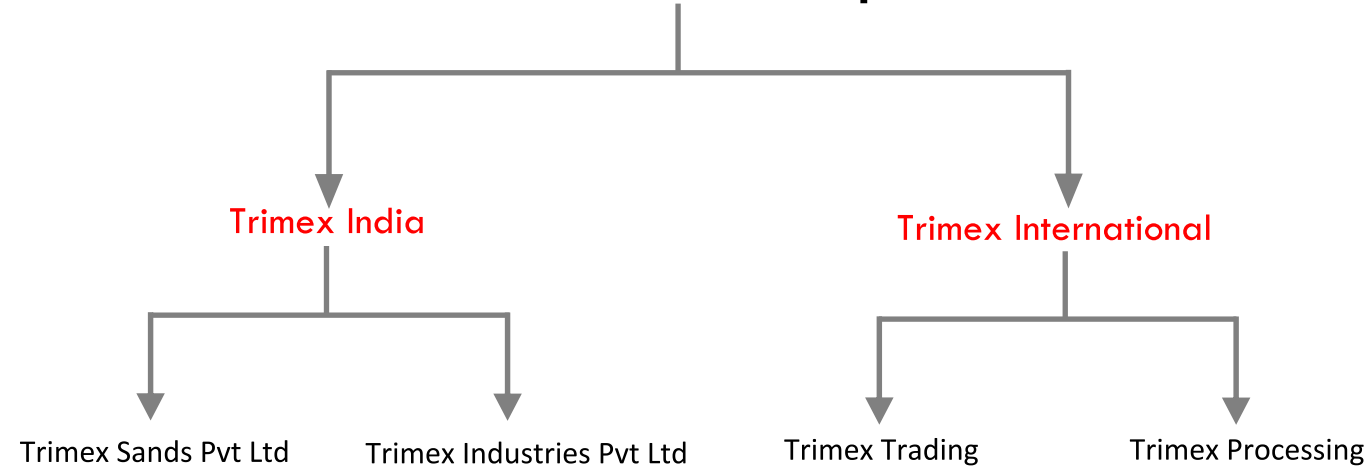




## Trimex Group



# Trimex Sands

World-class, integrated, multi-mineral complex



### Trimex Sands Pvt Ltd

Trimex Tower, #1 Subbaraya Avenue, CP Ramaswamy Road, Chennai 600018, INDIA

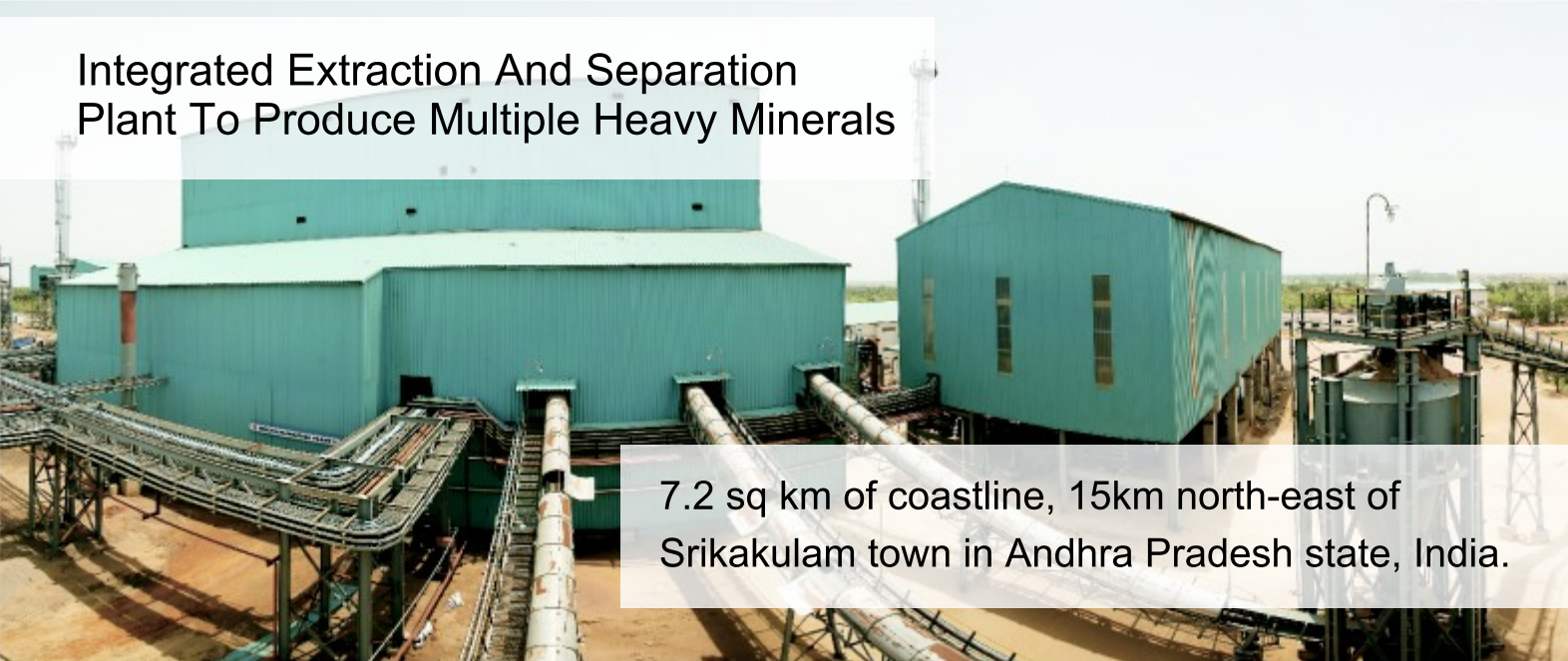
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## The Project

### Integrated Extraction And Separation Plant To Produce Multiple Heavy Minerals



7.2 sq km of coastline, 15km north-east of Srikakulam town in Andhra Pradesh state, India.

Ilmenite 3,00,000 TPA

Ilmenite and rutile are ores of titanium-a metal that's strong (as strong as steel and twice as strong as aluminum), light weight, non-corrosive, able to withstand temperature extremes (especially its high melting point, 1800K). Titanium alloys find many applications in high tech airplanes, missiles, space vehicles, and even surgical implants.

Rutile 9,100 TPA

Zircon 5,300 TPA

Zircon flour plays a major role in the production of ceramics: zirconium oxide is a common refractory material. Zircon sand is commercially extracted for the metal zirconium that is used as an abrasive and insulation.

Garnet 77,000 TPA

Garnet sand is a good abrasive, and a common replacement for silica sand in sand blasting. Mixed with very high pressure water, garnet is used to cut steel and other materials in water jets. Garnet sand is also used for water filtration media.

Sillimanite 70,000 TPA

Sillimanite is considered the best raw material for the manufacture of high alumina refractories. Sillimanite powder mixed with high-grade china-clay is used in the manufacture of high voltage spark plugs and insulating materials.

Titanium dioxide is a white pigment that finds use in paints as lead paint gets phased out on health grounds. Nearly 95% of worldwide use for titanium is for the production of this white pigment. The pigment provides color for rubber, plastics, textiles, ink, cosmetics, leather, ceramics, and paper. Titanium and titanium compounds are used in desalination plants, electrical components, glass products, artificial gemstones, jewelry, aircraft parts, artificial human joints, and smoke screens, among others.



## Corporate Social Responsibility

The Trimex Group is committed to a socially responsible approach across each of its sectors. Around the world, Trimex Group and its companies are working to make a positive difference locally, engaging with residents to achieve win-win outcomes that create sustainable, mutual benefits.

That approach is being implemented by Trimex Sands Private Limited (TSPL), which is raising living standards in the 10 villages surrounding its operations in Andhra Pradesh, India.

TSPL has established a medical clinic and set up two camps to screen villages for pre-existing medical conditions so that they can receive further medical care. Nearly 20000 patients have been diagnosed so far and given free medicines with free medical lab technical facilities with a coverage of 30 Villages. Conducted a free Eye Camp in association with Shankar Foundation, Visakhapatnam. Nearly 200 patients were tested and 30 Cataract Surgeries were conducted.

To protect the environment and Ancient Srikurmam Temple, TSPL has moved forward to construct a compound wall and a Parikrama Mandapam.



The Arasavalli Sun Temple is located in Srikakulam District, Andhra Pradesh and the temple Administration is facilitating "Vuchita Annadanam" to the Pilgrims. In view of promoting the Annadanam Scheme, TSPL has constructed 2 Annadana Mandapams at Arasavilli Sun Temple Premises.

To encourage the Rural Youth in the Villages, TSPL has provided sports kits for Cricket and Volley Ball. Conducted Cricket Tournaments among the Rural Youth from different Villages to create a healthy platform among the Villagers.

In association with a leading nationalized bank, TSPL started Training the rural women in tailoring and drawing plans to create market in surrounding villages so that they encash their acquired skills.

Trimex Group takes a holistic, integrated approach to business that focuses on the long term picture, comprehensive development, social justice and sustainability. The Group's goals are all aligned with larger societal goals, such as infrastructure development, creating job opportunities and attracting further investment.





## Leadership



**Pradeep Koneru**  
Managing Director

Pradeep Koneru oversees the India operations of the Trimex Group as Managing Director of Trimex Sands Pvt Ltd. He has led the development of Trimex group's iron ore, barite and bauxite business in South Asia, and established the heavy mineral sands division. Through Pradeep's strategy of growth through diversification and forward-and-backward integration, Trimex's India business has consistently grown in scale and profitability. In recognition of his outstanding leadership and initiative in developing an innovative new business model in sands mineral mining, Pradeep was awarded the 2011 Most Promising Entrepreneurship Award from Enterprise Asia.

He is the Director and driving force behind the Trimex growth coming with rich experience of Seventeen Years Service in the capacity of Head of the Department/Chief Executive in Govt. and Public Sector Corporations (1984 – 2001). Instrumental in creating “MINERAL RESOURCES AUDIT AND TECHNOLOGY UPGRADE FUND” for resource audit and overall development of mineral industry as Director of Mines and Geology, A.P.. As VC & MD, formulated a Corporate Policy to M/s. APMDCL to play its development role to promote mining industry in the State instead of engaging itself directly in mining. He is a Member in FIE, MEAI, SME and President MEAI (Mining Engineers Association of India) for two terms – 1997-99 and 1999-01. He has also conducted various National and International Seminars/Workshops.



**T.V. Chowdary**  
Director

She has vast experience in business administration and has been a director of Trimex Group over two decades. She is an able administrator and takes care of complete administration, finance and investment activities of the group. Besides known as astute business person, she is totally taking care of the Corporate Social Responsibility (CSR activities) of the group and she is instrumental for the development of many villages in and around Srikakulam District which has evidenced many good social developments.



**Vimaladevi Koneru**  
Director



## What sets us apart

Among South Asia's largest plants for separating heavy minerals from beach sands.

Custom-built, modern facility for separating multiple minerals-ilmenite, rutile, zircon, garnet, and sillimanite.

World's largest capacity for producing sillimanite.

Environmentally sustainable: after extracting heavy minerals from it, sand is returned to refill the mined-out areas. Those areas are put under green cover.

Dedicated 33 kV power line installed at Chilakapalem sub-station, 40 km from the plant.

100% power backup.

Dedicated 9 km-long pipeline brings makeup water from the river Vamsadhara.





## The Road Ahead

To become Asia's largest industrial minerals business through a fully integrated value chain.

### Premium products

- Titanium metal (10,000 TPA)
- Zircon value adds such as Zircoflour (5,000 TPA)
- Production of  $TiO_2$ slag or SR: 180,000 TPA
- Production of chloride pigment: 60,000 TPA

### Value-added products

- Sillimanite flour
- Sintered sillimanite grains
- Sintered mullite grains
- Pigment through sulphate route: 30,000-60,000 tonnes

### Base products

- |               |              |               |              |
|---------------|--------------|---------------|--------------|
| • Ilmenite    | 3,00,000 TPA | • Ilmenite    | 3,40,000 TPA |
| • Rutile      | 9,100 TPA    | • Rutile      | 8,500 TPA    |
| • Zircon      | 5,300 TPA    | • Zircon      | 8,500 TPA    |
| • Garnet      | 77,000 TPA   | • Sillimanite | 50,000 TPA   |
| • Sillimanite | 70,000 TPA   | • Garnet      | 50,000 TPA   |

Current  Short-to-medium  Medium-to-long 



## About Trimex

India's top specialty value chain provider for industrial minerals, the Trimex Group is a minerals business house with interests in extraction, sourcing, procurement, delivery, and R&D. Trimex delivers products such as Barite, Bentonite, Iron Ore, Feldspar, Bauxite, Ball Clay and Kaolin, among others, to the world's leading Oil Drilling, Ceramic, Glass, Construction, Energy, Steel, and Fertilizer companies.

Founded in 1985, Trimex's global delivery network includes offices in India, Indonesia, Singapore, and the United Arab Emirates. Production operations are conducted from multiple locations in the CIS, Africa, and West Asia.

The Group manages the minerals business through two strategic business units. Trimex International, based in Dubai, oversees the international business. Trimex Industries represents the Indian operations of the Group.

