



# Ingwenya Mineral Tech Pvt. Ltd.

Mineral Upgradation Specialists



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## ABOUT US

**Ingwenya Mineral Tech** is established in 2008 with main objectives of catering to Chemical, Mineral and Coal processing industries and specialising in process engineering, detailed engineering and supply of Liquid solid separation and gravity separation equipment with technologies proven worldwide and manufactured in India.

Many industries and particularly small and medium Mineral processing industries are stuck with lack of process supports and low cost solutions for setting up beneficiation plants which can be set up with low investment costs and short gestation periods. **IMT** is set up to meet this demand in the market.

**IMT** is headed by **Mr. Gopalakrishna** who has more than 40 years of experience in various industries applications and his team has combined experience of more than 150 years exposure to Mineral and chemical industries projects and thus is in a position to provide the required expertise to make the small and medium industries to set up the plants with most economical costs and quick gestation periods. For example, A typical gravity separation **BABY JIG** plant developed by **IMT** can be set within 4 months period with investments not exceeding INR 45 Millions for processing a 50 tph Iron ore beneficiation plant.





## OUR PRODUCTS

### **IMT Jigs**

Under pulsated and PLC controlled **IMT** jigs are offered for various gravity separation plants such Iron ore, Coal, Manganese, Barites, diamonds, Metal-slag separation plants and application of jigs are in many more industries where precise separation of heavy and



**IMT is the first company in India** to offer a modular Baby Jig plant with complete system from receiving hopper to the discharge conveyors mounted on fabricated structures. A typical Baby jig plant can be supplied, erected and commissioned within a period **3-4 months** depending upon the customers ability to complete the civil foundation works.

**IMT – Combo jig\*** is a new development introduced by **IMT** to process two different particle sizes of material in a single jig and successfully installed and commissioned for processing 5-18 mm and 1-5 mm Iron ore simultaneously in a single jig in India.

**\*Patent application under process.**





## **IMT Vibratory screens and IMT Vibratory feeders**



Size separation and correct feeding systems are integral and important part of mineral processing and **IMT** specialises in offering Vibratory screens , Hi Frequency Screens, Vibratory feeders and Grizzly feeders to meet this requirement. Single and Double deck screens and feeders as wide as 2500 mm are installed and commissioned successfully.

## **IMT thickeners**



High rate thickeners are one of the important equipment for efficient recovery and recycling of water in Mineral processing plants and **IMT** has specialised in offering IMT thickeners with sizes starting from 3 m to 60 m. Designs are available for manufacturing up to 100 m diameter. Thickeners with Steel construction tanks are available with each and every design going through Finite element analysis to ensure that the designs are robust and economical.





## IMT Mixing solutions



**IMT** offers mixers and agitators for homogenous mixing, leaching and heat transfer applications and have successfully installed agitators for tanks diameter as big as 10 m and height 12 m for Mineral applications. In house tank and agitator support structure designs available and offer these as compliment to the clients to enable the site construction to save costs.

## IMT Pressure filters



Tailings disposal is always an issue in mineral processing industries and **IMT** is providing solution to this by developing indigenously designed and manufactured fully automatic pressure filters to the customers. The PLC controlled operations of the pressure filters provide the option of using the same for concentrate filtration also, if need be.





## IMT –AFDS



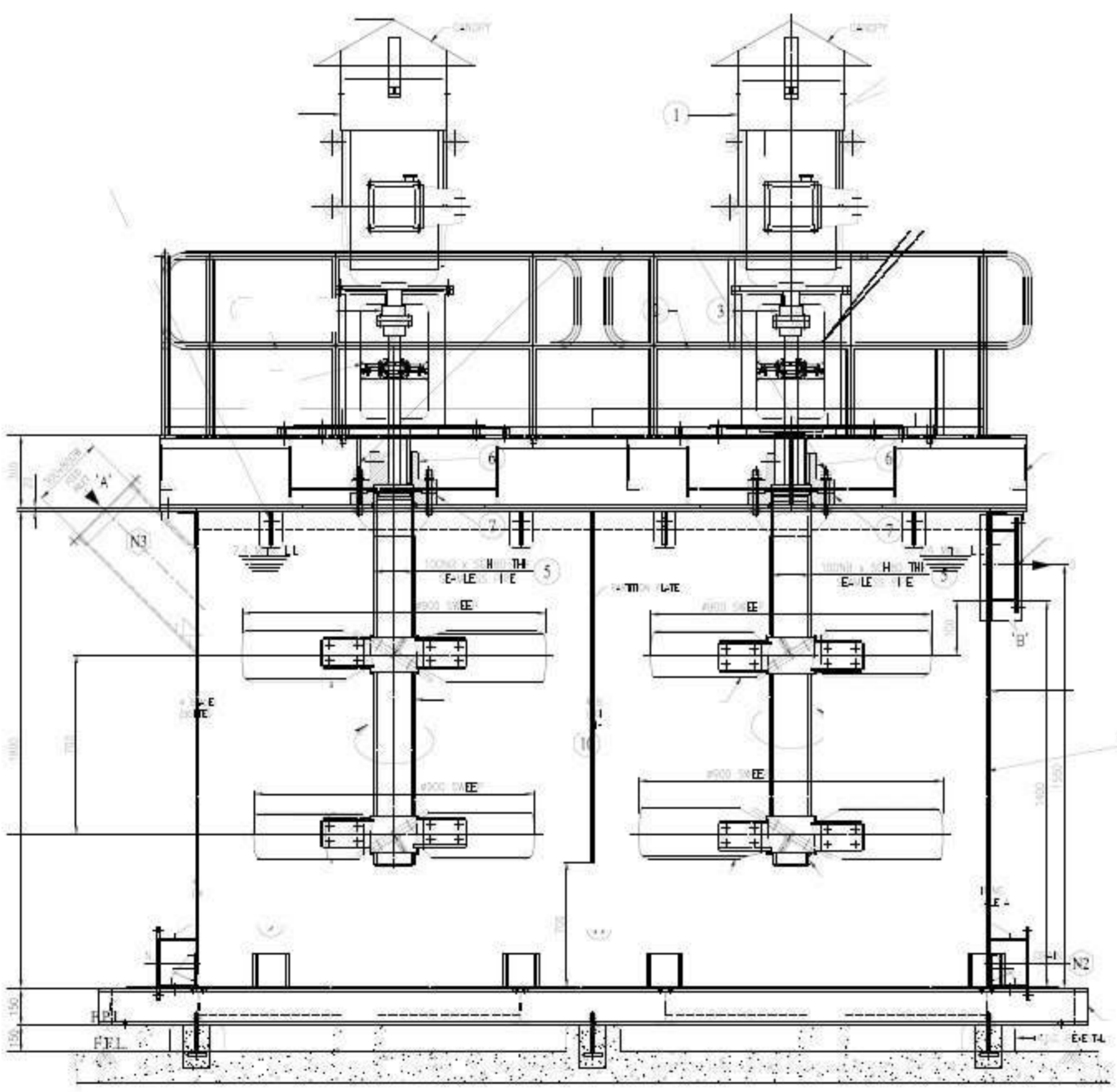
**IMT** offers Fully Automatic Flocculent and Reagent Dosing Systems as stand alone product as well as part of the High rate thickeners and Flotation cells. Sizes offered vary from 1.0 kg/hr to 50 kg/hr dosing of the Flocculants/ reagents.

## IMT Drum scrubbers



**IMT** offers drum scrubbers to complement its other products and has successfully installed and commissioned drum scrubbers for iron ore applications up to 250 tph capacity.

## IMT Attrition scrubbers



**IMT** offers attrition scrubbers for scrubbing mineral fines and clay washing applications and has successfully installed and commissioned attrition scrubber for minus 2 mm size particle scrubbing in Iron ore beneficiation plant.





## STRATEGIC PARTNERSHIP PRODUCTS OFFERED

### Malvern Engineering works (pty) Ltd, South Africa

#### Malvern - IMT Low intensity magnetic separators



Low intensity and Medium intensity magnetic separators are offered by IMT with the technology support from Malvern engineering company, South Africa on case to case basis. The range offered for Low Intensity Magnetic Separator is up to 2500 gauss and for Medium intensity Magnetic separators it is up to 6000 Gauss. The drum diameters starting from 305 mm to 1220 mm and the length of the drums up to 3050 mm.

The designs offered include Multipol and Interpol magnetic arrangement systems and carefully selected to suit the customers' process requirement.

### WesTech process equipment India Pvt Ltd

#### Products offered with WesTech Process Equipment India Pvt Ltd.:

**IMT** has an exclusive agreement with WesTech, India for process and technical support during marketing, manufacturing, installation & commissioning of some of their products like Horizontal Vacuum Belt Filters, Indexing filters and Linear Trash Screens.





## Horizontal Belt Filters



Horizontal belt filters are extensively used for filtration of Concentrates and Tailings in Iron ore, Coal, Phosphoric acid filtration, Di Calcium Phosphate filtration and many other mineral and chemical applications.

## Indexing Filter

Indexing filters are a low cost solutions for small size chemical application filtration and has unique design features which allows the construction of the filters in completely acid resistant & plastic modules.

## Linear Trash Screen



Linear Trash Screens are extensively used in the mineral processing industries as a protective equipment prior to Thickeners and High Intensity Magnetic Separators in the Gold leaching plants, Iron Ore processing plants etc.










## Maxflot Ltd, Mauritius

### IMT - Duel Extraction Column Flotation Cell



Maxflot Ltd has acquired Beneficiation technologies Ltd, USA which has patented designs for Duel extraction column flotation cell for froth flotation applications. DEC has unique features such as stub column flotations mounted one top of the other and thus scavenging/ cleaning application is carried out in a single unit. Successful installations are in Coal flotation, Silica flotation and Iron ore reverse flotation applications in the world.

## SERVICES

-  Basic and detailed engineering services for Coal and mineral processing industries.
-  Complete engineering, supplies, erection and commissioning services except civil construction works at site.
-  Process and plant auditing to improve the performances of the plants.

For any requirement, process support, design engineering etc, please contact [info@westech.co.in](mailto:info@westech.co.in) and [imt@inmintec.com](mailto:imt@inmintec.com)





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### Corporate Office

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### Works

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