS, optimized for versatile use
- LoF & LoS Stabilization: Advanced digital servo and stabilization architecture
- Mount Variability: Compatible with calibers of all origins
- Modular Ammo Clip: Up to 540 rounds ready for 12.7mm
- MIL-STD Compliant with STANAG 4569 Level II ballistic protection
- Safety Firing Zones: Configurable by operator
- Transfer of Technology (ToT): Ready for customer facilities
- Manual Mode for operational flexibility



30mm Turret

One-Man Turret -- 30 mm Capability

- Versatile Compatibility: Designed for tracked & wheeled combat vehicles (BMP-1, BTR-70/80, OT-64, etc.)
- Future-Ready: Targeting higher calibers & air defense weapon systems
- All-weather Operation: Reliable in -30°C to +50°C, day & night, even on the move
- 360° Traverse & -4° to +50° Elevation for maximum firing flexibility
- Modular Design: Welded structure with externally mounted weapons
- Advanced Fire Control: Electric weapon control with manual backup
- Crew-Centric: Accommodates gunner's seat, ammo magazines, and control systems
- High Effectiveness: Strong ballistic protection, low weight, and modularity
- Global Appeal: Optimum choice for armed forces worldwide

ADSL ANTI DRONE SOLUTIONS



**Hand Held Counter
Drone System**



**Vehicle Mounted
Anti Drone System**



**Infra-protection
Anti Drone System**



**Active Protection
System**

ADSL ANTI DRONE PRODUCT RANGE

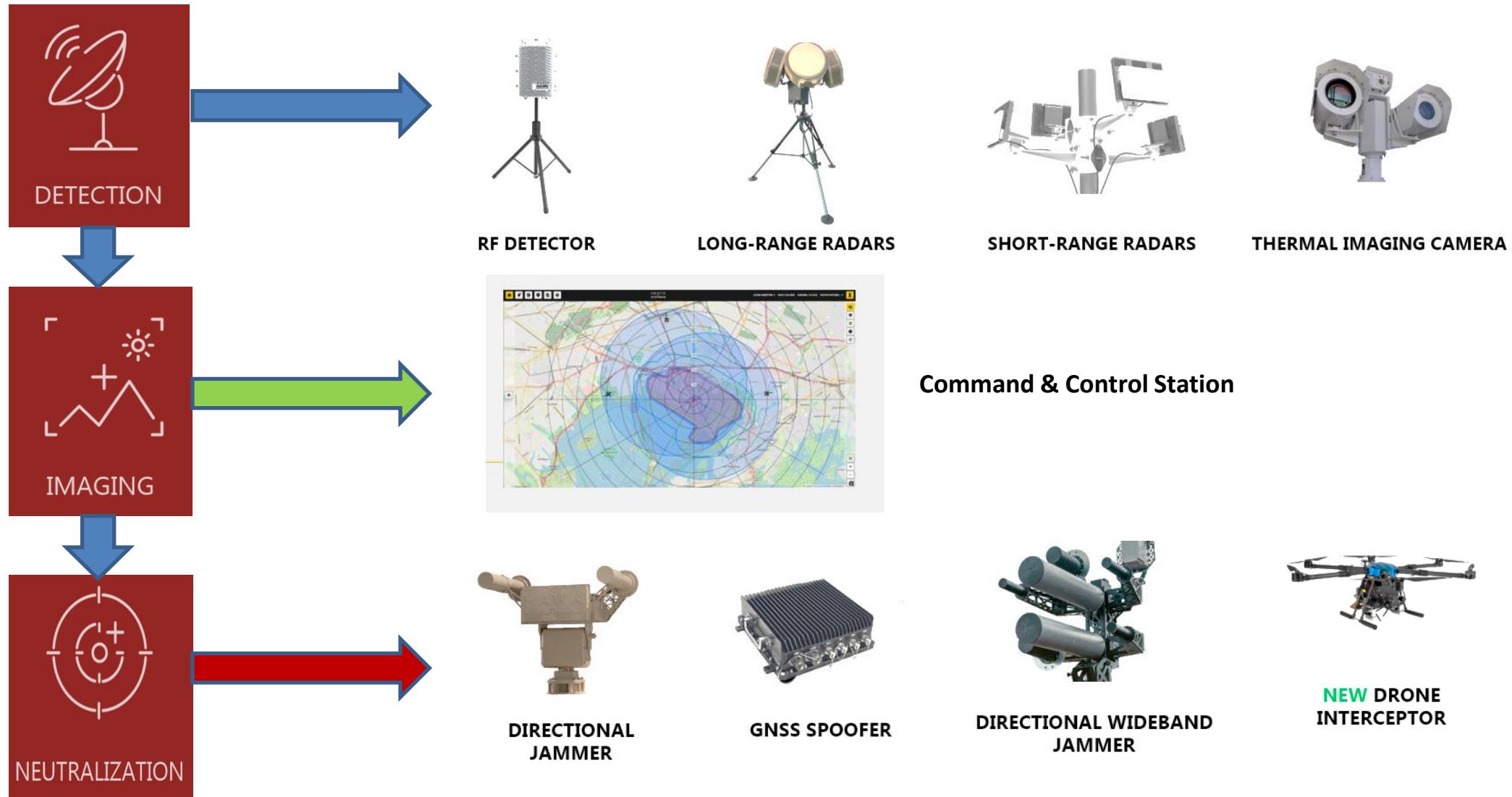
Introduction

In response to the evolving threat posed by hostile drones to critical infrastructure and national security, ADSL has developed a cutting-edge, multi-layered Anti-Drone Solutions engineered for rapid detection, precise tracking, and reliable neutralization of unauthorized aerial threats.

This indigenous solution integrates advanced radar technology, RF jamming, electro-optical/infrared (EO/IR) surveillance, interceptor drones, and hard-kill mechanisms—offering a comprehensive protective shield for strategic assets, border area and high-value zones. ADSL offer below mentioned comprehensive range of counter-drone solutions-

- 1. Hand Held Counter Drone System (HCDS)**
- 2. Man-Portable Anti-Drone System (MPADS)**
- 3. Net-Catcher Anti-Drone System (NCADS)**
- 4. Vehicle Mounted Anti Drone System (VMADS)**
- 5. Infra-protection Anti Drone System (IPADS)**
- 6. Active Protection System (APS)**

SYSTEM OVERVIEW



HAND HELD COUNTER DRONE SYSTEM (HCDS)

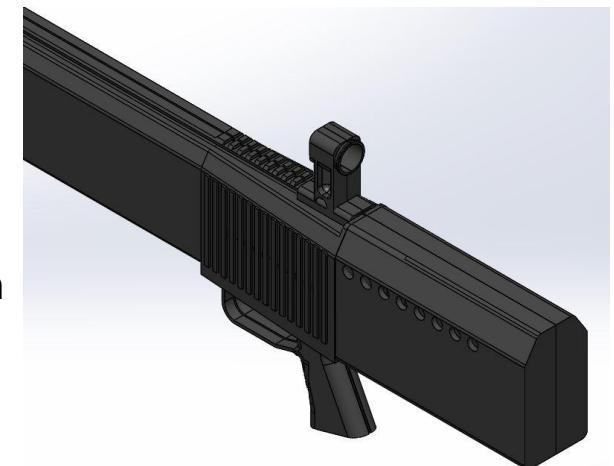
System Overview

- Compact, portable, one man carry system suitable for field operation.
- Quick neutralization of unauthorized or hostile drones.
- Intercept and disable drones at short to medium ranges without physical destruction.
- Effective solution in tactical operations, border area protection, and VIP security.



Key Feature

- Multi-Band RF Jamming with frequencies 400 MHz - 5.8 GHz.
- Quick Deployment and becomes operational within seconds.
- Shoulder-fired or rifle-style form factor with trigger operation.
- Operational range of up to 1–2 km (line of sight).
- Denies GPS/GLONASS/Galileo reception to targeted drones, causing disorientation or auto-landing.
- Built-in diagnostic display or LED indicators for system health and battery status
- Weight under 6 kg for single-operator use



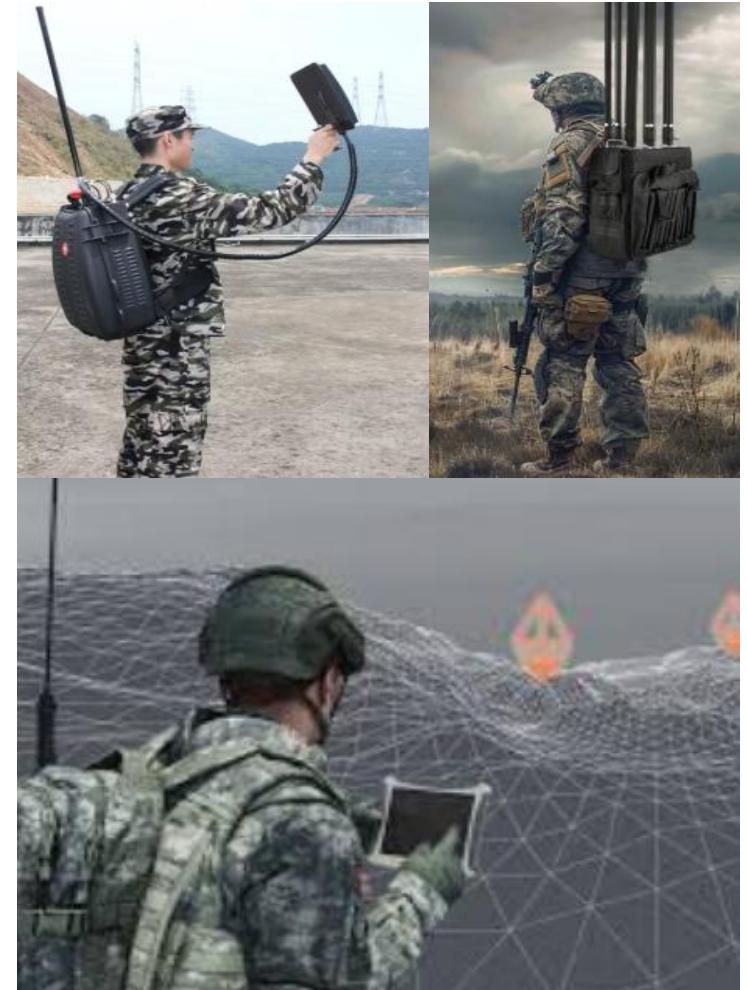
MAN-PORTABLE ANTI-DRONE SYSTEM (MPADS)

System Overview

- Lightweight, modular, and soldier-friendly solution.
- The system comprises a backpack-mounted RF/EO/IR detector and a hand-held directional jammer
- Designed to detect, track, and neutralize hostile drones in tactical environments.
- Low signature, rapid deployment, and reliable performance in diverse terrains and weather
- Ideal for jungle warfare, urban combat, and high-risk operations.

Mission Suitability

- Counter-insurgency operations
- Jungle and urban patrolling
- Convoy and base protection
- Tactical ambush support
- Terrorist hideout raids



MAN-PORTABLE ANTI-DRONE SYSTEM (MPADS)

The MPADS system is combination of two sub-system-

- Backpack-Mounted Drone Detector Unit
- Hand-Held Directional Jammer Unit

Key Feature:

Backpack-Mounted Drone Detector Unit

- 360° RF Detection with signal classification (2.4 GHz, 5.8 GHz, GNSS, custom C2 links)
- EO/IR camera (optional) for visual confirmation and passive tracking
- Detection range: Up to 4 km depending on terrain and drone size
- Low SWaP (Size, Weight, and Power) with silent operation
- Real-time alerts via audio, visual, and vibration feedback on wearable or mobile display
- Encrypted communication with jammer unit and central command if needed



Key Feature:

Hand-Held Directional Jammer Unit

- Multi-band jamming eg. GNSS, 2.4 GHz, 5.8 GHz, and custom RF bands
- Directional high-gain antenna for precise target disruption
- Effective jamming range up to 1.5 - 2 Kms (LoS)
- Trigger-based operation with safety interlock and mode selector (disruption / disable)
- Battery powered (field swappable) with >1 hours runtime.
- Ruggedized for single-person use in combat conditions

NET-CATCHER ANTI-DRONE SYSTEM (NCADS)

System Overview

- An advanced, drone-mounted interception solution designed to capture hostile drones intact using a net-firing mechanism.
- Deploying a net to entangle, disable, or tow the target drone to a secure location.
- Intercept and disable drones at visual ranges without physical destruction.
- Allows the safe recovery of enemy UAVs for forensic investigation, data extraction, or disposal.



Key Feature

- Multi-rotor UAV with EO/IR camera for visual target acquisition capacity and net-launcher system.
- AI-assisted autonomous detection and target tracking.
- Drone operational range of up to 2-3 km (line of sight).
- Fires net to bring drone down by entangling rotors.
- Effective range: 5–15 meters from target drone.
- Capture-and-tow target drone to base.



VEHICLE MOUNTED ANTI DRONE SYSTEM

System Overview

- Cutting-edge mobile platform designed to detect, track, and neutralize unmanned aerial vehicles (UAVs) and drones.
- The system is integrated with radar, sight system, electronic warfare, and directed energy weapons to provide comprehensive protection against drone threats.

Key Feature

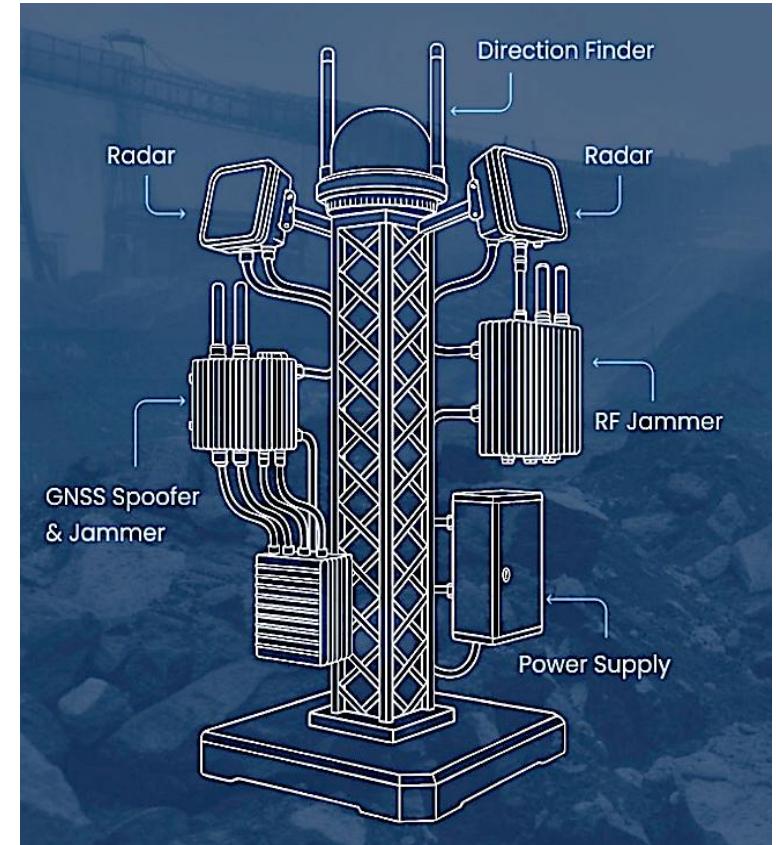
- Mobility and Rapid Deployment
- Automatic Detection and Classification
- Automatic Neutralisation
- Capability to neutralise drone swarms
- Suitable to quickly deploy at airport, field operation area and civilian populations to protect from potential drone attacks.



INFRASTRUCTURE PROTECTION DRONE SYSTEM (IPDS)

System Overview

- Integrated, multi-layered solution designed to detect, identify, track, and neutralize unauthorized drones or aerial threats near critical infrastructure
- Autonomous aerial surveillance and rapid response solution against physical intrusion, sabotage, and aerial threats.
- Provide 24/7 perimeter monitoring, anomaly detection, and real-time threat response.
- Equipped with advanced sensors, AI-driven analytics, and optional deterrence modules.
- Designed to reduce human dependency, and accelerates reaction time in the event of a security breach.



INFRASTRUCTURE PROTECTION DRONE SYSTEM (IPDS)

Key Feature



3D Surveillance Radar

- 360° azimuth coverage
- Detection range: up to 5–15 km (customizable)
- Tracks multiple targets simultaneously



Electro-Optical/Infrared (EO/IR) Sight System

- Visual identification and Auto tracking of drone threats.
- Day/Night vision capability.
- Laser range finder (optional)



RF Detection and Jamming Module

- Detects drone communication frequencies (2.4GHz/5.8GHz)
- Jams GNSS and RF links to disable drone control
- Disrupts drone-to-operator communication



Hard Kill System

- Neutralization of hostile drones through kinetic Disrupts
- Directed Energy Weapon (Laser)
- Net-Gun Launcher or kinetic kill with minimal collateral damage.

Command & Control (C2) Unit

- Centralized processing and coordination of threat data and system actions.

ACTIVE PROTECTION SYSTEM (APS)

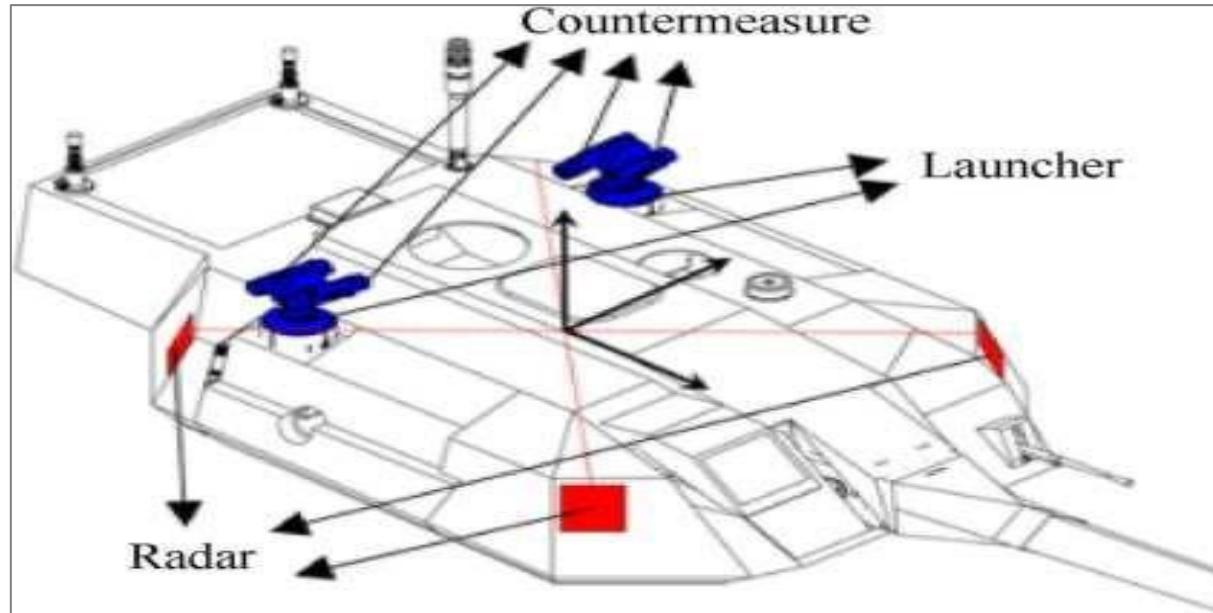
APS are advanced defense technologies designed to detect, intercept and neutralize incoming threats such as projectiles, rockets, and anti-tank guided missiles. These systems enhance the survivability of armored vehicles and protect onboard personnel by employing a combination of detection, disruption, and interception techniques.

APS Subsystems:

- Radar Subsystem – for threat detection and identification
- Jammer Subsystem – for soft kill operations
- Countermeasure / Launcher Subsystem – for hard kill operations
- Ammunition – for hard kill operations
- Fire Control Systems – for ballistic algorithms

RADAR SUBSYSTEM

- The RADAR system is responsible for detecting and tracking potential threats in real-time.
- Using high-frequency electromagnetic waves, RADAR detects objects and tracks their trajectory.

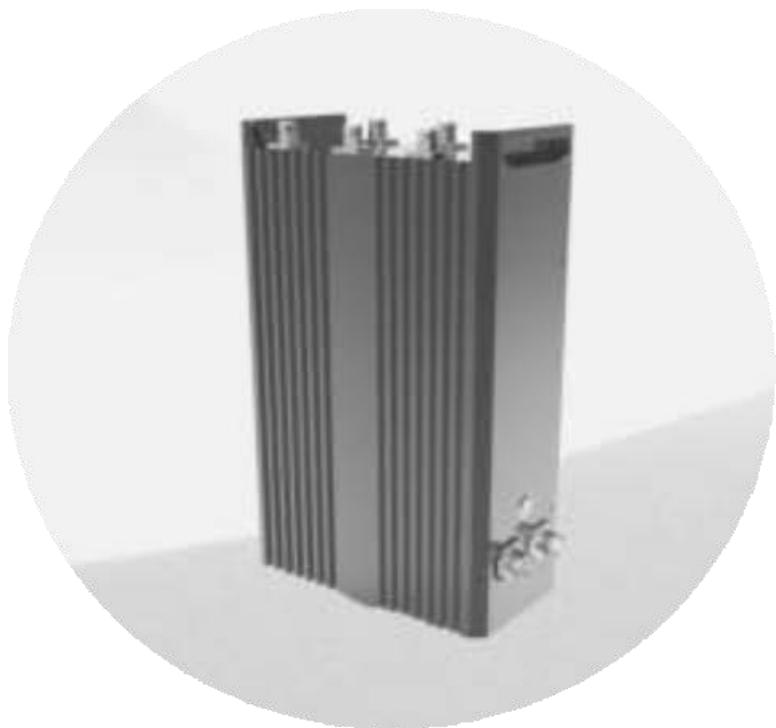


SUBSYSTEM OF HEM RAD

Advanced Pulse-Doppler Radar

- Software-Defined S/X-Band Platform
- AESA Antenna with Advanced Amplifiers
- 4D Processing for Superior Clutter Handling & Multipath Mitigation

JAMMER SUBSYSTEM



Jammers are designed to deceive or disrupt the guidance systems of incoming threats, rendering them ineffective or causing them to veer off course. This is typically referred to as a "soft kill" method of defense.

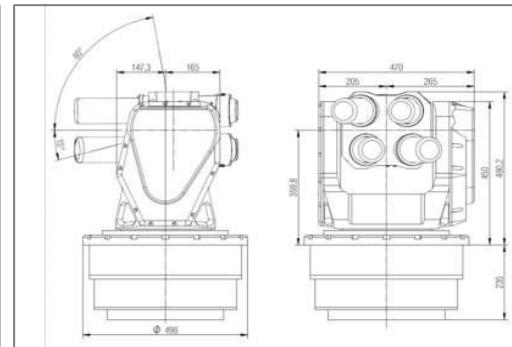
Functionality: The jammer emits electromagnetic interference to disrupt the communication and guidance signals of incoming projectiles or missiles. By interfering with the missile's guidance system, the jammer can cause it to miss its target or detonate prematurely.

Technology: Jammers typically use high-power microwave (HPM) or radio-frequency (RF) signals to create interference, which can either confuse or completely disable the target's tracking system.

COUNTERMEASURE / LAUNCHER WITH AMMUNITION

Countermeasures are active interceptive systems that are deployed to physically neutralize or destroy incoming threats. These systems include a variety of mechanisms such as projectiles, explosive devices, or directed energy weapons

Launcher



Ammunition



FIRE CONTROL SYSTEM

Fire Control System (FCS) is the **central decision-making and execution unit** that coordinates detection, tracking, targeting, and interception of incoming threats like **RPGs, ATGMs, or tank shells**.



ADSL Fire Control Systems

- Developed for Slovakian Technology Partner
- Integrated into RCWS, DVK30, & Other Combat Platforms
- Enhances Precision, Situational Awareness, & Operational Effectiveness
- Reinforces Modern Battlefield Capabilities

Developed and supplied to ROLUS.
Extensively being used in Slovakian and Czech Republic Army



AERIAL DELIVERY SYSTEM

- Cargo Extraction System
- Ground Support Vehicle
- Aerostructure
- Aerospace Systems/Subsystems

PLATFORM PLUS PARACHUTE SYSTEM FOR AERIAL DROP FOR C130 CARGO AIRCRAFT

Heavy Drop System – 20T



Customer: Ministry of Defence (INDIA)



PURPOSE:

Designed for air-dropping equipment up to 20 tons from C130 cargo aircraft.



KEY COMPONENTS:

- Aluminium Heavy-Duty Structure (extrusion-based)
- Precision Mechanisms (honeycomb, timer mechanism)
- Parachute System
- Heavy Fabrication, Extrusion, Forging, Machining



MAJOR SUB-SYSTEMS:

- Platform System:
 - For palletization and lashing of combat equipment and cargo
 - Provides mounting for the parachute system
- Parachute System:
 - Extracts and decelerates the platform with payloads during airdrop from aircraft



Nations having C130 Aircraft fleets:

United States, Australia, Canada, India, Italy, United Kingdom, Bahrain, Bangladesh, Denmark, France, Germany, Iraq, Israel, South Korea, Kuwait, Norway, Oman, Qatar, Saudi Arabia, Tunisia, New Zealand, Indonesia, Philippines and Egypt.

NAVAL CARGO DROP

Naval cargo drop is the aerial delivery of supplies to naval vessels at sea using parachutes or low-altitude techniques, enabling rapid resupply during operations, humanitarian missions, or when docking is not feasible



Customer: INS KARNA, Ministry of Defence (INDIA)

CHALLENGES:

- Precision and Targeting
- Weather and Sea Conditions
- Parachute System Limitations
- Navigation and Communication
- Platform Limitations



KEY ACTIVITIES:

- Platform Repair
- New Strap
- Made New Tripler Cable
- Squib and Platform Cable (Electronics)

BRAKE PARACHUTE (A9)

Brake parachutes also known as drag chutes or drogue parachutes, are small parachutes deployed to rapidly reduce the speed of an object. These are commonly used in aviation, space, and motorsports where conventional braking systems are not sufficient or feasible.



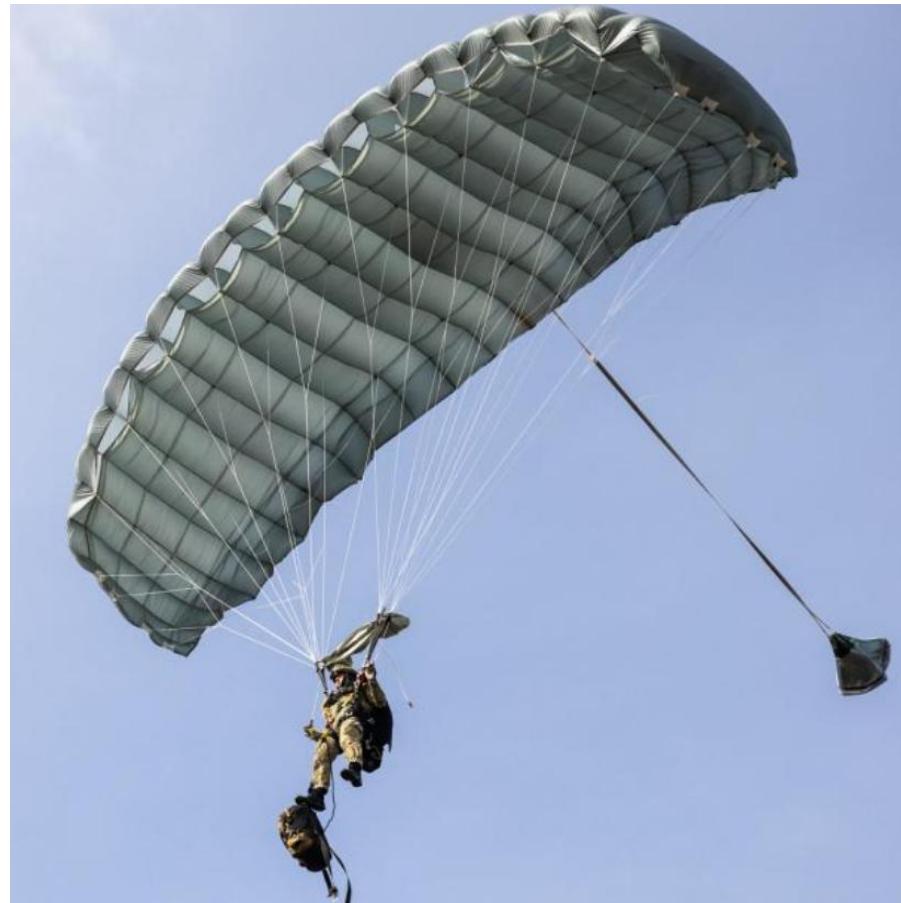
Customer:
Ministry of Defence (INDIA)

- Designed for effective deceleration
- Ensures safe landing of Indian Air Force fighter aircraft across all weight classes in both normal and emergency conditions.
- Are indigenously designed and developed for IAF operations.

As Development-cum-Production Partner (DCPP), we have received a prototype order for 15 units. Upon successful testing, we will secure the Transfer of Technology (ToT) for future orders.

MILITARY COMBAT PARACHUTE SYSTEM (MAN CARRYING)

MCPS (Man-Carrying Parachute System) is a specialized military parachute designed to safely deploy personnel with full combat gear from aircraft. It ensures controlled descent, maneuverability, and safe landing in challenging terrains like forests, water bodies, and high altitudes.



Customer:
Ministry of Defence (INDIA)

- The MCPS enables special forces to deploy with gear using techniques like HAHO, HAMO, and HALO.
- It meets international standards, follows PIA testing guidelines
- Approved by the Centre for Military Airworthiness

ADSL SCOPE:

- Identify Technical Textile, Tape & Chords (RM)
- Template Cutting
- Material Cutting
- Fabrication of Joints
- Making of Panel
- Joining of panels and canopy fabrication.
- Assembling Canopy

SELF PROPELLED HYDRAULIC PLATFORM LOADER



Customer: Ministry of Defence (INDIA)
Trials By : Indian Air Force

Designed, developed, and supplied to ADRDE, the HPL is used for loading and offloading heavy drop loads from aircraft. It also facilitates transportation of loads from the aerial port to the aircraft tarmac.

HPL is self-propelled for transportation of max. 20000 kg of Cargo-load, with the following speed range:

- Unladen forward speed = 32 kmph (max)
- Unladen reverse speed = 10 kmph (max)
- Loaded platform speed = 15 kmph (max)

Overall Dimensions of HPL:

- Length: 10,130 mm
- Width (Platform): 2,870 mm
- Width (Over Tyres): 2,580 mm
- (iv) Height: 2,430 mm

ELEVATOR



The **Elevator** is a wearable device designed for personnel descending with a parachute after jumping from an aircraft. It is strapped to the ankle, just below the knee, and features a Bluetooth-connected earpiece that provides real-time audio updates on the user's altitude above ground level. This makes it especially valuable during night jumps, offering enhanced situational awareness. Compact and easy to use, the Elevator is a practical and effective tool for armed forces personnel during airborne operations.

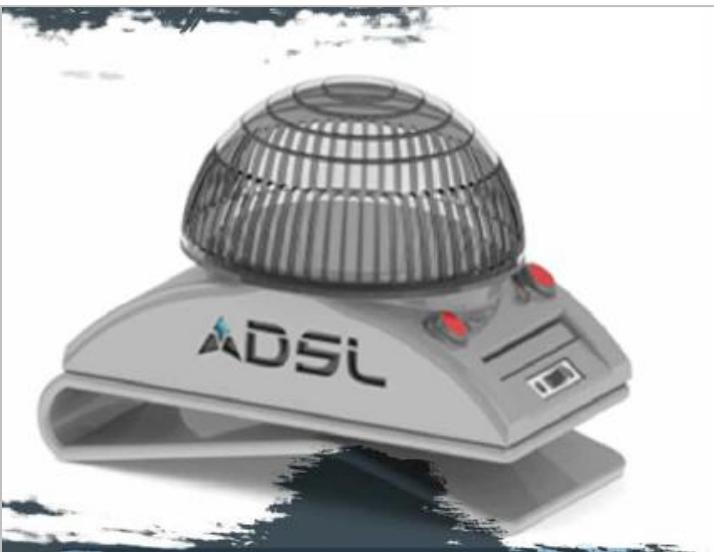
Specifications:

- Measuring Range from 0.2m to 200m
- Scan rate upto 20000 samples per second
- Operating Range -10°C to 50°C
- Bluetooth V 5.0
- Audio Range upto 20 ft
- Power requirements: 3.3 to 6.5 VDC
- Supports I²C and SPI communications

Features:

- High resolution: 200 Meter.
- Multiple return signals, signal strength, noise measurement etc.
- 49 to 20000 readings per second (configurable)
- Eye safe laser emission Class 1M
- Open frame, no IP rating
- Can be mounted in a downward facing orientation

MYOPIA - V1.0



Myopia is a compact, lightweight device designed for versatile mounting on helmets, vests, backpacks, or any part of the body. It can also be securely attached to clothing using Velcro. The device continuously emits infrared (IR) light at a specific frequency, which is detectable through specialized goggles worn by friendly forces. Myopia is particularly useful for identifying friendly personnel in crowded environments, dense forests, or low-visibility scenarios. Strategically, it serves as an effective tool for armed forces to distinguish their own soldiers during complex operations.

- Utilizes 4 x high performance LEDs
- Powered by built-in Li-ion battery with a max runtime of 20 hours
- Built-in Li-ion battery charging circuit with a micro-USB port
- Constructed of a durable PC materials
- Built-in power indicator
- Can be attached anywhere
- Extremely light weight
- Impact resistant to 1 meter
- Can be used with Helmets, Vests or Backpacks or any Velcro surface
- Extremely light weight, USB Rechargeable, Inbuilt Li-ion battery (120mah)
- Micro USB Port for Internal Recharging of inbuilt battery (USB cable included)
- Modes: IR Flashing mode (Beacon) + IR Constant + Green Flashing + Green Constant

LAND SYSTEMS

- Hulls & Cabin
- Trailers & Shelters
- Special Trailers
- Armoured Vehicle



ARMOURED CABIN PROJECT

ADSL has delivered following armoured cabins:



ATAG 4 Door Armoured Cabin
Delivered in 2022 & 2023



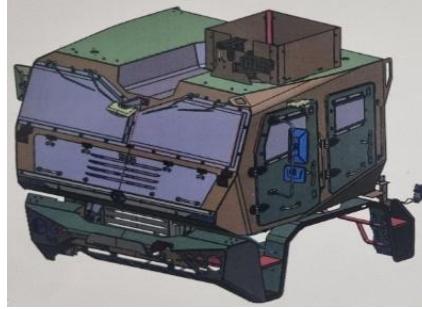
MGS 2 Door Armored Cabin
Delivered in 2023



MGS 4 Door Armoured Cabin
Delivered nos. in 2024.

- Strengthened armored cabins for high mobility 6x6/8x8 vehicles (Mounted Gun System)
- Designed to withstand blast pressure and exhaust gas temperatures from the muzzle
- Right-Hand Drive with seating for Driver, Co-Driver, and crew members
- Windshields are ballistic resistant to STANAG Level I standard
- Cabin structure made from HAT Section to resist blast pressure and dynamic loads
- Armored plates welded over the structure to form the cabin

ARMOURED CABIN PROJECTS

Customer	 beml NEW FRONTIERS. NEW DREAMS	 TATA ADVANCED SYSTEMS	 KALYANI BHARAT FORGE	 adani Defence and Aerospace
Cabin	 ATAG 4 Door  MGS 4 Door  MGS 2 Door	 MGS 4 Door	 MGS 4 Door	 MGS 4 Door

50 TON HYDRAULIC TRAILER: ADVANCE TANK TRANSPORTER



Approved supplier of
Indian Army with proven track record



- 50 Ton Tank Transporter Trailer with tractor for transporting medium tanks and heavy equipment up to 50 tons
- Operates on metalled, un-metalled, and gravel tracks in plains and desert terrains.

50 TON MECHANICAL TRAILER : HEAVY DUTY TANK TRANSPORTER



Largest and approved supplier of Indian Army with proven track record
200 Units already supplied. 200 units order in pipeline



- 12 Twin-wheeled Heavy-Duty Full Trailer Designed for Rough Rerrains.
- Payload Capacity of 50 Tons.
- Used for Transporting Battle Tanks in the Indian Army
- Towed by BEML-TATRA T815 VTI 8x8 Vehicle

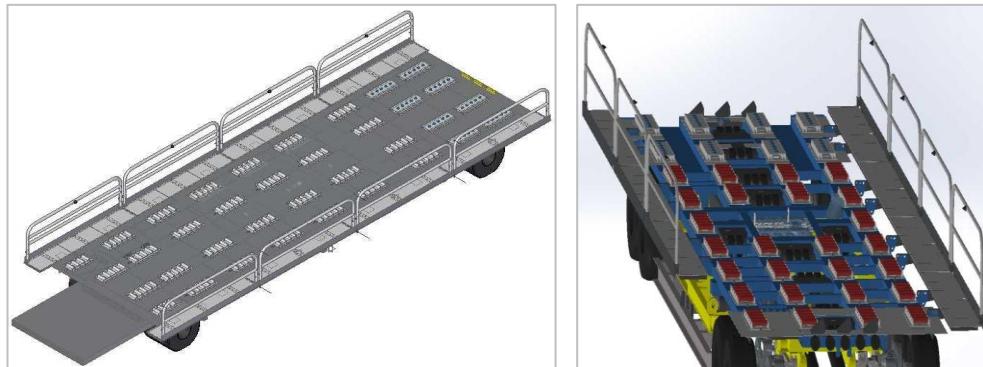
70 TON TRAILER

- Designed for rugged terrain, ensuring seamless transportation of medium to heavy equipment
- **70-ton payload capacity**, accommodating tracked vehicles, earth movers, and heavy machinery
- Secure lashing arrangements for safe transportation
- Built to meet **IRC Class 70-R standards** for axle, road, and bridge classifications
- Selective axle lifting feature for enhanced operational flexibility
- Suitable for metaled, un-metaled, and desert tracks



SPECIAL TRAILERS

32 Feet Loader Trailer



- Part of Airport Ground Support Equipment (AGSE)
- Used for loading and unloading air cargo into and from aircraft
- 32-feet loader trailer designed for military tactical and strategic logistic support

Flat Bed Truck (Loading Platform Dozer Weight of 20 Ton)



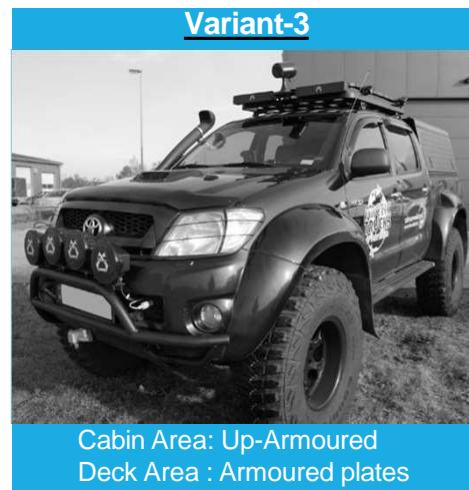
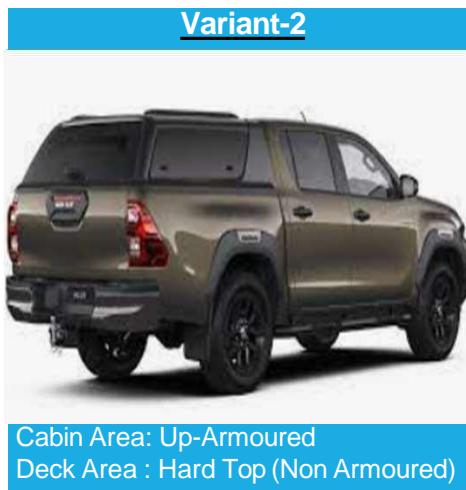
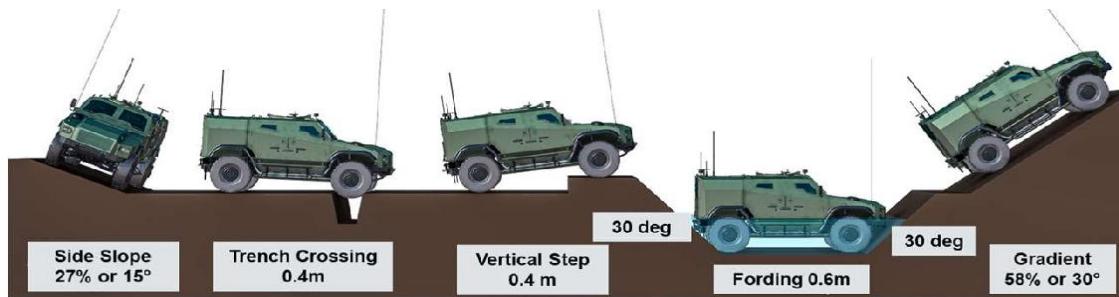
- Designed for transportation of Size II Dozers authorized to Engineers Core
- Suitable for mountainous roads with a smaller turning radius
- Integrated vehicle with a platform capable of carrying payloads of 20 tons or more (excluding bed weight)

PROJECT WITH TOYOTA ON HILUX (ARMOURED & COMBAT VEHICLES)



Status : Under Development. 1 Unit order received and expected to deliver next quarter to a Private Customer

- Armoured capsule-based light bulletproof vehicle developed on Hilux chassis
- Provides protection against small arms fire and underbelly grenade attacks
- Designed for Defence, Para Military, and Police forces
- Suitable for counter-terrorist and conventional roles



Developed

Developed

Developed

Under Development

Bulletproof Vehicles



Land Cruiser 300



BMW 7-Series



Mercedes Benz GLE 350d



Toyota Fortuner



Toyota Vellfire



Rolls Royce Cullinan



Range Rover



Mercedes Benz E-Class

- **Leading armoured vehicle manufacturer in India.**
- **Experienced team specializing in engineering, designing, and prototyping armoured vehicles for civilian use.**
- **Deploys the latest cutting-edge technology, thoroughly tested in-house.**
- **Redefines lightweight combat vehicle protection and performance.**
- **Affordable budget with excellent performance, stylish design, and high security.**
- **Offers every possible degree of customization.**

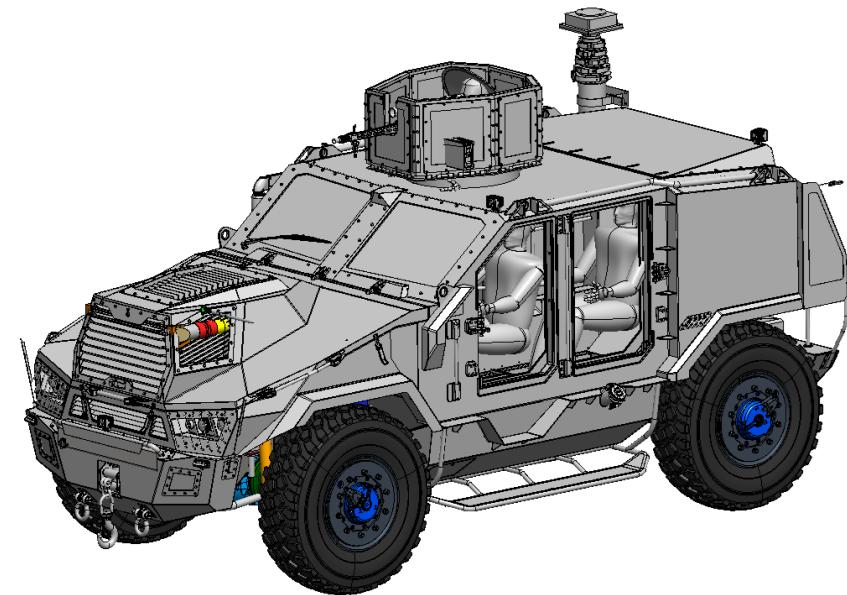
ARMoured TACTICAL VEHICLE



- Built on a **4x4 Isuzu chassis**, this rugged vehicle is designed for law enforcement, border patrol, and riot control.
- It serves as a secure personnel carrier, reconnaissance, and surveillance vehicle.
- It features a 360° revolving roof hatch, gun mount, and firing ports for enhanced defense and operational versatility.



LIGHT ARMOURED MULTIPURPOSE VEHICLE (LAMV)



ADSL Scope:

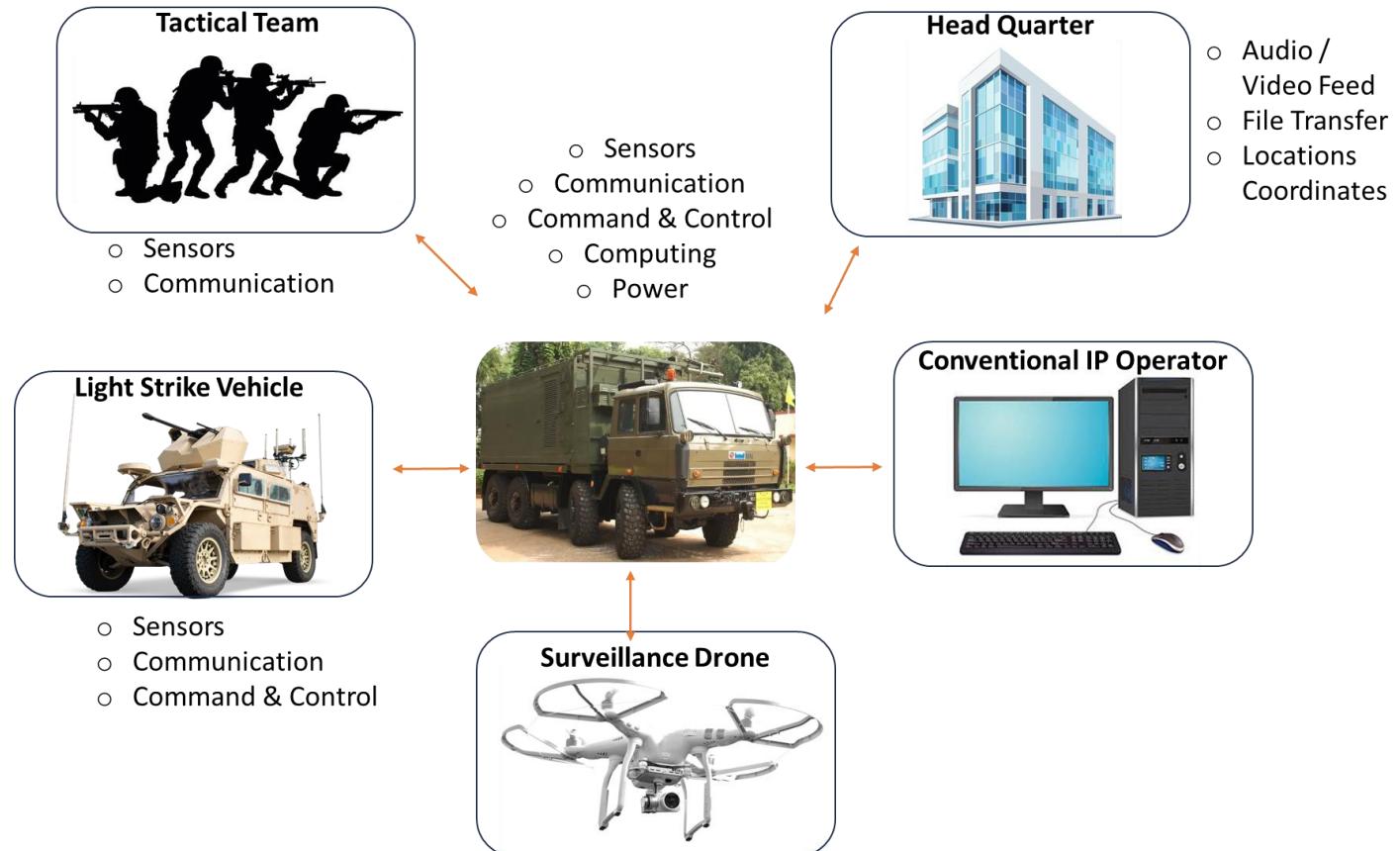
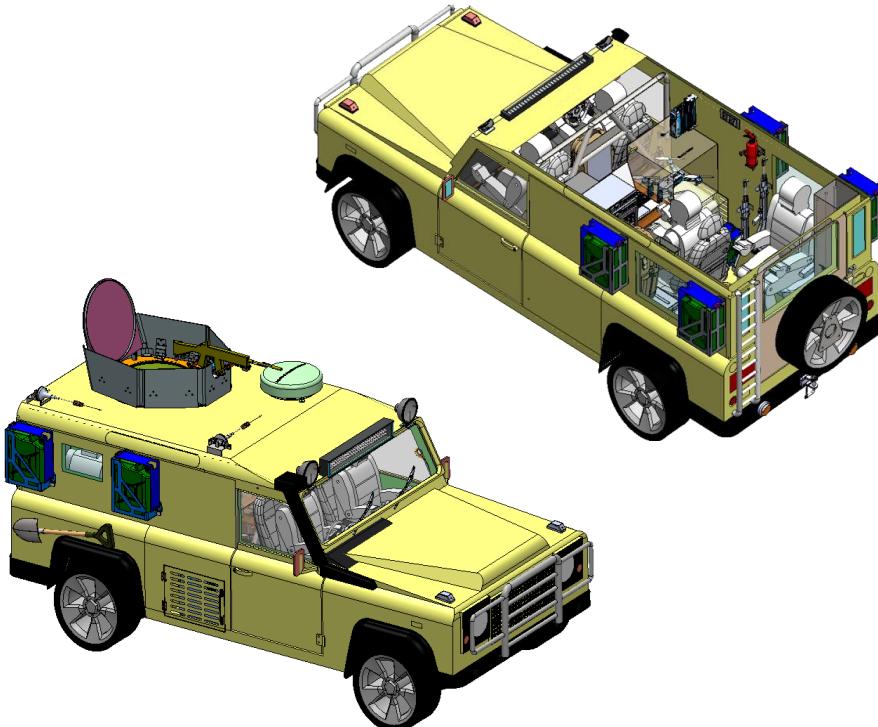
- Design & Development of STANAG Level 2a & 2b Body
- Complete Selection & Integration of Interior Aggregates
- Design & Development of Dashboard
- Complete Design & Development of Electrical & Electronics System
- Landmine Simulation
- Body Certifications of Blast/Ballistic from NABL Lab

Customer:  **beml**
NEW FRONTIERS. NEW DREAMS

MODIFICATION OF LIGHT STRIKE VEHICLE (LSV)

ADSL Scope:

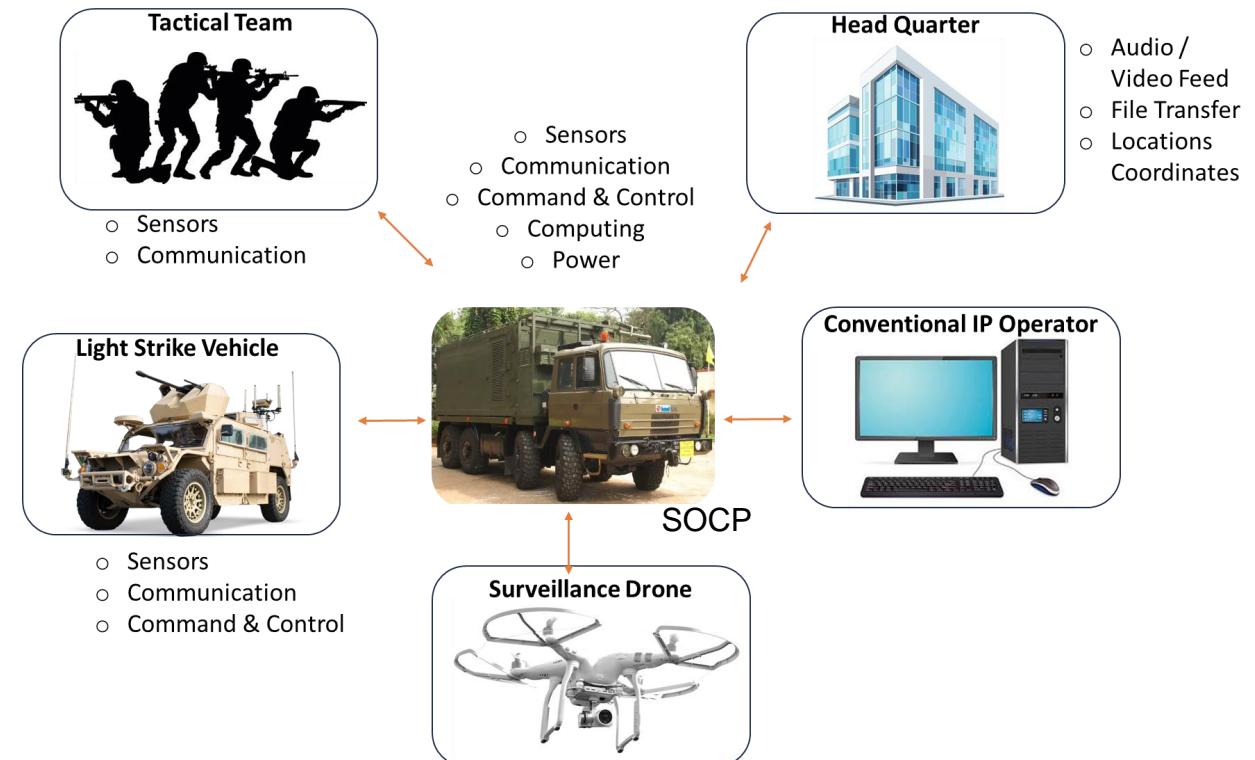
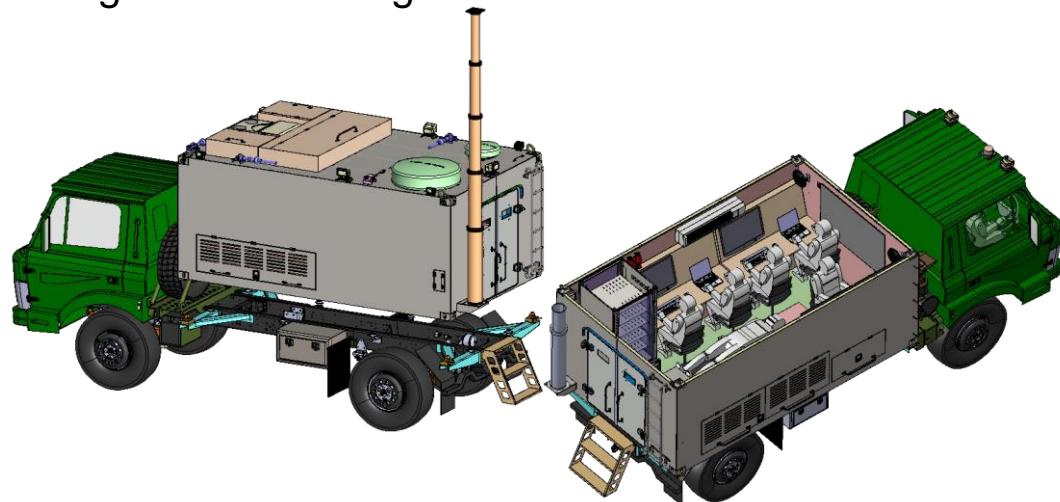
- Communication Infra
- Body Development
- Power System
- Integration & Testing



SPECIAL OPS COMMAND POST (SOCP)

ADSL Scope:

- Communication Infra
- Container Development
- Power System
- Environment Controlled Cabin
- Pneumatic Mast & Other Aggregates
- Integration & Testing

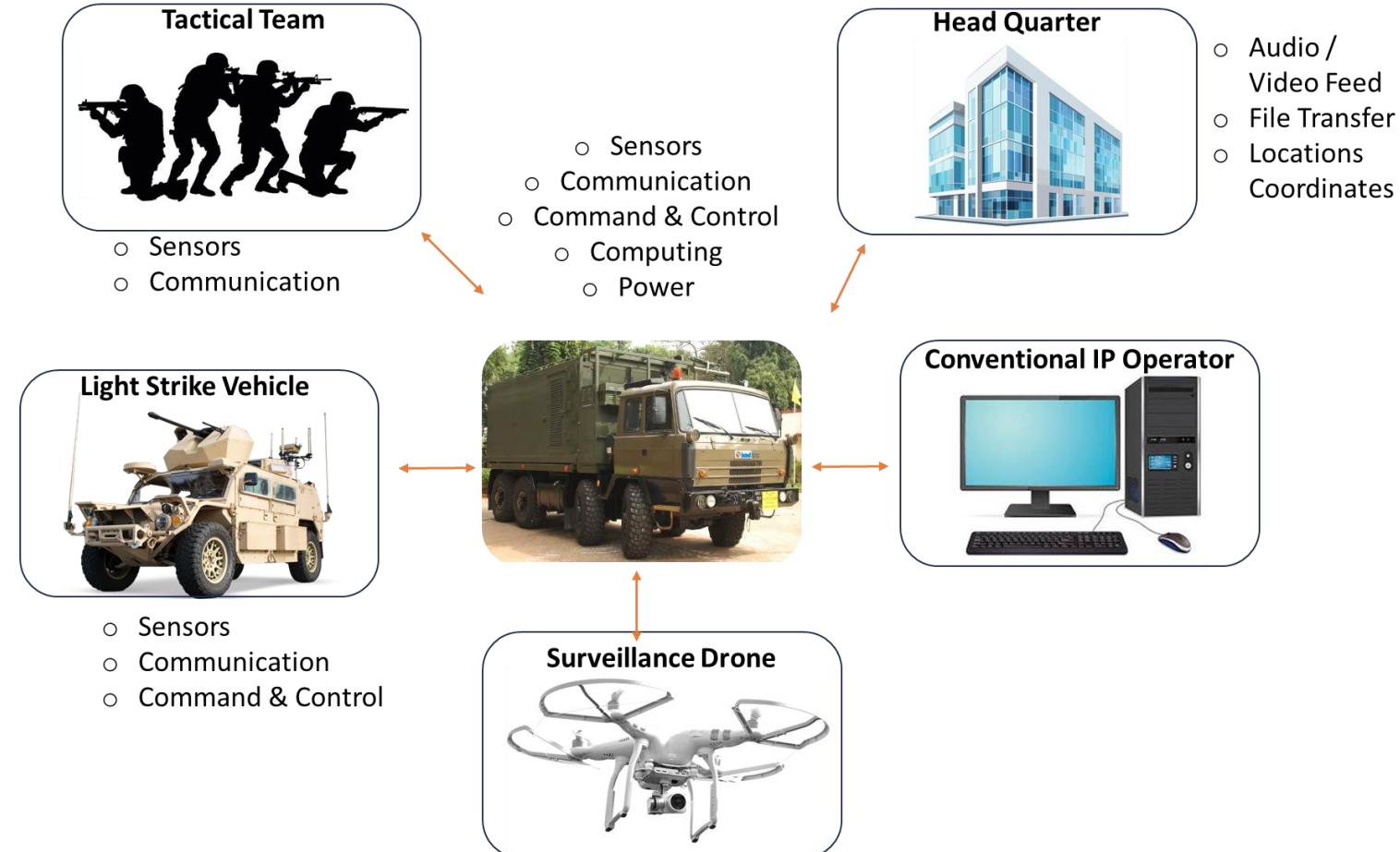


GROUND CONTROL AND COMMAND

Designed, Developed and Manufactured Command and Control Systems/Subsystems

Key components include:

- Shelters
- Consoles
- Rack-type cabinets
- Power Distribution Units (PDUs)
- Monitoring and Command Modules
- Command and Control Software
- User Interface Software



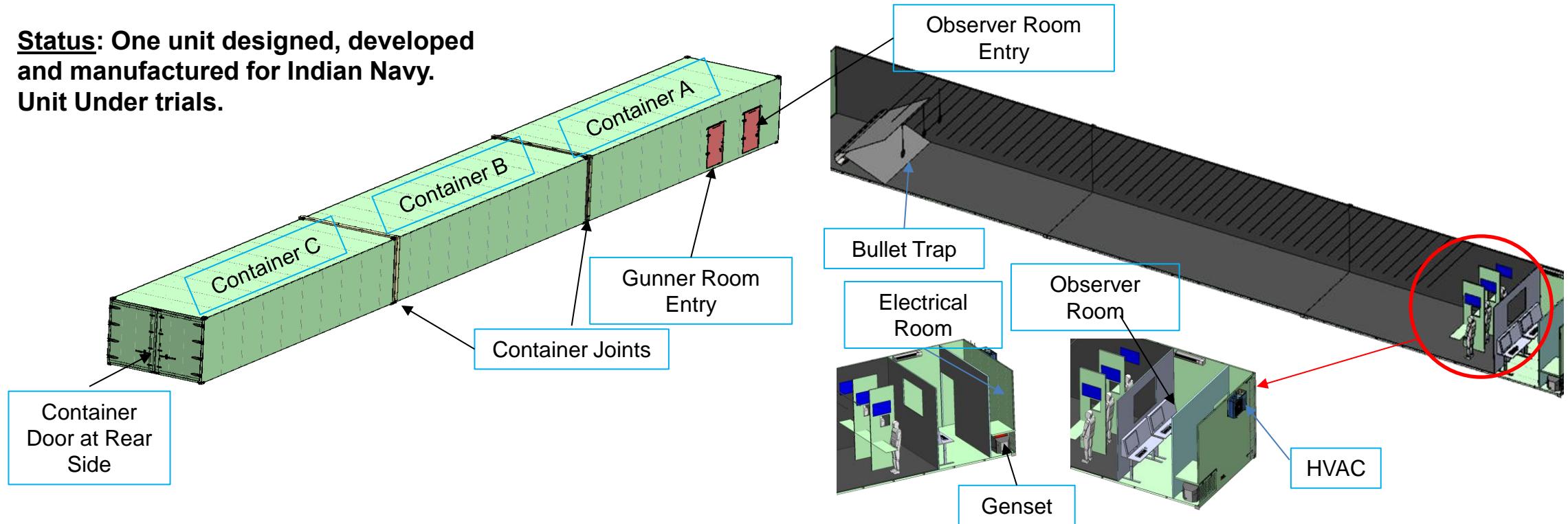
MOBILE COMMAND AND CONTROL VEHICLE



- MCCV for Karnataka & Nagpur Police built on Ashok Leyland chassis
- Essential for emergency response, military operations, and public safety agencies
- Provides on-site command and control during incidents, disasters, and emergencies
- Improves situational awareness, communication, & coordination during critical incidents

CONTAINERIZED SMALL ARMS FIRING RANGE (CSAFR)

Status: One unit designed, developed and manufactured for Indian Navy.
Unit Under trials.



A Containerized Small Arms Firing Range (CSAFR) is a portable, self-contained shooting range housed within a standard shipping container (usually 20 or 40 feet). It is designed for live-fire training with small arms such as pistols, carbines, and rifles up to a specified caliber (often up to 7.62 mm), and is primarily used by military, police, and security forces for marksmanship practice and weapons qualification.

Such systems are required by the Indian Army, CRPF, NSG, and state police forces under the Make-in-India initiative. These are often procured as part of modernization and smart training efforts.

CARAVAN CUM OFFICE CONTAINER (CCOC)



- Unique, field-proven mobile shelter system and container solution
- Enables livable conditions in remote areas with ease
- Provides protection from extreme hot and cold climates
- Ensures privacy, personal safety, and security
- Optimizes interior space while maintaining an open-area feel
- Customizable living area with limited modifications to suit customer needs



VIP ARMOURED AND MINE PROOF CAMPAIGN VEHICLE

JCBL Armouring Solutions have aced the customized vehicle armouring in India with highly advanced research and a dedicated development team. The outcome is one of the finest armoured Election Campaign Vans in India.



- A symbol of brilliant engineering
- Perfect blend of aesthetics, functionality, and security
- World-class features include, Electrical lift, Sofa cum bed, Teak wood furnishing, Home theatre, CCTV with DVR, Beverage bar, Massage chair



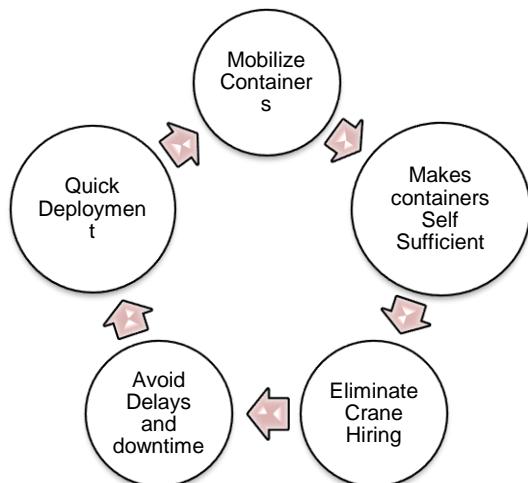
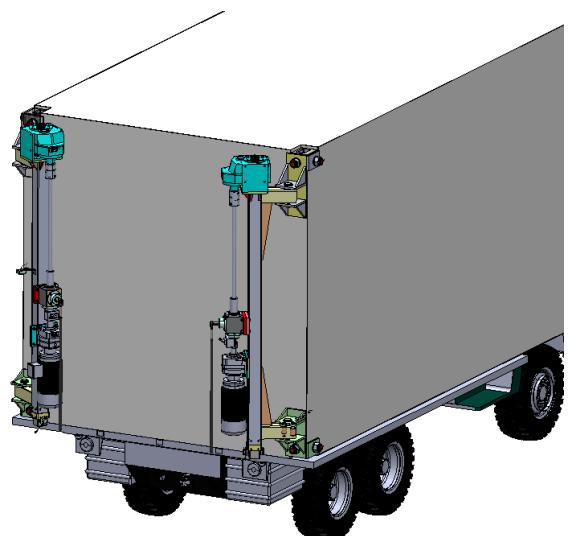
TRACK WITH MINE PLOUGH (TWMP)



Customer: Approved supplier of Indian Army with proven track record

- Designed to clear mines from the track width of the host vehicle
- Protects against surface-laid and buried anti-tank or anti-personnel mines
- Enables rapid passage through mined obstacles by creating a cleared path
- Modular, compact, and electro-hydraulically operated
- Controlled via a Control Unit (CU) mounted inside the driver's compartment

MOTORIZED JACK



The Motorized Jack equips you to rapidly deploy valuable containerized assets, without the costs, delays, and downtime. Motorized Jack is used to lifting of container during deployment & transportation mode. With lift capacities of up to 12 ton, the Motorized Jack is an ideal solution for defense applications, field services, emergency response, event logistics.

Applications:

Automotive / Military Vehicles

- Lifting tanks, 4x4s, armored vehicles for maintenance
- Deployed on ARVs (Armoured Recovery Vehicles)
- Faster and safer than manual jacks

Aerospace

- Raising aircraft platforms for undercarriage service
- Height-adjustable docking for cargo loading systems

Industrial/Engineering

- Heavy equipment maintenance (e.g., presses, generators)
- Robotics & automation systems for adjustable supports

OTHER MANUFACTURING VERTICALS

JCBL Limited is a trusted name in the mobility solutions industry with over 35 years of expertise. The company caters to diverse clientele including renowned Original Equipment Manufacturers (OEMs), Government Ministries, State Transport Undertakings (STUs), top-tier fleet operators, and private enterprises by manufacturing innovative and quality cognizant mobility solutions.

CLIENTS

AUTOMOTIVE OEMS



GOVERNMENT MINISTRIES



STATE TRANSPORT UNDERTAKINGS (STUs)



PRODUCT PORTFOLIO

Passenger Transportation



Super Luxury
Sleeper cum Seater



Luxury Sleeper Bus



School Bus



Staff Bus



Luxury Seater Bus



Electric Bus

Special Application Vehicles



12 Mtr
Motorhome



10 Mtr
Motorhome



Election
Campaign Van



Mobile Service
Vehicle



Service Training
on Wheels



Knowledge on
Wheels



9 Mtr
Motorhome



ATM Van



Museum on
Wheels for ISRO



Display Van

HEALTHCARE VEHICLES



Advanced Life Support Ambulance



Basic Life Support Ambulance



4x4 Ambulance



Mobile Dental Clinic



Blood Donation Vehicle



Mobile Hospital

LOGISTICS/MINING AND CONSTRUCTION



Refrigerated Van



Mobile Fuel Dispenser



Container



Petroleum Tanker



Tipper



Tip Trailer



GE renewable energy –
Flex inverter Containers

PROJECTS



Life Plus+ Ambulances

Designed to provide complete customized solutions for pre-hospital emergencies.

2,000 Ambulances designed for Lilawati Hospital, Mumbai, Fortis Hospital, SML Isuzu, Tata Motors, and Ashok Leyland.



Mobile Hospital

Special Purpose Medical Vehicle designed to carry out healthcare procedures and programs in rural parts.

More than 10 Vehicles designed for Health Department, Haryana Government



Mobile Blood Collection Van

Designed to carry out successful blood donation procedures on wheels.

32 Vehicles designed for NBTC (National Blood Transfusion Council)



HMRI (108 Emergency Response Service)

Designed with a vision to support and enhance capabilities to act and respond promptly in case of emergencies, thus saving the lives of many.

200 Vehicles for Andhra Pradesh (For Largest ambulance care provider in the world covering 800 million people across India and Sri Lanka)



Mobile Dental Clinic

Bringing advanced dental care to the remote communities of Ladakh, the Dental Clinic on Wheels is designed for a **German Client** to facilitate "**Project Smile Himalaya**".



Mobile Museum

A special purpose vehicle designed for ISRO (Indian Space Research Organisation) to showcase their achievements.

7 Exhibition Vans designed for ISRO



Container Offices

Also referred as Sahayata Kendra - a mobile workspace **designed for Delhi Jal Board**.



Caravan

Designed for Kerala Tourism to facilitate and revive tourism industry through project Keravan Kerala.

More than 25 Caravans designed to facilitate and revive tourism industry in Kerala through project Keravan Kerala

Established in 1998 as an ancillary unit of JCBL, Mobility Solutions Limited has grown to become a leading name in India's composites industry. Today, it stands as the largest and most trusted manufacturer and supplier of parts and components for railways, automotive, and industrial applications. With state-of-the-art manufacturing facilities, we offer comprehensive solutions from concept development to final delivery, adhering to customer specifications and both national and international standards.

Clients

Railway Coach, Metro Coach and Locomotive Manufacturers



Automotive OEMs



Industries



MSL Composites combines advanced engineering and innovation to craft FRP/GRP parts such as Front Mask, Interior Paneling, Side Walls, Toilet Modules, and Ceiling Panels for Railways, Metros, Buses and a variety of other applications.

- Front Mask/Nose
- External Garnishing
- Driver Desk and Cab Lining
- Side Wall
- Ceiling
- Driver Cabin Partition Panel
- Gangway
- End Wall
- Electrical Cubical
- Toilet Module
- Vestibule Door
- Battery Cover
- Insulation Tie Ring
- Tie Baffle
- Shroud



RAILWAYS & METRO



Front Mask



Cab Interiors



Coach Interiors



Toilet Modules

AUTOMOTIVE



Fascia



Driver Console



Caravan Interiors



EV Body & Allied Product

DEFENCE & AEROSPACE



Unmanned & Special Technologies



ARCHITECTURE, BUILDING & CONSTRUCTION



Building Facade & Allied Product

MSL Seating Systems is trusted for its commitment to comfort and durability. By engineering Seats, Window Frames, and Components with precision, it delivers reliable solutions.

FOR BUSES

SEATS

- PU Cushion
- Plastic Seat
- Luxury Seat
- Driver Seat
- Reclining Seat

FRAMES AND COMPONENTS

- Window Frame
- Driver Door Lock
- Luggage Door Lock
- Roof Ventilator
- Escape Hatch
- Luggage Rack
- Luggage Rack with AC Duct
- AC Duct
- PU Dash Pad
- Driver Partition
- Front and Rear Fascia

FOR RAILWAYS & METRO

SEATS

- Driver Seat
- Reclining and Bench Type
- Passenger Seat

FRAMES AND COMPONENTS

- DMU/DPC Cabin
- WindowsDriver Cabin
- WindowBody Side Window with Fixed Louver Shutter
- LHB Sliding Glass & Louver Window
- Lavatory Window



Seats for Railways and Automobile



Railway Seats



Bus Seats



Armoured Seats



Ambulance Seats



SAVs Seats

Window Frames and Components for Railways and Automobile



DMU/DPC
Cabin Windows



MRVC Windows



DMU/DPC
Windows



Driver Cabin
Window



Body Side Window
with Fixed Louver Shutter



Co-Driver Door
Window Frame-TMML



Common Slide
Window SML



Emergency Window
Frame-MCV



All Tipper Driver &
Co-Driver Side Openable



Common Sliding
Window-TMML



Ventilator/Escape Hatch



Hat Rack

MSL Techno Fab forges robust solutions in heavy fabrication, engineering precision components in heavy machinery, Aluminum, and general fabrication, delivering excellence to leading OEMs.

- Front and Rear End
- Under Frame
- Bogie Frame
- Side Wall
- Roof
- Door
- Front nose
- Fabrication of structural steel
- Container offices
- MS Structure
- Machined Parts
- Assembly of Equipment
- Storage Tanks
- Liquid Tanks
- Pressurized Tanks
- Aluminium Parts
- Aluminium Parts Assembly



RAILWAY COACH UNDERFRAME



End Part



Front Part



Underframe



Steel Fabrication Tank for Power Transformer

BOGIE FRAME



MRVC Bogie Frame

LHB Bogie Frame

HEAVY MACHINERY GENERAL FABRICATION



RAILWAY COACH ROOF AND SIDE WALL



Railway Coach Roof Complete



Railway Coach SS End Wall

RAILWAY COACH ENTRANCE DOOR



CRADLE ASSEMBLY FOR DRDO (DEFENCE APPLICATION)



Railway Coach Inner and Outer Side Wall

PROJECTS

INDIAN RAILWAYS

ICF Chennai, MCF Raebareli, RCF Kapurthala



VANDE BHARAT EXPRESS

Indian Railways

CHENNAI METRO

ALSTOM



BOMBARDIER
Transportation

REGIO 2N

SYDNEY METRO

ALSTOM



BOMBARDIER
Transportation

TALENT II

MUMBAI METRO

ALSTOM



GE TRANSPORTATION-ALSTOM E LOCO

LUCKNOW METRO

ALSTOM



LHB COACH

TREN MAYA

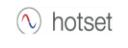
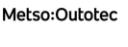
ALSTOM



Measurement and Control Instruments

Aura MAC began its journey with the aim to deliver world-class quality products to its clients and enrich their businesses by adapting to the ever-evolving market scenarios. The company is committed to catering to industry requirements across markets such as Oil and Gas, Nuclear, Power, Petrochemical, Water, Defence, Railways, and OEMs by designing and manufacturing high-quality measurement and control instruments such as instrumentation fittings, valves, manifolds, custom-built products, thermowells among others.

Clients:

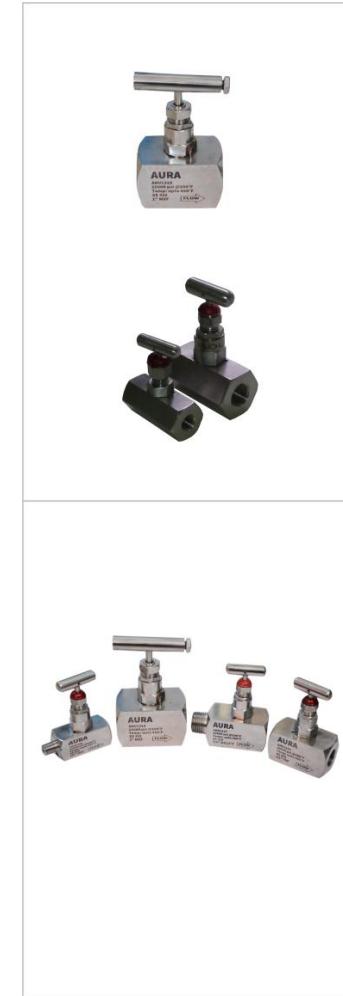
Instrument Valve Manifolds



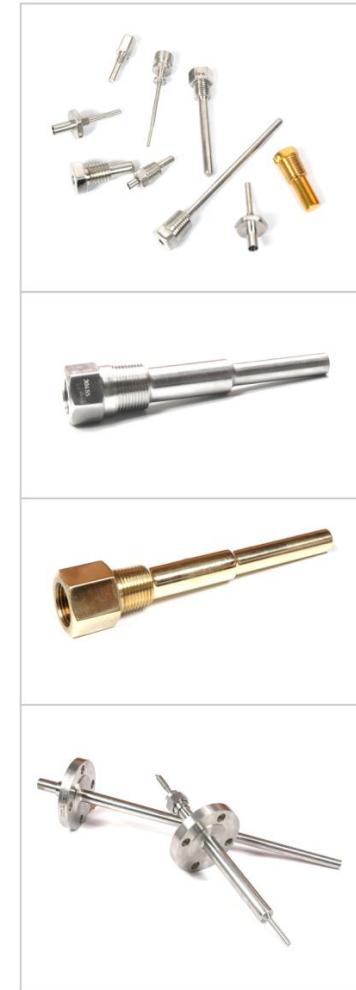
Compression Tube Fittings



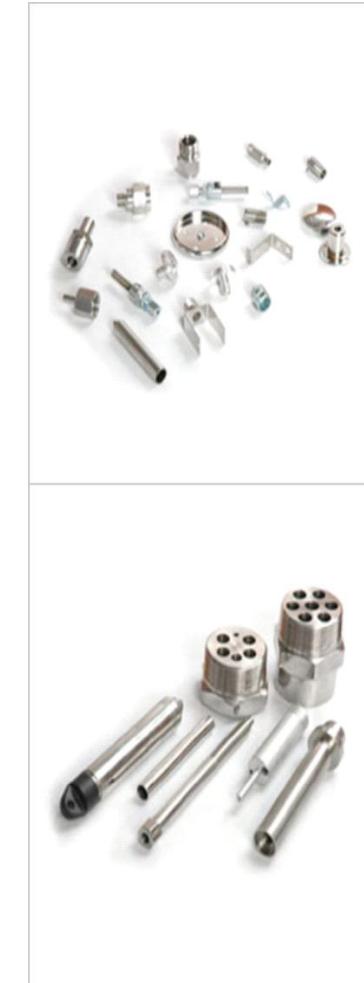
Valves



Thermowells



Custom Built Parts



With an aim to bring innovation to the agricultural sector of India and enable farmers across the country to create endless possibilities, JCBL Agri Solutions was established. The company does this by manufacturing modern agricultural implements which are easy to use, eco-friendly and affordable for all. With state-of-the-art manufacturing facility and a vast dealer network spread across different parts of the country, the company continues to make farming more prosperous and profitable.

Land Preparation

- Rotary Tiller
- Laser Land Leveler
- MB Plough
- Rotary Slasher
- Puddler

Seedbed Preparation

- Super Seeder
- Zero Till Drill

Crop Residue Management

- Mulcher
- Straw Reaper
- Baler



OUR PRESENCE

Connecting aspirations and bringing innovation

Manufacturing

Existing Manufacturing Units

-  JCBL
-  ADSL NORTH
-  MSL
-  MSL COMPOSITES
-  MSL SEATING SYSTEM
-  MSL TECHNO FAB
-  ADSL SOUTH
-  ADSL PARACHUTE FACILITY

ADSL Electronics Lab

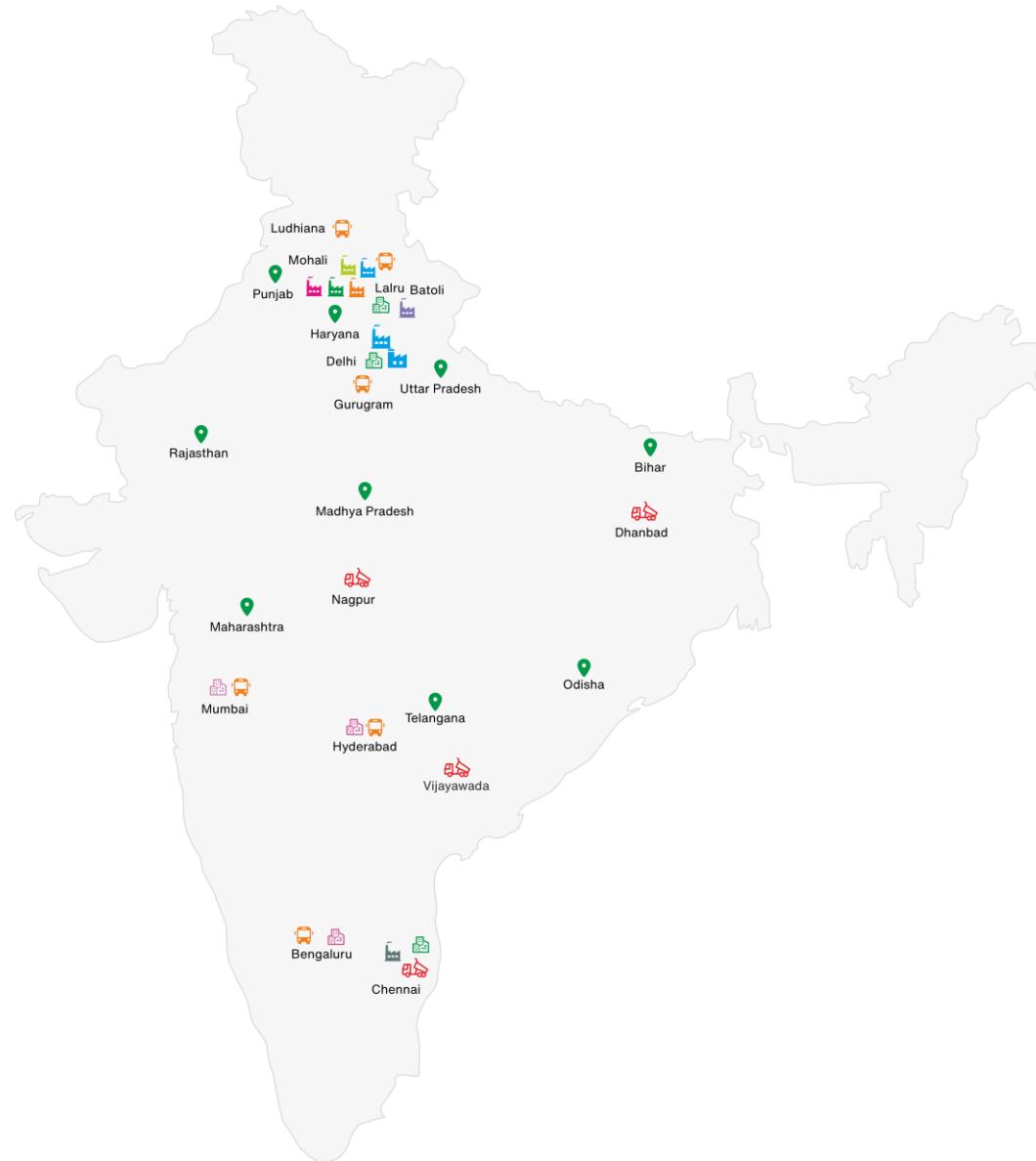
JCBL Marketing Office

-  Existing
-  Proposed

Service Facilities

-  Bus
-  Tipper

Agri Dealer Network



Let's explore possibilities, together.

