

“स्वावलम्बनं भारतम्”



**VAANI PRECISION
INDUSTRIES**



**INDRASETU
DEFENCE SYSTEMS**

**A JOINT VENTURE IN PRECISION &
DEFENCE, POWERING INDIA'S
SELF-RELIANCE**

AN IDEA WAS BORN -

A COALITION TO EMPOWER THE VISION OF ATMANIRBHAR BHARAT

Inspired by the vision of Atmanirbhar Bharat, the collaboration between Vaani Precision Industries and Indrasetu Defence Systems Pvt Ltd was formed to strengthen India's indigenous manufacturing and defence capabilities.

ENVISIONED AND GUIDED BY:

- **Lt. Gen. Sanjay Verma (Retd.)**, Strategic Advisor – Indrasetu Defence Systems Pvt Ltd
- **Mr. Parveen Khosla**, CEO – Vaani Precision Industries | Director – Indrasetu Defence Systems Pvt Ltd
- **Mr. Girdhari Mantri**, Director – Indrasetu Defence Systems Pvt Ltd
- **Mr. Sunil Khemka**, Director – Indrasetu Defence Systems Pvt Ltd
- **Mr. Satish Sood**, Director – Indrasetu Defence Systems Pvt Ltd

Together, they formed a coalition of expertise – uniting engineering precision, defence integration, and industrial innovation shaping the strategic direction of the joint venture, to propel India's journey toward technological sovereignty.



A STRATEGIC ALLIANCE IN PRECISION AND DEFENCE, EMPOWERING ATMANIRBHAR BHARAT.

Born from a vision of national pride and technological progress, the Vaani–Indrasetu partnership stands as a testament to India's engineering strength and commitment to self-reliance.

A JOINT VENTURE & COLLABORATION

The collaboration between Vaani Precision Industries and Indrasetu Defence Systems Pvt Ltd represents a strategic alliance founded on innovation, trust, and national purpose.

PURPOSE OF THE COLLABORATION

This joint venture aligns with India's Defence Industrial Policy, fostering collaboration with foreign OEMs to enable technology transfer, knowledge exchange, and local value creation – contributing to import substitution through the development of indigenous defence solutions built entirely in India.



DRIVING INDIGENOUS CAPABILITY

To advance indigenous manufacturing and reduce dependence on imports through localized production.



SEAMLESS INTEGRATION OF STRENGTHS

Combining Vaani's precision manufacturing with IndraSetu's defence integration for complete subsystem design and execution.



ALIGNED WITH ATMANIRBHAR BHARAT

To contribute to Atmanirbhar Bharat and Make in India, reinforcing India's position as a self-reliant defence manufacturing hub.



FACILITATING TECHNOLOGY TRANSFER & OEM PARTNERSHIPS

To collaborate with domestic and foreign OEMs for technology transfer, knowledge sharing, and advanced capability development.



EXPANDING GLOBAL REACH

To promote India's defence engineering capabilities worldwide, delivering scalable, export-ready solutions that reflect technological excellence.

The Vaani–Indrasetu partnership stands as a symbol of India's evolving defence manufacturing capability – a collaboration that empowers indigenous innovation, strengthens strategic autonomy, and redefines self-reliance in national security.

"COLLABORATING GLOBALLY, BUILDING INDIGENOUSLY."



AT A GLANCE VAANI PRECISION INDUSTRIES

Founded in 2005, Vaani Precision Industries is a trusted name in high-precision manufacturing company serving India's Defence, Railways, Automotive, and Aerospace sectors.

With advanced CNC and VMC machining, in-house fabrication, and ISO-certified quality systems, we deliver components and assemblies that meet the most demanding global standards.



OUR MANUFACTURING STRENGTH



CNC & VMC
MACHINING



FABRICATION &
ASSEMBLY



QUALITY & METROLOGY



PROTOTYPING TO
PRODUCTION

AREAS WE SERVE

- **Defence:** Indigenous precision components and subassemblies supporting DRDO, Ordnance Factories and national defence programs.
- **Aerospace:** High-accuracy flight critical and non-flight critical components built to meet global aviation standards.
- **Railways:** Development and regular production of critical safety components and assemblies like Brake Gear Arrangement for WAG-9/WAP-7 locomotive for performance and reliability in rolling stock.
- **Automotive:** Precision shafts, bevel gears, truck hooks, tow hitches and drive components designed for OEM and Tier-1 applications.
- **Agricultural Machinery:** Mass production and development of sensitive components for tractors, combines like 5 speed (Wet Brake Housing), fork, stub axle, and other NPT parts.

PRODUCT PORTFOLIO

- At Vaani Precision Industries, our product range reflects our commitment to accuracy, reliability, and performance.
- Each component is engineered with CNC precision, built from certified materials, and rigorously tested to meet stringent ISO and defence-grade standards.



RAILWAY COMPONENTS

- Hand Brake Set for LHB Power Car Coach
- Brake Gear Arrangement for WAG-9/WAP-7 locomotive
- Brake Head
- Control Arm
- Stiffer Cam Shaft
- Centering Discs
- Pins and Bushes

DEFENCE COMPONENTS

- Base Transit
- Core Barrel
- Charge Carrier
- Protecting Ring
- Pin Cat

AEROSPACE COMPONENTS

- Distance Bush
- Under development - flight critical and non-flight critical components



AUTOMATIVE COMPONENTS

- Motor Cycle Assembly
- 5th Wheel Hitch Standard
- 5th Wheel Hitch Slider
- Truck Hook Double Ball
- Truck Hook Triple Ball

AGRICULTURAL COMPONENTS

- 5 Speed wet housing
- Stub axle
- Differential Cage
- Swivel Housing
- Fork
- Intermediate Plate
- Shaft Assembly Brake Pedal Outer
- Shaft Assembly Brake Pedal inner
- Swinging Drawbar Assembly

PRODUCT SAMPLES

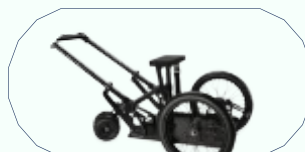
Vaani Precision Industries



Hand Brake Assembly



Brake Rigging Assembly



Camera Trolley



5th Wheel Hitch Standard



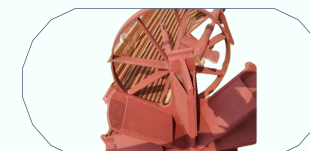
Tractor Gear Fork



Stub Axle Assembly



5 Speed Wet Housing



Charge Carrier



Pin Cat



Differential Cage



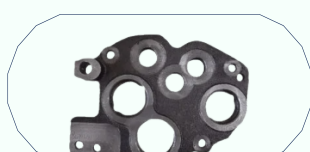
Tow Hitch 3 ball



Protecting Ring



Swivel Housing



Intermediate Plate



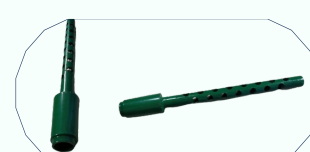
Brake Head



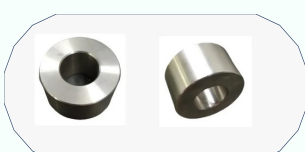
Cam Shaft



Base Transit



Core Barrel



Distance Bush



Trailer Dolly

CLIENTS & COLLABORATORS



INDIAN RAILWAYS



भारत डायनामिक्स लिमिटेड
BHARAT DYNAMICS LIMITED
BDL HYDERABAD



ORDNANCE FACTORIES



HINDUSTAN
AERONAUTICS LIMITED



ACE



PREET AGRO INDUSTRIES



PREET TRACTORS



ORDNANCE FACTORY
MURADNAGAR



AT A GLANCE INDRASETU DEFENCE SYSTEMS PVT. LTD

Incorporated in 2025 and headquartered in Nagpur, Maharashtra, Indrasetu Defence Systems Pvt Ltd, is dedicated to defence systems integration and tactical engineering solutions.

Our mission is to strengthen India's defence capabilities through indigenous technologies, aligning with an vision of Atmanirbhar Bharat.



CORE AREAS OF EXPERTISE

With large opportunities emerging under the Make in India initiative and the drive toward indigenization, Vaani Precision Industries and Indrasetu Defence Systems Pvt Ltd have embarked on taking up these projects.

DEFENCE SYSTEMS INTEGRATION



TESTING & VALIDATION



From Concept to Deployment — Engineered for Precision, Performance, and Reliability.

COLLABORATIVE STRENGTH

Strategic Partnerships with Vaani Precision Industries ,we unite manufacturing excellence with system integration expertise to empower India's defence ecosystem.

COMBINED VALUE PROPOSITION

UNIFYING PRECISION ENGINEERING WITH DEFENCE INTEGRATION

Together, this Joint Venture delivers end-to-end defence engineering solutions, from mechanical assembly and rapid design to validation and scalable mass production, ensuring performance, reliability, and indigenous capability.

OUR CORE SYNERGIES

DESIGN

- Integrated R&D, CAD/CAM modeling, and rapid prototyping for customized subsystems.

1

2

MANUFACTURE

- Advanced CNC and VMC machining, precision fabrication, and assembly facilities certified under ISO and QCD frameworks.
- Proven track record in railway, aerospace, and defence-grade components with consistent quality and scalability.

INTEGRATE

3

- Defence subsystem integration encompassing mechanical assembly, rapid design, validation, and scalable mass production solutions.
- Focus on compatibility, reliability, and field readiness for mission-critical applications.

4

SUSTAIN

- Lifecycle support including maintenance, upgradation, and spares supply, ensuring long-term operational excellence.

"FROM DESIGN TO DEPLOYMENT — WITH INDIAN EXCELLENCE."

TOGETHER, WE BUILD INDIA'S DEFENCE STRENGTH.

QUALITY & COMPLIANCE

- At the Vaani-Indrasetu Joint Venture, quality is not just a process — it's our culture. Every component and assembly is engineered with uncompromising accuracy, backed by a commitment to global standards and defence-grade reliability.
- The Joint Venture operates under ISO-certified systems and adheres to stringent defence and industrial protocols, ensuring excellence from design validation to final inspection.

OUR QUALITY FRAMEWORK

ISO / QCD Process Discipline-

All operations follow certified ISO quality systems and QCD (Quality, Cost, Delivery) metrics ensuring consistency, efficiency, and customer satisfaction.

Inspection & Metrology Infrastructure-

Equipped with CMMs(proposed), UTM, Brinell Truemet Hardness Tester, roughness tester, gauges, and testing instruments for dimensional and structural accuracy.

Compliance with Defence & Aerospace Standards-

Processes align with DRDO, HAL, and OFB quality requirements, adhering to international defence manufacturing protocols and documentation systems.

Stage-Wise Quality Control-

100% in-process and post-production inspections at every critical stage — machining, assembly, finishing, and dispatch.

Continuous Improvement & Audit Culture-

Regular internal audits, calibration programs, and quality training ensure ongoing compliance and performance optimization.

Material Test Certificates (MTCs)-

All inputs whether SS, Aluminium Grades or EN Series are traceable through supplier MTCs and validated against defence and industrial standards before machining or fabrication begins.

- Through advanced metrology, testing, and digital quality control systems, every product undergoes rigorous evaluation to guarantee performance, durability, and compliance — reflecting our core values of precision, integrity, and trust.

ALIGNMENT WITH NATIONAL VISION

Marching in this journey, the path shown by hon'ble prime minister towards atmanirbhar bharat and vikshik bharat@2047 –

DRIVING INDIA'S SELF-RELIANCE THROUGH ENGINEERING EXCELLENCE

The Vaani-Indrasetu Joint Venture stands as a symbol of India's industrial transformation – advancing the goals of Atmanirbhar Bharat and Make in India through indigenous design, manufacturing, and system integration.

OUR COMMITMENT IN ACTION

- **LOCAL CONTENT DEVELOPMENT**

Prioritizing domestic sourcing and component manufacturing to ensure maximum Indian value addition across our projects.

- **INDIGENOUS PRODUCT INNOVATION**

Designing and producing critical defence subsystems and precision assemblies developed entirely in India – compliant with global performance standards.

- **TECHNOLOGY TRANSFER & COLLABORATION**

Collaborating with DRDO, DPSUs, and private industries to translate research into real-world deployable systems under "Make in India" and "Make for the World."

- **CAPACITY BUILDING & SKILL DEVELOPMENT**

Establishing training programs and technical partnerships to nurture a new generation of Indian engineers, machinists, and innovators.

OUR VISION

Every initiative under this collaboration reinforces the government's mission to make India a global hub for advanced engineering and defence manufacturing, powered by innovation, precision, and national pride.

OVERVIEW

WHY THIS PARTNERSHIP MATTERS

The collaboration between Vaani Precision Industries and Indrasetu Defence Systems Pvt Ltd represents a strategic step toward India's self-reliance in precision engineering and defence manufacturing.

By combining Vaani's advanced manufacturing capabilities with IndraSetu's defence integration expertise, this alliance delivers indigenous, high-performance solutions that reduce import dependency and strengthen India's sovereign supply chain.

OUR SHARED PURPOSE

- To advance India's Atmanirbhar Bharat mission in the defence and aerospace sectors.
- To create end-to-end indigenous manufacturing ecosystems — from design to deployment.
- To enable technology transfer, local value addition, and sustainable industrial growth.

THE IMPACT

A partnership built on innovation, precision, and national commitment — empowering India to design, produce, and sustain its own defence systems with world-class standards.

PRECISION MANUFACTURING + DEFENCE SYSTEMS IN INDIA

A collaboration inspired by the spirit of self-reliant India, bringing together innovation, engineering excellence, and national commitment.

LEADER'S SPOTLIGHT

Strategic Vision for India's Defence Future



Lt. Gen. SANJAY VERMA -(PVSM, AVSM, VSM, Bar to VSM)

Strategic Advisor – Indrasetu Defence Pvt Ltd

Lt. Gen. Sanjay Verma (Retd.), former Director General of Capability Development, Ministry of Defence, led transformative programs for the Indian Army. With over four decades of service, he pioneered modernization initiatives spanning acquisitions, logistics, and strategic planning, driving India's march toward AtmaNirbhar Bharat in defence manufacturing.

OUR TEAM



Mr. PARVEEN KHOSLA

Chief Executive Officer – Vaani Precision Industries | Director - Indrasetu Defence Systems Pvt Ltd

Mr. Parveen Khosla, Founder & CEO of Vaani Precision Industries, leads a dynamic team delivering high-precision engineering solutions for Defence, Railways and Aeronautics. His focus on quality, innovation and customer trust has positioned Vaani Precision as a dependable partner within India's advanced-manufacturing landscape.



Mr. GIRDHARI MANTRI

Director – Indrasetu Defence Systems Pvt. Ltd. | Representative of Mantri Group

Mr. Girdhari Mantri is a seasoned industrial leader and social visionary known for his pioneering work in industry development, CSR, and agricultural innovation. As Representative of the Mantri Group and a core member of several national forums, he continues to champion initiatives that integrate sustainability, rural development, and industrial advancement in India's growth story.



Mr. SUNIL KHEMKA

Director – Indrasetu Defence Systems Pvt. Ltd. | Chairman – Khemka Group

Mr. Sunil Khemka, Chairman of Khemka Group, is an accomplished business leader with over three decades of experience in manufacturing, logistics, and industrial innovation. Under his stewardship, the Khemka Group has evolved into a multi-sector conglomerate rooted in quality, integrity, and modernization—now contributing its engineering capabilities to India's growing defence-manufacturing ecosystem.



MR. SATISH SOOD

Director – Indrasetu Defence Systems Pvt. Ltd.

Mr. Satish Sood, is a Director in one of the top MSOs of Nagpur, he has also been in Restraunt Business for over two Decades, he has also entered in Honeycomb Cooling Pads Industry in 2024. Satish has been recognized for his Ability to lead teams, and Deliver Measurable results.

FUTURE ROADMAP

3-5 Year Plan

**EXPAND MACHINE BASE
& AUTOMATION**

**DEDICATED DEFENCE
CELL & LABS**

**DEFENCE GRADE
CERTIFICATIONS**

**R&D AND NEW
PRODUCTS LINES**

WHY CHOOSE US

Precision • Partnership • Performance



PROVEN PRECISION MANUFACTURING

Decades of experience in precision machining, fabrication, and assembly with reliability and performance.



INTEGRATED DESIGN-TO-DEPLOYMENT SOLUTIONS

End-to-end in-house capability – from concept design and rapid prototyping to validation and scalable production, ensuring speed and quality.



NATIONAL COMMITMENT

Advancing Atmanirbhar Bharat and Make in India through indigenous innovation, local value creation, and technology-driven self-reliance.



PROVEN PRECISION MANUFACTURING

To advance indigenous manufacturing and reduce dependence on imports through localized production.



UNCOMPROMISED QUALITY

Guided by ISO-certified systems, defence-grade standards, and a zero-defect philosophy, ensuring excellence from design to delivery.

" TRUSTED BY DEFENCE. POWERED BY PRECISION. DRIVEN BY INDIA."

CALL TO ACTION

LET'S COLLABORATE

PARTNER WITH US TO BUILD INDIA'S FUTURE IN DEFENCE MANUFACTURING

Join hands with a trusted Indian consortium combining precision manufacturing excellence and defence system integration expertise.

Together, we can drive innovation, localization, and capability development for a stronger, self-reliant India.

HOW WE CAN ENGAGE

CONNECT TECHNICAL & PROCUREMENT TEAMS

→ Initiate a joint discussion or evaluation to align on project requirements, technical capabilities, and precision objectives.



PILOT PROJECT / PROTOTYPE APPROVAL

→ Launch a small-scale prototype or test program to validate design performance, quality standards, and process efficiency.

SITE VISIT / AUDIT OPPORTUNITY

→ Experience our facilities, process controls, and defence-compliant infrastructure firsthand.

NDA & DRAWING EXCHANGE

→ Formalize collaboration through an NDA and technical drawing exchange, enabling detailed feasibility assessment and project planning.

"FROM DISCUSSION TO DELIVERY — ENGAGING WITH PRECISION."

APPENDIX / TECHNICAL REFERENCE

• MEDIA GALLERY



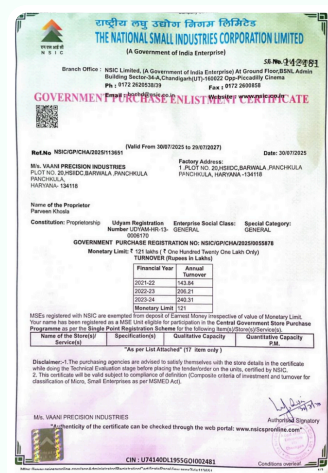
• CERTIFICATIONS



ISO CERTIFIED



MSME CERTIFIED



NSIC CERTIFIED

CONTACT US



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