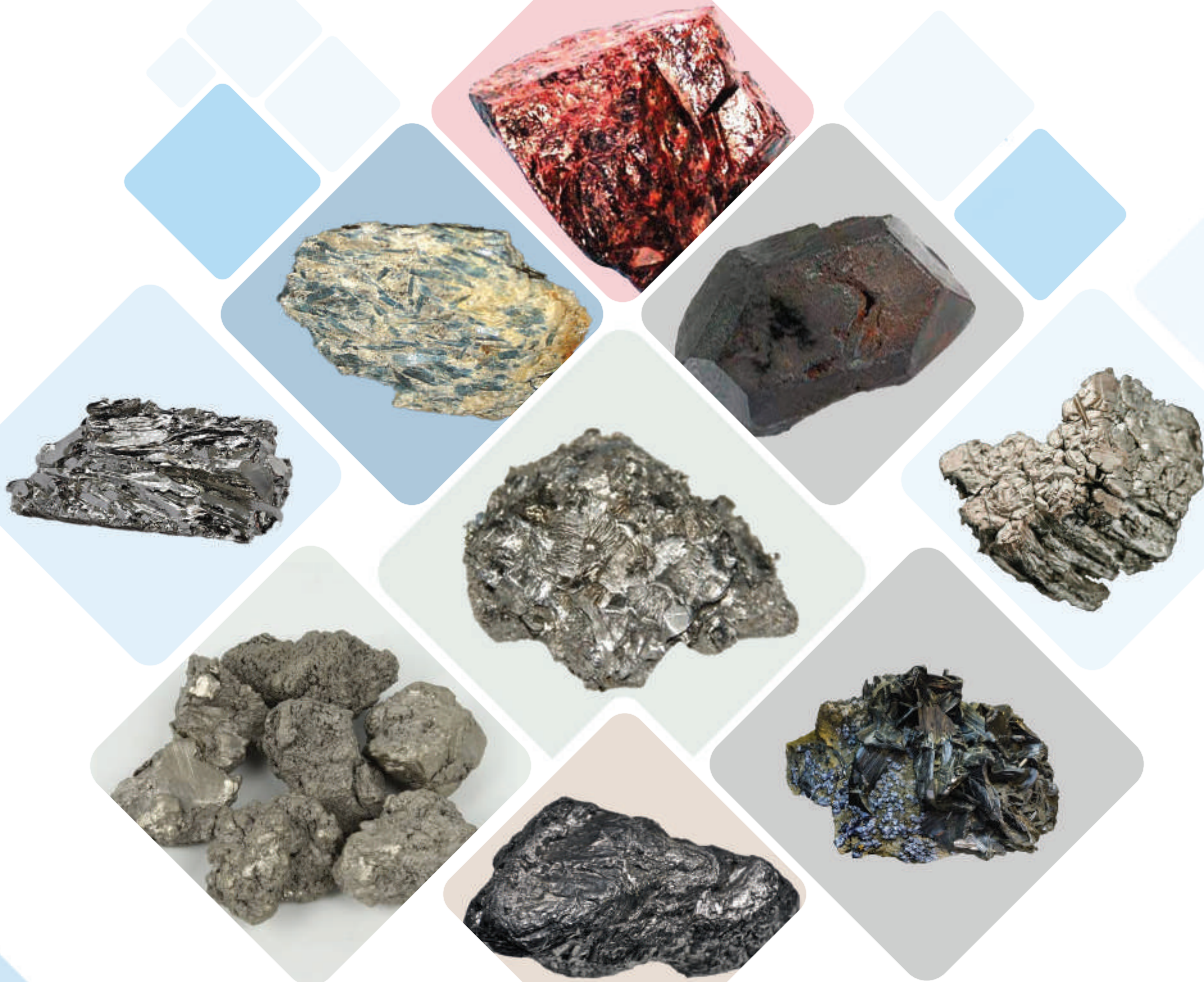




## TITAN METALS & MINERALS LIMITED



**TITANIUM INDUSTRY  
UNDER  
MAKE IN INDIA**

# ABOUT US

Titan Metals & Minerals Ltd (TMML) is a private incorporation based out of India and has a representative office in Ukraine specializing in developing novel advanced materials for Aerospace, Defence and Space.

We started as a trading company specializing in the import of Advanced, Ballistic, Composites and Strategic Materials for defense and space sectors as an approved vendor under Titan Metals & Minerals Ltd (TMML). Our latest offerings include materials like Titanium, Scandium, Niobium, Vanadium, Hafnium etc. besides Molybdenum, Tungsten, Cobalt and Nickel.

TMML is also involved in importing Law enforcement products such as Body Armor jackets, Bomb Blankets and Car Armor Steel. TMML also has an immense amount of potential to trade in technologies in the field of Body Armor and Car Armor. We also have the privilege of selling Body Armor jackets to the Ministry of Home and Defense in India.

TMML was involved in the import of Bitumen, Beverages like Beer & Vodka, Bromine, Coal, Coke, Fertilizers, Titanium Di-Oxide and Soda Ash. TMML has been working with Indian Rare Earths Ltd (IREL) for the export of Indian Ilmenite to Ukraine. Titan Group's major revenues were mainly from trading of Titanium Sponge, Titanium Pigment, Cobalt, Nickel, Beer, Body Armor Jackets, Aircraft Tires, export of Ilmenite and sale of technologies.

TMML has been exporting Ilmenite since 1999 directly to pigment production plants in Ukraine and importing Rutile based Titanium Di-oxide.

Considering the potential of Beach Sand Mining, TMML is currently perusing to set up a Titanium Excavation Plant either in the coastal belts of Andhra Pradesh or in Tamil Nadu.

The plant has 3 stages of implementation: Mining Plant, Mineral Separation Plant and Value Addition Plant. TMML has developed a business plan and mining plan by engaging Outotec Inc and MAST Ltd companies based out of the United States and Russia.

TMML proposes to establish a Ten-Thousand tons capacity of Titanium Sponge and Fifty-Thousand-ton capacity of Titanium Pigment plant. Later scale-up the production basing on the availability of Ilmenite reserves and clients' requirements.

Lastly TMML will continue to source and trade in Master Alloys, Super Alloys, Ferro Alloys and Mineral based Fertilisers.

# OUR TEAM



**K.Giri Kumar**  
Chairman & CEO



**Alexander Chechel**



**Benton Wilcoxon**



**Sergey Mahaov**



**Sergey Chak**



**C.Dinesh Kumar**



**S.Rajendra Kumar**



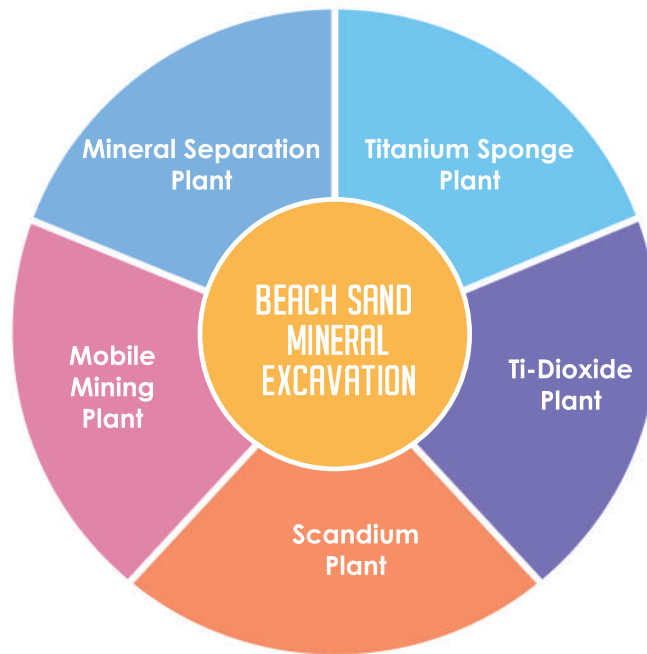
**K.Vijay Srikanth**



**M.Sridhar Rao**



# TITANIUM & SCANDIUM ORE TO SPONGE PRODUCTION FACILITY

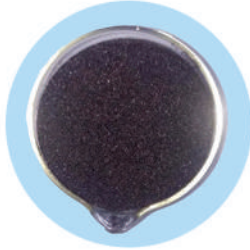


## PARTNERS

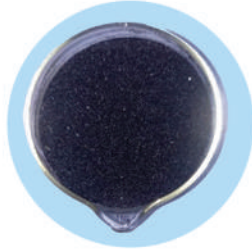
MAST Europe	MAST Russia
Next Metals Inc	Ulti Metals Inc
Outotec Inc	RD Titan Group
FIKO	VSMPO
METSO Inc	AIK EKO
Sumy Titan	Crimean Titan
Institute for Problems of Material Sciences	Odessa Port Fertiliser Plant
Humanicium	Fertile Vide

# POST MINING MINERALS

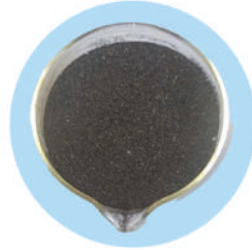
HIGH GRADE ILMENITE



ILMENITE



RUTILE



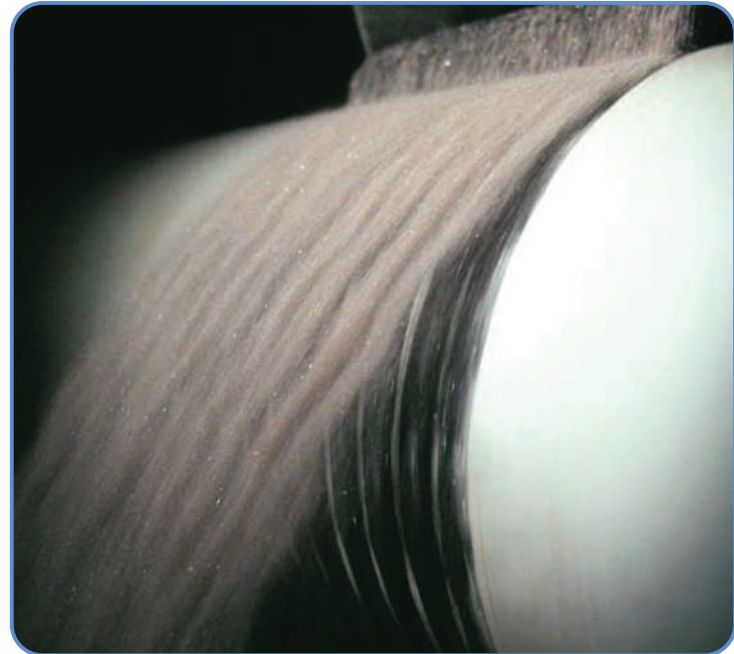
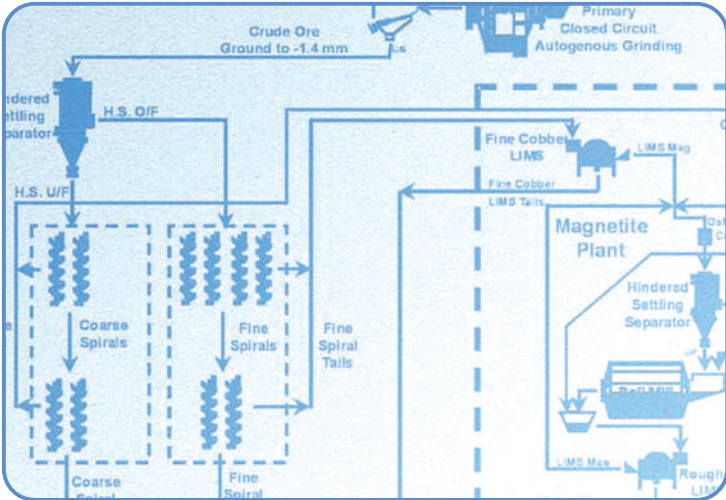
ZIRCON



FINAL PRODUCT



# Mineral Separation Plant



# PRODUCTS & FACILITIES FOR TITANIUM INDUSTRY

- **ADVANCED Materials**
- **BALLASTIC Materials**
- **COMPOSITE Materials**
- **STRATERGIC Materials**

- **Additive Manufacturing**
- **3-D Printing Technologies**
- **Electron Beam Welding**
- **Laser Beam Welding**

- **Beach Sand Excavation**
- **Mineral Separation Plant**
- **Titanium Spong Plant**
- **Titanium Di-Oxide Plant**
- **Scandium Plant**

- **Export of Post Mining**
- **Minerals**
- **Ilmenite**
- **Rutile**
- **Garnet**
- **Zircon**

- **Alloys**
- **Super Alloys**
- **Master Alloys**
- **Ferro Alloys**

- **Fertiliser**
- **Urea**
- **Di Ammonia Phosphate**

# PRODUCTS

PRODUCT	DESCRIPTION
AIRCRAFT TIRES	AIRCRAFT TIRES
ALLOYS, SUPER ALLOYS,	TITANIUM, SCANDIUM, HAFNIUM, TI AL ALLOYS
BEVERAGES	BEER, WINE & VODKA
BULLET PROOF JACKET	LEVEL 7A
CARBON	FIBER & FABRIC
COAL & COKE	MET & PET COKE
CHEMICALS	SODA ASH & BROMINE
CNG CYLINDERS	FOR ANY TYPE OF AUTOMOBILE
FERTILIZERS	UREA, DAP, NPK
MICRO- FERTILIZER	HUMIC, FULVIC, AMINO PLUS, FLORA, VEGA
MINERALS	ILMENITE, ZIRCON, GARNET, RUTILE
PIGMENTS	TITANIUM DI OXIDE (RUTILE & ANATASE)
TUFF FABRICS	KEVLAR & TWARON



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