



# TITAN DEFENCE SYSTEMS LIMITED



DEFENCE PARK  
UNDER  
MAKE IN INDIA

# About Us

Titan Defence Systems Ltd (TDSL) is a startup based out of Hyderabad in India, incorporated in the year 2021. We are proposing to establish Defense manufacturing hub for Home Land Security purpose at Jhansi Node in Uttar Pradesh Defense Corridor.

We started as trading company specializing in import of Advanced, Ballistic, Composites and Strategic Materials through its subsidiary Titan Metals & Minerals Ltd (TMML) for defense and space as approved defence vendor.

TDSL is head by K.Giri Kumar as Chairman & CEO and assisted by C.Dinesh Kumar, S.Rajendra Kumar, K.Vijay Srikanth and M.Sridhar Rao as Board of Directors

TDSL is in position of 6000 acres of land through its subsidiary company Titan Aviation & Aerospace India Ltd (TAAIL). A portion land will be converted into Defence Enclave for the various allied activities mentioned below.

The idea behind the project is import substitution, upgradation, modernization and manufacturing of defence systems in India which includes leasing, design bureau, test facilities, maintenance facilities, certification and finally assembly to production line. This involves process, procedure, product and production.

TDSL will execute this project in various phases under (Atmanirbhar Bharat) Self Reliant India.

Phase 1 will focus on Skill Development, whereas Phase 2 will be Maintenance and Upgradation and Phase 3 will be Manufacturing Hub.

In **Phase 1** TDSL will be commencing with Defence Simulators for Fighter Jets, Attack Helicopters, Battle Tanks and Submarines for Indian Armed Forces.

In **Phase 2** TDSL will be developing deep maintenance centers for Military Aircrafts, Helicopters, MIG & Sukhoi Engines. Upgradation and Modernization plant for Battle Tanks to Main Battle Tanks and Optronics for various defence systems.

In **Phase 3** TDSL will be specializing in manufacturing of Military variant Aircrafts, Helicopters, Engines for Fighter Jets and other defence systems. New generation Multi Terrain Battle Tanks known as Future Infantry Combat Vehicle and Future Ready Combat Vehicles (FICV & FRCV) Armored Personal Carriers. Body Armor Jackets, Bomb Blankets, Doods, and Spheres for Missiles and

UAV's in the Defence Hub.

## Our Team



**Lt Gen J.K.Sharma**  
(Honorary Chairman)



**K.Giri Kumar**  
Chairman & CEO



**Alexander Chechel**



**Benton Wilcoxon**



**Alexander Loss**



**Volodymyr Tit**



**C.Dinesh Kumar**



**S.Rajendra Kumar**



**K.Vijay Srikanth**



**M.Sridhar Rao**



# Defence Hub



# Our Collaborators



# Phase 1

## Defence Simulators



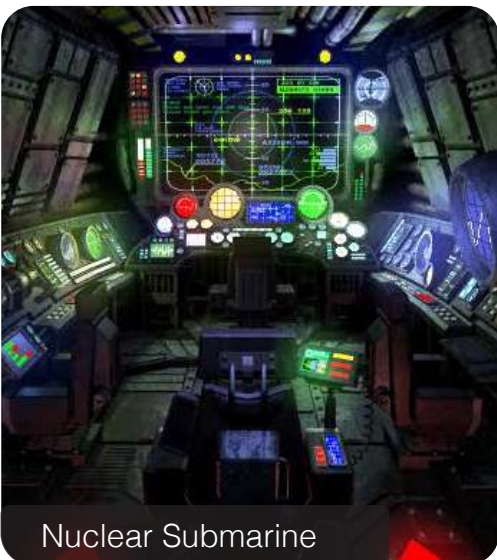
Sukhoi-30



MiG-29



Attack Helicopter



Nuclear Submarine



Armed Vehicle

## Phase 2

# Maintenance and Upgradation & Modernzation



An-32



Sukhoi-30



Multi Role Medium Lift Helicopter



T-72 / T-90



Optonics

# Phase 3

## Products Manufactured in Defence Park



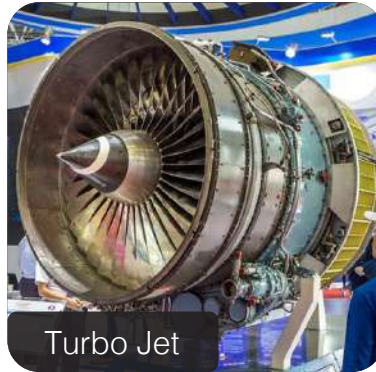
Armoured Personnel Carrier



Military Aircraft



Turbo Prop



Turbo Jet



Multi Role Medium Lift Helicopter



BPV-Level 7



Bomb Blanket



UAV



FICV



FRCV

# Titan Metals & Minerals Ltd

Titan Metals & Minerals Ltd is a private incorporation based out of India and has a representative office in Ukraine specializing in developing novel advanced materials for Aerospace and Defense.

## **Titan Metals has 4 major key sectors:**

- 1) Technology and new materials for Fusion Additive Manufacturing
- 2) Nano Structured Titanium Special Steels
- 3) Ultra High Strength Scandium Alloys
- 4) Setting up of Titanium Sponge Plant

Titan Metals in collaboration with Next Metals Inc., will be offering these technologies for both domestic and global markets. Titan Metals specializes in Aluminum Scandium Alloys, as our overseas team has vast experience and commercialized the alloy in the early 1990s.

## **The business is currently viewed as 2 operating Units:**

1) Nanostructured Titanium, Special Steels and ceramics group, which all have unique nanomaterials in their composition that significantly improve performance properties. Fusion Additive Manufacturing will further improve the performance and economics of component manufacture for customers for higher temperature applications such as turbine blades, supersonic aircraft and armor.

This unit includes NEXT3D Materials for internal production until it begins to market the new materials directly to manufacturing companies. These materials have been tested which confirmed the superior properties for armor systems and other applications.

2) Aluminum Scandium alloys and composites using fusion Additive Manufacturing to achieve superior performance properties for next generation intake turbine blade, aircraft structures, due to its higher strength and therefore lighter weight to improve energy efficiency.

We can produce highest strength Aluminum Scandium Alloys using the most advanced Severe Deformation (SPD) technology to achieve amazing strength with high elongation aluminum scandium materials using Fusion manufacturing from our unique rods used in the New Fusion AM system. We also produce novel aluminum alloys in spherical micro powders and wire for 3D printing.

Ultra-high strength/high elongation Aluminum Scandium for the largest turbine blades at the intake of jet engines, to full fill prototype agreements to be tested with agreed upon order as certified.

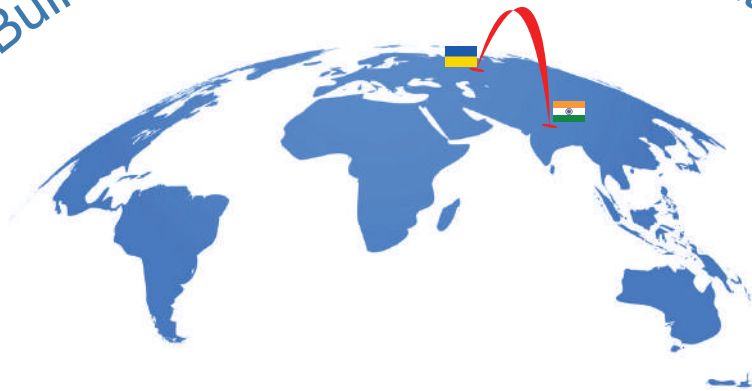
These units will be operated together in order to limit initial development costs, there is a significant synergy in each of these advanced materials development, IP strategy, production and marketing.

Lastly Titan will be set up a physical & mineral separation to produce minerals like Ilmenite, Kainite, Monzonite, Garnet and Zircon partnering with MAST a company based out of Russia. In addition to this Titanium Sponge Plant will be established to cater to Indian Aerospace & Defense.





Building Relation for Building Nation



TITAN DEFENCE SYSTEMS LIMITED

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