

# **PRECISION PROTECTION PROGRESS**

**Striving for a safer future**



## Where Commitment Meets Capability

### ADSL (Defence Division of the JCBL Group)

ADSL leads JCBL Group's push into defence and aerospace systems that are as practical as they are advanced. From armoured vehicle, turrets, hulls and RCWS, trailers to cargo loaders, we design and deliver solutions that meet real-world operational demands on ground, in air, and beyond.

Our work spans four verticals: Aerospace, Land Systems, Combat Vehicle Technology, and MRO & Sustenance. Each is backed by in-house R&D, robust manufacturing, and a sharp focus on survivability, mobility, and electronics. Every product we build is tested, certified, and ready for deployment.

What sets us apart isn't just technology it's the way we apply it. We engineer with purpose, stay aligned with defence protocols, and build systems that are rugged, reliable, and future-focused.



*We don't follow trends. We build what the forces actually need—because that's what matters in the field.*





## Engineering possibilities with precision

### Our 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:** Haryana



#### **ADSL Electronics Lab**

Electronics Design & Development, Combat System Integration

**Location:** Delhi

# BUILT FOR THE MODERN COMBAT

## NEXT GEN SOLUTIONS



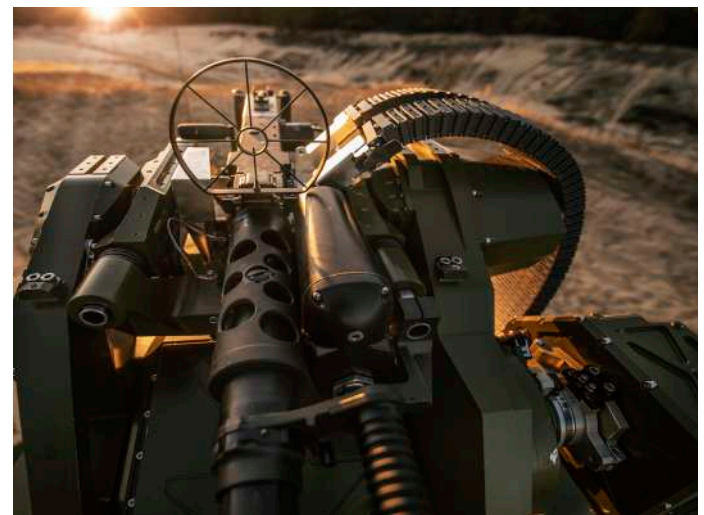
### Aerospace

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

### MRO and Sustenance

Modernization & Localisation of ARVs:

- T72
- T55
- T90
- BMP
- WZT3



### Land System

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

### Combat Vehicle Technology

- RCWS
- Turret
- Active Protection System





## PLATFORM PLUS PARACHUTE SYSTEM FOR AERIAL DROP

Specialized parachute solutions integrated with platforms to support the aerial delivery of heavy military cargo, including vehicles and mission-critical equipment. Designed for air-dropping equipment up to 20 tons from C130 cargo aircraft & C17 cargo aircraft.



## NAVAL CARGO DROP

Naval Cargo Drop system is engineered for the aerial delivery of essential supplies to naval vessels at sea using parachutes or low-altitude deployment methods with C130 and C17 cargo aircraft. This technique ensures swift resupply during military operations, humanitarian missions, or situations where docking is not possible.



## **BRAKE PARACHUTE**

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.



## **MILITARY COMBAT PARACHUTE SYSTEM**

MCPS (Military Combat 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.



## **SELF PROPELLED HYDRAULIC PLATFORM LOADER**

The Self Propelled Hydraulic Platform Loader (HPL) is engineered for efficient loading and offloading of heavy-drop cargo with precision movement to align with the aircraft i.e. Pitching, Rolling, Side Shifting and Inching mode.. It plays a vital role in transporting loads from the aerial port to the aircraft tarmac with precision and safety and is Capable of transporting up to 20,000 kg of cargo.



## MAINTENANCE REPAIR & OVERHAUL (MRO) OF BATTLE TANKS, INFANTRY COMBAT VEHICLE & ARMoured RECOVERY VEHICLES

We specialize in the refurbishment and modernization of both tracked and wheeled Armoured Recovery Vehicles.



### Specialties:

- Overhaul & Up-gradation of ICV / IFV – BMP I / II / IIK
- Design, refurbishment and modernization of **Armoured Recovery Vehicles VT 72**
- Condition based Repair, Replacement & Refurbishment of parts of **Armoured Recovery Vehicle WZT-3**
- Maintenance, Repair & Overhaul of Bridge Laying Tanks
- Overhaul & Repair of Tank T 90 & T 72 Variants

Engine Compartment



Hull



Crew Compartment



Overhauled Turret



Disassembly



Turret Prior Overhaul





## SUSTENANCE

The sustenance vertical of ADSL looks after the supply chain of parts/components of critical war like equipment including

- Battle Tanks (T90, T72)
- Infantry Carrying/Fighting Vehicles (ICV/IFV) BMP I/II/III
- Armoured Recovery Vehicles
- High Mobility Vehicles
- Artillery Guns
- Air Defence Systems
- Communication Systems
- Radars/Jamming Systems and similar Electronics/Electrical/Mechanical Equipment of the Defence Forces.

Under this vertical, we also manufacture wire harnesses for battle tanks, artillery guns, radars, and other vehicle or electronics based equipment.

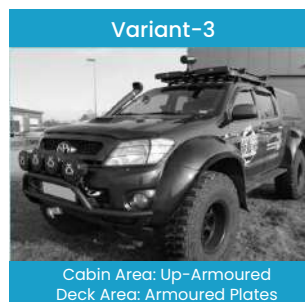
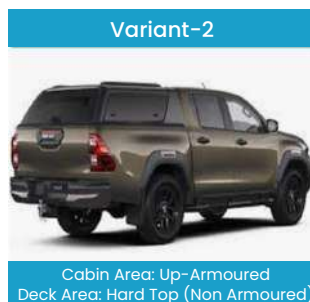
Our sustenance operations are supported by strategically located warehouses not only in major cities but also at forward military bases. These facilities are stocked with critical components and ensure uninterrupted support to the defence forces at their deployment locations throughout the year, especially in extreme cold weather conditions when material mobility is negligible.





## ARMoured CABINS

Engineered for 4x4, 6x6 and 8x8 vehicles, these reinforced cabin ensures crew safety in hostile environments. Designed for NIJ-III and Stanag-1 level protection to withstand blast pressure, high-temperature exhaust, and ballistic threats whilst providing maximum protection without compromising mobility.

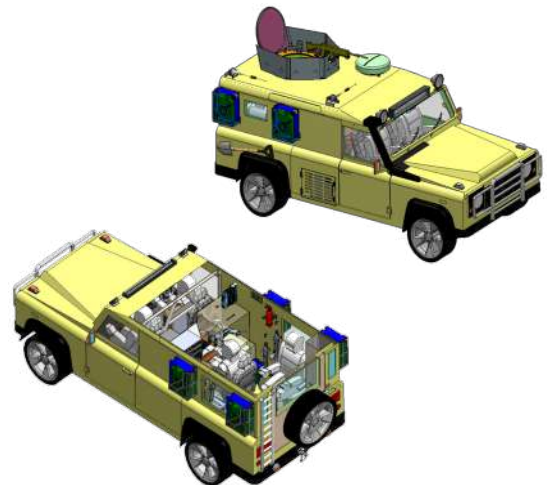


## Armoured & Combat Vehicles: For specific mission profiles

Built on the rugged Hilux chassis, ADSL's armoured capsule-based LBPV offers enhanced protection against small arms fire and underbody grenade blasts. Designed for quick mobility and tactical operations, it is ideal for Defence, Para Military, and Police forces engaged in high-risk zones.

## MODIFICATION OF LIGHT STRIKE VEHICLE (LSV)

Development of a Mobile Command & Control Centre based on the Force Motors Light Strike Vehicle (LSV) platform. ADSL's scope includes complete body development, communication infrastructure, power system integration, and end-to-end testing.



Land Cruiser 300



BMW 7-Series



Mercedes Benz GLE 350d



Toyota Fortuner



Toyota Vellfire



Rolls Royce Cullinan



Range Rover



Mercedes Benz E-Class

## BULLETPROOF VEHICLES

As one of India's leading armoured vehicle manufacturers, JCBL combines advanced engineering with cutting-edge technology to deliver high-performance protection solutions for civilian use. Our expert team specializes in the design, development, and prototyping of lightweight yet robust bulletproof vehicles.

## VIP ARMoured AND MINE PROOF CAMPAIGN VEHICLE

One-of-a-kind election campaign van is a benchmark in secure mobility—blending state-of-the-art engineering with unmatched comfort and style. Developed through advanced research and precision customization, it stands as a symbol of security, innovation, and impact.







### 50 Ton Hydraulic Trailer

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



### 50 TON MECHANICAL TRAILER: HEAVY DUTY TANK TRANSPORTER

12 Twin-wheeled Heavy-Duty Full Trailer Designed for Rough terrains. It has a payload Capacity of 50 Tons and is used for Transporting Battle Tanks in the Indian Army.



### 32 FEET LOADER TRAILER

The 32-foot tow-able loader trailer equipped with the power pack to perform various operations is specifically engineered to transfer/carry the payload from load preparing area to the airfield. Purpose-built for Airport Ground Support Equipment (AGSE), Designed for tactical and strategic military support, this trailer offers unmatched reliability and strength in ground operations.



### 70 Ton Trailer

Designed for rugged terrains, it ensures seamless transportation of medium to heavy equipment. It has a 70-ton payload capacity, accommodating tracked vehicles, earth movers and heavy machinery, it is built to meet IRC Class 70-R standards for axle, road, and bridge classifications



### **HAND HELD COUNTER DRONE SYSTEM (HCDS)**

The Hand Held Counter Drone System (HCDS) is a compact and portable solution, designed for easy single-person operation in field conditions. It enables rapid detection and neutralization of unauthorized or hostile drones at short to medium ranges, without causing physical destruction. Ideal for tactical missions, border surveillance, and VIP protection, the HCDS provides an effective and reliable defense against drone threats in sensitive environments.



### **Man Portable Anti-Drone System (MPADS)**

MPADS is a lightweight, modular solution combining an RF drone detector (carried in a backpack) with a Hand Held Directional Jammer Unit/Omni Directional tripod mounted.

It is a lightweight, modular, and soldier-centric solution tailored for tactical operations. The system enables rapid drone detection, tracking, and neutralization. Engineered for quick deployment and low visual and acoustic signatures, MPADS delivers consistent performance across challenging terrains and weather conditions. Its versatility makes it ideal for jungle warfare, urban combat, and other high-risk mission scenarios.



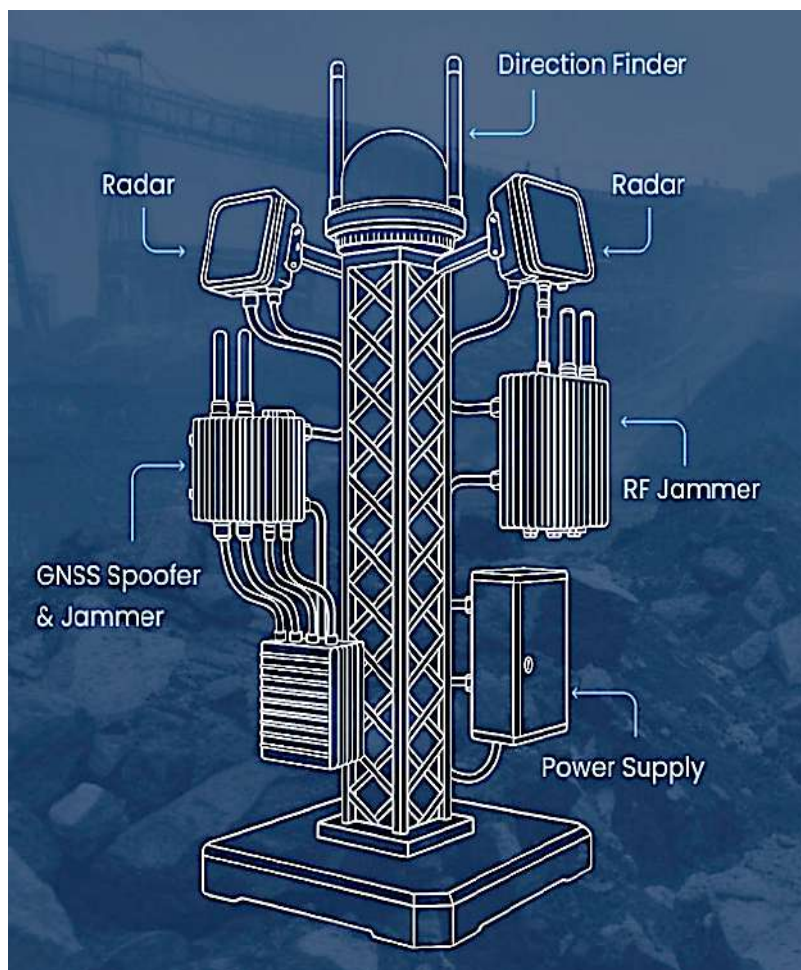
### **Net Catcher Anti-Drone System (NCADS)**

The Net Catcher Anti-Drone System (NCADS) is a cutting edge, drone mounted interception solution engineered to capture hostile drones intact. Utilizing a net firing mechanism, NCADS deploys a precision net to entangle, neutralize, and, if necessary, tow enemy UAVs to a secure location. This system is designed for visual range interception, enabling the safe disabling of drones without causing physical destruction. By preserving the integrity of captured drones, NCADS facilitates detailed forensic analysis, data retrieval, or secure disposal making it a valuable asset in tactical defense operations.



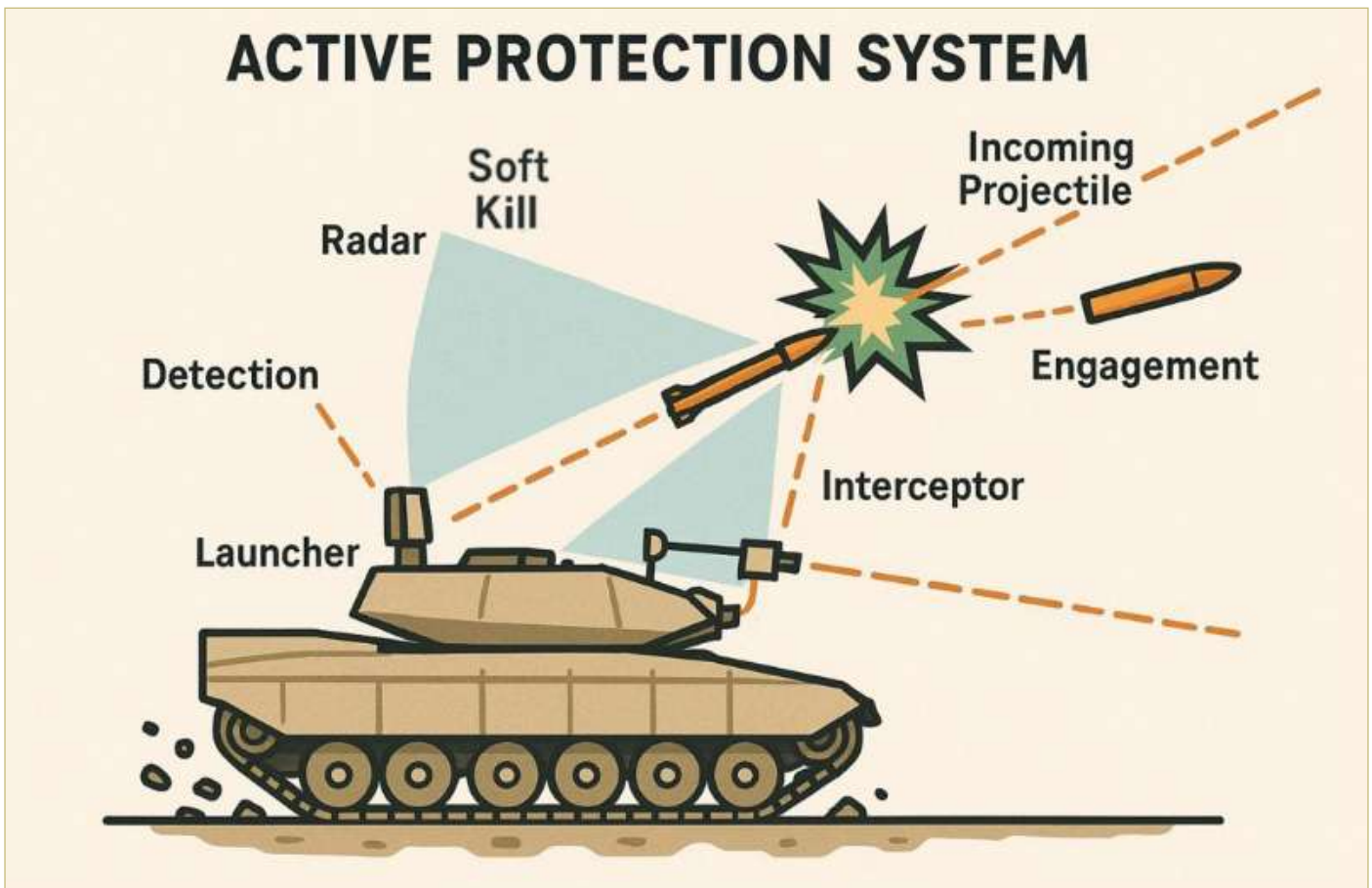
## Vehicle Mounted Anti Drone System (VMADS)

The Vehicle Mounted Anti-Drone System is a state of the art mobile platform engineered to detect, track, and neutralize unmanned aerial vehicles (UAVs) and drones. Equipped with an integrated suite of advanced technologies including radar, electro-optical sight systems, electronic warfare capabilities, and directed energy weapons it offers a comprehensive defense solution against a wide range of drone threats. This system ensures rapid response and effective protection in dynamic operational environments.



## Infrastructure Protection Drone System (IPDS)

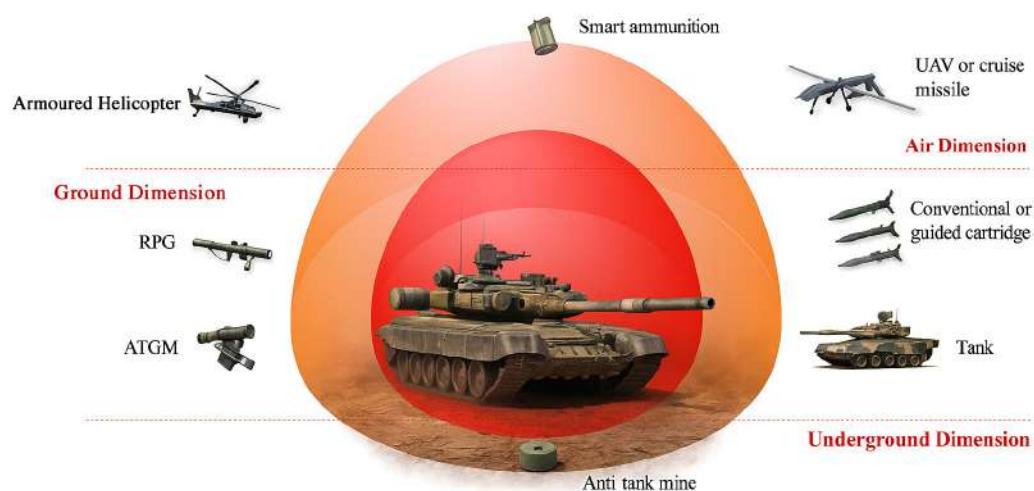
The Infrastructure Protection Drone System (IPDS) is a fully integrated, multi-layered defense solution designed to safeguard critical infrastructure from unauthorized drones and aerial threats. Combining autonomous aerial surveillance with rapid response capabilities, IPDS effectively counters physical intrusions, sabotage, and airborne attacks. It ensures round-the-clock perimeter monitoring, anomaly detection, and real-time threat response. Powered by advanced sensors, AI-driven analytics, and optional deterrence modules, the system minimizes human intervention while significantly improving reaction times during security breaches. IPDS offers a robust, intelligent, and proactive approach to modern infrastructure protection.



### 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.

- 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







## RCWS (REMOTE CONTROLLED WEAPON SYSTEM)

The Remote Controlled Weapon System (RCWS) is an advanced, fully indigenous solution designed for precision and crew safety. Developed with in-house ballistic computing, servo drive, and stabilization logic—backed by a European partner—it features a fully overhead CANNA 50 for protection and high Line of Fire accuracy through the latest SRCS. With digital LoF and LoS stabilization and compatibility across multiple calibers, the RCWS offers versatile deployment for modern combat needs.



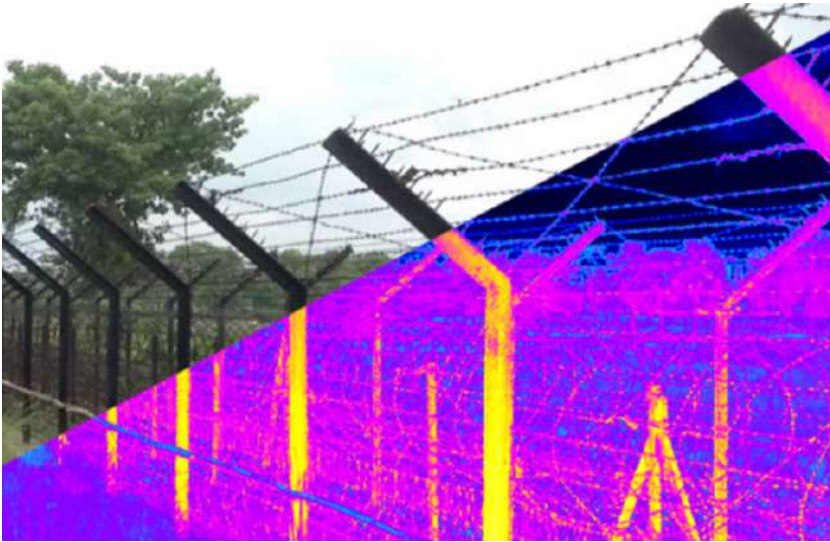


## TURRET SYSTEM

Engineered for versatility, this turret system is compatible with both tracked and wheeled combat vehicles such as BMP-1, BTR-70/80, and OT-64. Its modular welded structure supports externally mounted weapons and is optimized for future upgrades, including higher calibers and air defence systems. With 360° traverse, a firing elevation from  $-4^{\circ}$  to  $+50^{\circ}$ , and reliable performance from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ , it ensures all-weather, on-the-move effectiveness. The system integrates electric weapon control with manual backup, strong ballistic protection, and accommodates crew essentials—making it a globally preferred solution for modern combat needs.







## Border Surveillance and Perimeter Protection

Border Surveillance and Integrated Perimeter Security Systems are comprehensive, multi-layered defence solutions designed to secure sensitive installations such as airbases and border posts.

- Electric Smart Power Fence- Equipped with vibration detection for initial security layer.
- High-Resolution IR and Thermal Cameras- Integrated with inbuilt video analytics for real-time intrusion detection.
- Underground Vibration Detection Systems- Use buried optical fiber cables to identify threats, including tunneling activities.
- Radars- Integrated with radar and sensor inputs for automated detection and tracking of targets across challenging terrain and weather conditions.
- Command Control Centre-Uses AI-driven analytics to filter false alarms and provide live intruder tracking via 3D mapping.
- Coordinates rapid response actions.
- Specialized Surveillance Drones- Provide aerial monitoring and enhance real-time situational awareness.
- Redundant Optical Fiber Communication Network- Ensures seamless system integration and continuous operational effectiveness.



# When inspired minds come together, miracles happen

## JCBL Group

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

Beginning with its initial foray into mobility solutions, the Group has today established a robust presence across key sectors of the economy—including Mobility Applications, Defence and Aerospace, Parts and Components for Railways, Buses and Industries, Agriculture and International Business.

**35+ years | 5 Manufacturing Facilities |**  
**216.87 million USD | 20% CAGR | 500+ Clients | 30+ Countries |**  
**2.76 Million Square Feet Manufacturing Area |**  
**3000+ Trained Professionals**





# Touching a billion lives everyday

## JCBL Group diverse manufacturing interests



### Mobility Applications

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



### Parts & Components

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



### Defence & Aerospace Solutions

- Aerospace
- MRO and Sustenance
- Combat Vehicle Technology
- Land System



### Measurement & Control Instruments

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



### Agricultural Implements

- Land Preparation
- Seedbed Preparation
- Crop Residue Management

# A promise of trust and commitment

## Certifications and Approvals



IATF 16949



ISO 9001:2015



CMMI Level 3



ISO/IEC 27001:2013



EN ISO 3834-2:2005



EN 15085-2



AS 9100



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



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