



**TITAN GEO SPACE SYSTEMS LIMITED**



**SPACE COMPLEX  
UNDER  
MAKE IN INDIA**

# ABOUT US

**Titan Geo Space Systems Ltd (TGSSL)** was incorporated in the year 2021 with an objective to support ISRO and space stations world wide.

TGSSL is headed by K. Giri Kumar as Chairman and CEO and assisted by C. Dinesh Kumar, M. Sridhar Rao, D. Srinivas and K. Vijay Srikanth as Board of Directors for day-to-day operations.

The overseas team is headedby Mr. Alexander Chechel along with Mr. Alexander Los, Mr. Sergey Voith and Mr. Volodymyr Usov who are the key people as knowledge partners.

TGSSL in collaboration with Ukrainian Space Agency, Yuzumash Space Plant and Kurs Orbital will establish facilities to manufacture and service Satellite Launch Vehicles and Satellite launch services.

Upstream & Downstream are two key components in Space domain as supply chain.

Design, development and manufacturing of satellites, launch vehicles and launch services are part of the Upstream industry. In addition to this we can provide service like Satellite Relocation, De-Orbiting, Space Debris Removal and Remote and Close Inspection.

Service facilities include: Ground Control Complex, Spacecraft Modular Platform, Acquisition Module, Propulsion System, Communication System, Power Supply System, Thermal Control System.

TGSSL is building infrastructure that makes it possible for truly scalable industry to thrive in space. Our on-orbit servicing platform makes up the base layer supporting new business avenues in the future which will help satellite operators to clear key orbits of debris and to receive \$ 100K of additional revenues per day, by extending their satellites commercial lifetime and performance.

Manufacturing cost of SLV is close to USD 20 Million, and the satellite once launched is expected to be in the orbit with life span of 15 years without any service support as the components manufactured are tested at multiple levels to ensure delivery of the pay load and the endurance to the orbit. The final assembly of the launch vehicle is carried out at the launch platform.

The key applications of the satellites are communication, navigation and earth observation. Space will define the future of the national security, defence forces around the world are already developing specific entities focused on the space domain.

## OUR TEAM



**K.Giri Kumar**  
Chairman & CEO



**Alexander Chechel**



**Alexander Los**



**Sergy Voith**



**Volodymyr Usov**



**C.Dinesh Kumar**



**S. Rajendra Kumar**



**K.Vijay Srikanth**



**D.Srinivas**



**K.Santosh**

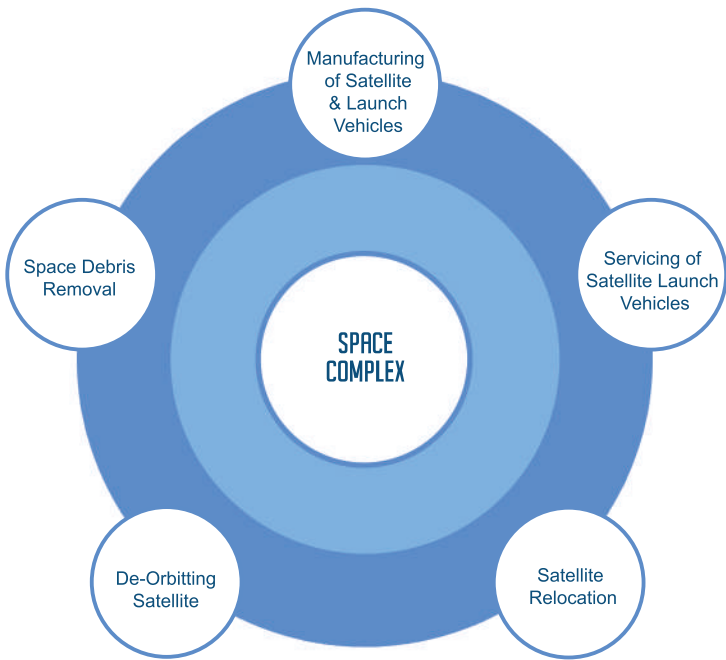


**M.Sridhar Rao**



**K. Shyam**

# SPACE COMPLEX



## OUR COLLABORATORS





# PRODUCT LINE IN MANUFACTURING VERTICAL

## Ti-6Al-4V Air Pressure Bottles



RD805



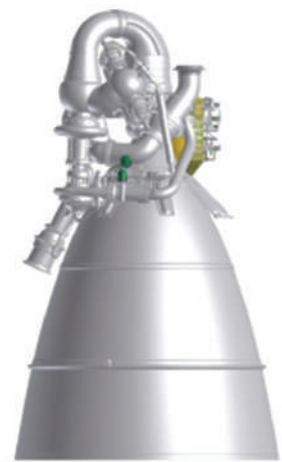
RD809M



RD809K



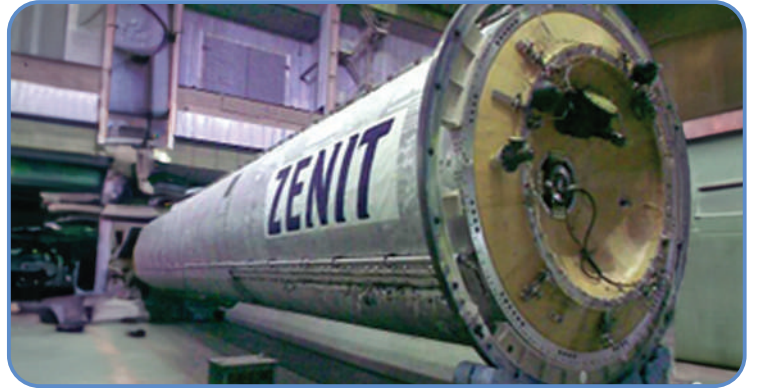
RD835



RD801V



## Assembly Line for Launch Vehicle



## Launch Pad & Launch Services





## Satellite Launch Vehicles



# KEY COMPONENTS OF THE VALUE CHAIN IN SPACE INDUSTRY

## Upstream Industry



### Research & Development

Design and Development of Enabling Technologies, Launch Vehicles, Satellites, etc.



### Manufacturing of Launch Vehicles & Satellites

Manufacturing of Launch Vehicles and satellites based on proven designs



### Launch Services

Undertaking Launch Campaigns to put satellites and test-probes into orbit

## Downstream Industry



### Satellite Operations

Ensuring orbiting satellites operate as per requirements/specifications



### Satellite Service Provider

Using Satellite capacity to provide satellite based services, across various industries and user segments



### End User Industry

Providing value added services to end-users based on satellite data and capabilities

## Overview of Space Sector

### Value Chain of the space sector

Revenue is derived in the space sector by providing various space-based services to end users which include defence, media & entertainment, communication, aviation, retail & enterprise, and other industries.

To enable the provisioning of such services it is imperative to procure satellite services from satellite operators who launch and maintain satellites in their respective orbits. These constitute the downstream part of the space sector value chain.

The upstream part of the value chain consists of research & development, followed by manufacture of launch vehicles and satellites, culminating in the use of launch of the launch vehicle to put satellites in space.



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