Modtech Material Handling Projects Pvt. Ltd.
Bhankri Nawada Road
Near Government Sr. Sec. School
Bhankri, Faridabad Haryana 121001

MODtech

An ISO 9001:2015 Certified Company

COMPANY BRIEF / PRODUCT BROCHURE

www.modtechprojects.com

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About Us

Founded by Industry Experts with more than 35 years of Experience, ModTech has established itself as a customer centric organization which caters to Bulk Material Handling needs of companies in Cement, Steel, Power, Mining, Port, Engineering, Metal Refining and other industries.

Over the years, ModTech has gathered expertise in Design, Engineering , Manufacturing and Erection/Commissioning of Belt Conveyors, Pipe Conveyors, Steep Angle Conveyors, Belt Feeders, Screw Conveyors, Trippers, V-Plough Diverters, Roller Conveyors, Movable Maintenance Trolleys, Movable Hoppers, Diverter Gates, Flap Gates, Rack & Pinion Gates, Sector Gates etc.

ModTech offers world class Design, Engineering and Manufacturing at unbeatable price. The company has 2 manufacturing Facilities at Faridabad, Haryana and Alwar, Rajasthan. Modtech has distinction of completing more than 300 projects successfully.

Along-with the Projects Market, Modtech has keen focus on the Spares Market as well. ModTech supplies Spare Parts (Idlers, Pulleys and Misc. Bulk Material Handling Equipment) to more than 100 renowned companies in Cement, Steel, Power, Engineering, Mining and other industries. Our large number of repeat customers show our commitment to exceeding customer expectations. Our quality system ensures that the equipment is designed and manufactured to the rigid specifications and exceeds performance expectations.

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History & Credentials (1/2)

- The founders of the company were responsible for bringing latest technologies in the field of Material Handling in India.
  - High/Steep Angle Conveyors (Flexowell type)
  - Pipe Conveyors
- The founders have got the credentials of Design, Manufacture, Supply and Erection of
  - Country's Highest High Angle Conveyor erstwhile(400 TPH, 103 Meters Lift, Angle of Lift 55°, for handling DRI at M/s Vikram Ispat, Alibag)
  - Country's first S-Shaped Pipe Conveyor (400 TPH, for conveying HBI for M/s Vikram Ispat, Alibagh)
  - World's largest capacity Pipe Conveyor erstwhile(3.3 Km long, 1750 TPH capacity, for handling Copper Concentrate, Coal and Rock Phosphate from Jetty to Plant Side of M/s Birla Copper, Dahej)
- Company has developed indigenous Cathode Stripping Machines and Anode Scrap Washing Machines for Copper Refining Industry. These machines are operational at Birla Copper and Sterlite Industries. This export-substitution has led to a lot of savings for our customers
- Company has supplied Conveyors / Equipments to overseas customers e.g. Nifty Mines, Australia; Rubamin Ltd., Congo; Somica, Congo; Armbruster Muller, Belgium etc.
- Company has designed 1750m long dual carry conveyor having 3000 TPH iron ore on carrying side and 500 tph fines on return belt From jetty to plant for Essar Steel in 2004
- Company has carried out Design and Engineering of 2 nos. of 1750 TPH capacity pipe conveyors (4 Kms each) from Krishnapatnam Port to APGENCO Thermal Power Station. Modtech has also supplied Pulleys, Idlers and Maintenance Trolleys for the project.

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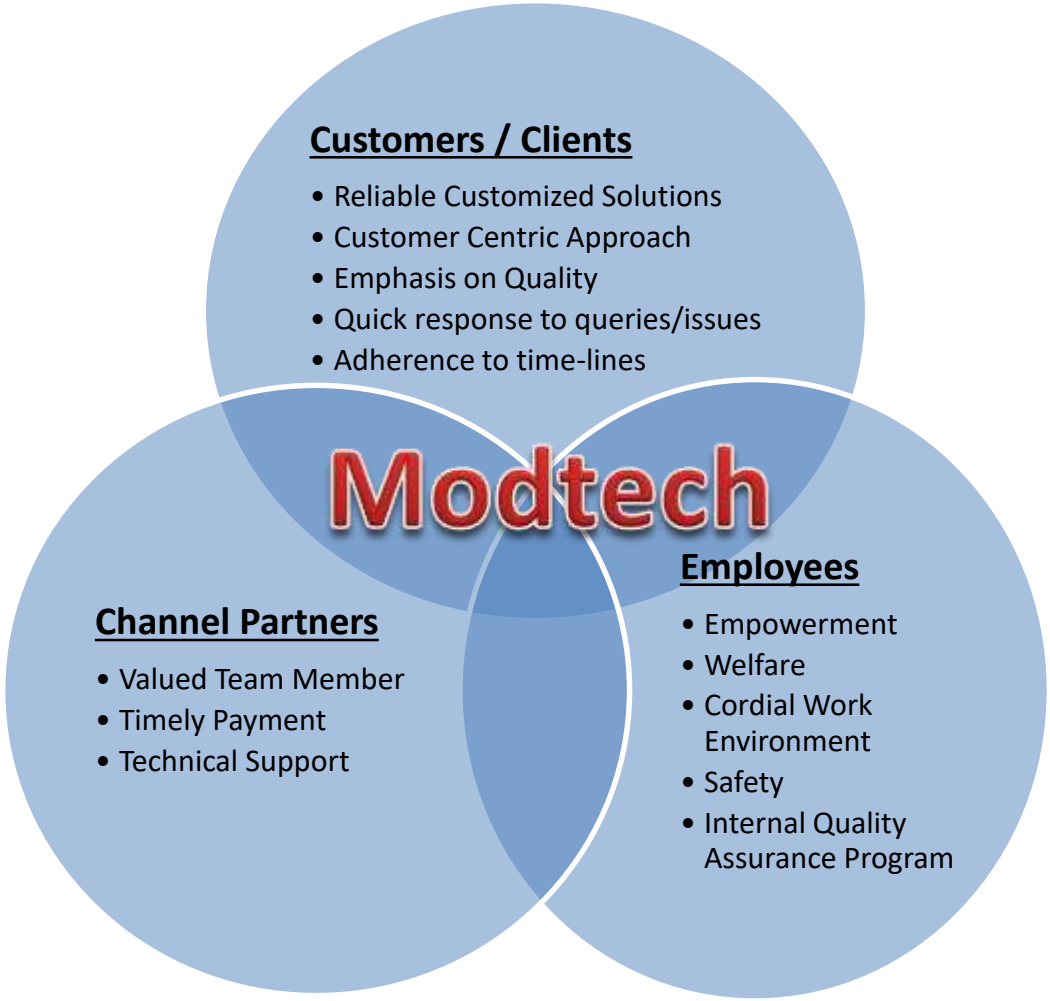
Modtech Core Values

- **Responsibility towards Customers / Clients**
  - Reliable Customized Solutions
  - Customer Centric Approach
  - Emphasis on Quality
  - Quick response to queries/issues
  - Adherence to timelines
- **Responsibility towards Employees**
  - Empowerment
  - Welfare
  - Cordial Work Environment
  - Safety
  - Internal Quality Assurance Program
- **Responsibility towards Channel Partners**
  - Treat them as Valued Team Member
  - Timely Payment
  - Offer Technical Support
- **Responsibility towards Society**
  - Energy Efficiency
  - Proper Waste Disposal
  - Community Welfare



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Belt Conveyors

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Belt Conveyors

Modtech designs, manufactures, supplies, erects and commissions various Flat and Troughed Belt Conveyors for handling Bulk Materials like Coal, Cement, Iron Ore, Clinker, Lime stone, Fertilizers etc. Modtech's proficiency in Design and Engineering enables optimization of drive unit, speed and selection of grade & width of belt; hence designed system is the most economical conveying system client can get.

Modtech has Design and Manufacturing capability to take care of wide range of conveying. ModTech conveyors can handle hostile terrains and tough operating conditions. The thorough Design Process ensures reliability, performance and extended life of the Conveyor.

The Pulleys, idlers and structures are manufactured in-house. The quality standards are never compromised!

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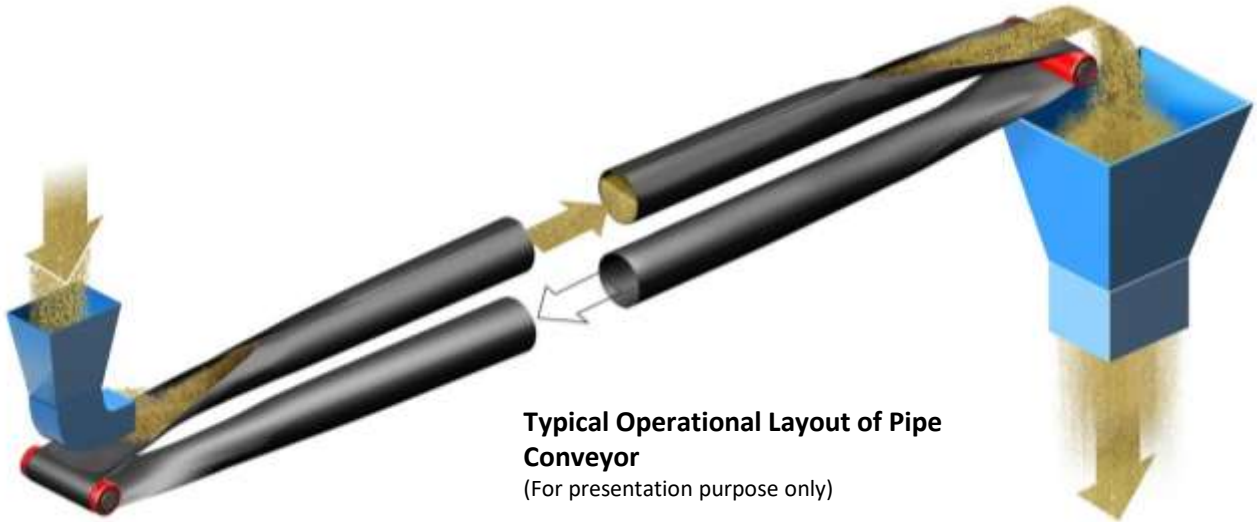
Pipe Conveyors



Typical Operational Layout of Pipe Conveyor
(For presentation purpose only)

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Pipe Conveyors

Pipe Conveyor has all the advantage of a conventional Belt Conveyor along with the advantage of accommodating complex horizontal and vertical curves. It can also have steep angles without any transfer points. The belt of Pipe Conveyor is conventionally troughed at feed-end and is rolled into a circular section (pipe) by a set of specially designed hexagonally arranged rollers. At the discharge-end, the belt of Pipe Conveyor is opened up by special idler arrangement and the material is discharged.

Modtech has expertise in designing and manufacturing Pipe Conveyor Systems. Modtech has provided Design Consultancy for some of the largest Pipe Conveyors of the country. Modtech has been a reliable Pipe Conveyor System supplier and Design Consultant to companies like Sterlite Industries, Hindalco, JSPL, McNally Bharat, APGENCO, Indwell Constructions etc.

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Steep Angle Conveyors (Flexowall Type)

The Steep Angle Conveyors are designed for horizontal, steep inclined and vertical handling of all kinds of bulk materials, from coarse-size coal and ore, rock, coarse sand or fertilizers etc.

Founders of ModTech were responsible for bringing technology of Steep Angle Conveyors to India

ModTech has capability to design and manufacture Steep Angle Sidewall Conveyors to suit various applications.

ModTech has supplied Steep/High Angle Conveyors to customers like Vikram Ispat, JSPL, Birla Corporation, Rubamin, Musco, Star Cement, SMS Group etc.

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Screw Conveyors

ModTech Screw Conveyors are designed to ensure a minimum run out, minimum coefficient of friction, ease of maintenance and minimal power consumption. The specially designed sealing system prevents dust-ingress and trouble-free operation.

ModTech has supplied Screw Conveyors to customers like Armbruster Muller, Belgium; Rubamin, Congo, Star Cement, Sterlite etc.

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Mobile Hoppers

The Mobile Hopper is a device commonly used at port and dockside locations for receiving material from grab cranes. It is a port based machine, a close substitute to Grab Unloader.

ModTech has expertise in designing and manufacturing of Mobile Hoppers for Conveyor Loading and Truck Loading applications

Modtech has designed and manufactured 18 hoppers for Adani's Hazira, Dhamra and Munda Port, and JSW's Jaigarh Port.

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V-Plough Diverters & Movable V-Ploughs

V- Plough Diverter is positioned mid-way along a conveyor belt and is used to divert material from the belt. It is usually used in conjunction with a chute. Bulk material is pushed over one or both sides of the belt by a specially designed blade. The blade can be raised or lowered as required by manual or process control. Activation method can be hydraulic, pneumatic or electric motor drive. Our design incorporates a special mechanism to ensure the material is efficiently removed from troughed belts

ModTech is the only supplier of Movable V Plough Diverters in the country. V-Plough is a decent and cost effective substitute to Tripper where space is a constraint and capacity is moderate.

ModTech has supplied V-Plough Diverters to Adani, Essar Steel, Krishnapatnam Port & APGENCO.

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Maintenance Trolleys for Overland Conveyors

Conventional Design of Long Distance (Overland) Conveyors use walkways attached to the Elevated Structure to provide maintenance access. Using a self-propelled Maintenance Trolley, that moves on the Conveyor Structure, can eliminate the need of Walkway.

Modtech has expertise in Designing and Manufacturing Customized Maintenance Trolleys to cater to various specific requirements of customers.

Modtech has supplied Two Nos. of Hydraulic Driven Maintenance Trolleys on Twin Pipe Conveyors each of 4 km long, from Krishnapatnam Port to SDSTPS for Rectangular Gallery and one No. VFD Driven Maintenance Trolley on 6 Km long conveyor with Triangular Gallery at JK Lakshmi Group (UCWL).

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Prism Diverter Gates / Flap Gates

ModTech has expertise in Designing & Manufacturing of variety of Gates to suit the Material Handling Requirements of customers:

- Flap Gates
- Rack & Pinion Gates
- Clam-Shell / Sector Gates
- Prism Diverter Gate

ModTech has supplied various Gates to Adani, Thyssen Krupp, Star Cement, APGENCO (thru' VA Tech Wabag), JSPL, Neelanchal Ispat, SMS Group, Indwell Const., JK Lakshmi Group etc.

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ModTech Pulleys

ModTech caters to the spare/replacement requirements of Pulleys of its customers with unmatched quality, timely delivery and extended life. ModTech pulleys are suitable for continuous operation and are designed as per relevant IS and other international standards.

Radiographic Testing, Ultrasonic Testing, DP Testing, Stress Relieving etc. are carried out as per Quality Assurance Plan agreed with the client

ModTech has manufactured 1250mm Dia / 2200 mm wide Pulleys with 340 mm Dia Shaft.

Presently ModTech is catering to spare/replacement requirements of more than 100 esteemed customers

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ModTech Idlers

ModTech manufactures variety of idlers to suit the requirements of customers e.g. Troughing Idlers, Flat Idlers, Self Aligning Idlers, Transition Idlers, Impact Idlers, Garland Idlers, Pipe Conveyor Idlers, Finger Rollers etc.

The rolling resistance of ModTech idlers is as low as 0.015.

Free Rotation Test, Out of Run Test, Dust/Water Ingress Test, Friction Factor Test, Weld Quality Test, Paint Thickness Test etc are carried out as per the Quality Assurance Plan.

Presently ModTech is supplying Idlers/Brackets to more than 100 esteemed customers.

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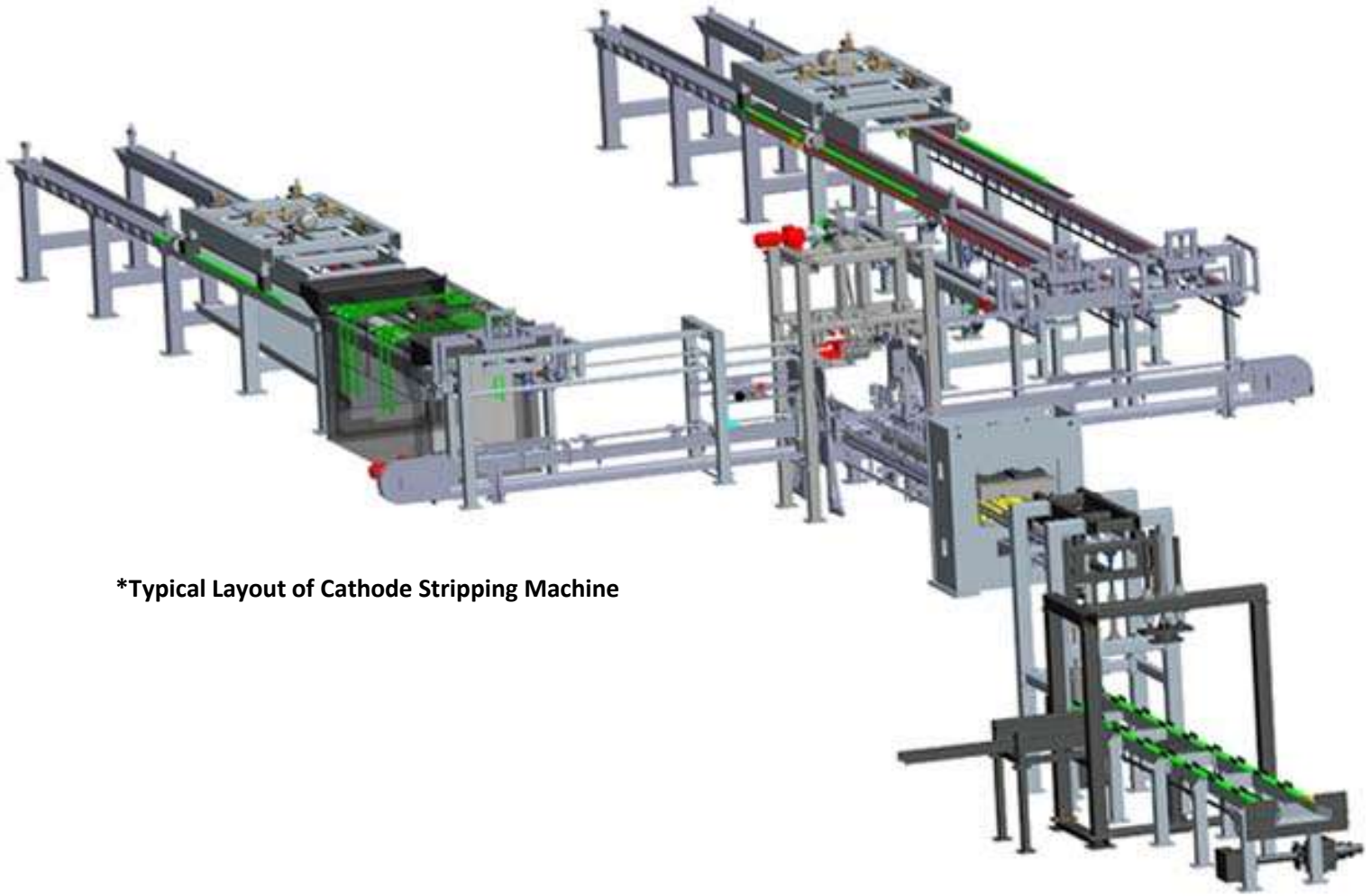
Copper/Aluminium Refining Systems



***Typical Layout of Cathode Stripping Machine**

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Copper/Aluminium Refining Systems

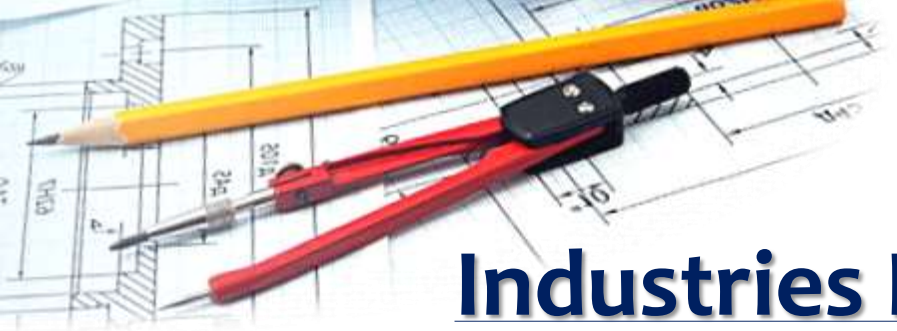
ModTech has indigenously designed the following machines to cater to the requirements of Copper/Aluminium Refining Industry:

- Cathode Stripping Machine
- Anode Scrap Washing Machine

These machines are highly complicated and comprise of power pack hydraulic motors, around 25-30 hydraulic cylinders, accumulators, 10-15 pneumatic cylinders, suction cups, photo-sensors, proximity switches, chain conveyors, chiseling unit, strapping machine, PLC system etc.

The customers have saved millions of rupees by procuring such machines from ModTech.

ModTech has supplied CSM, ASWM to customers like Hindalco, Birla Copper, Somika and Sterlite Industries etc.



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Industries Being Catered

Cement

Steel

Power

Mining

Port

Chemicals

Fertilizers

Metal Refineries

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Clients- Metal & Mining

BIRLA COPPER

JINDAL STEEL & POWER

JSW

ADITYA BIRLA HINDALCO

ESSAR

DCM SHRIRAM

RUBAMIN

MUSCO

BHUSHAN

HINDUSTAN ZINC LIMITED

ADITYA BIRLA MINERALS

NINL NEELACHAL ISPAT NIGAM LTD.

sesa sterlite a vedanta company

AEGIS

VIKRAM ISPAT

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Clients- Cement

UltraTech CEMENT The Engineer's Choice

ACC ACC LIMITED

SHREE CEMENT LIMITED

KJS KJS CEMENT HUM HAIN, TOH DUM HAI

Binani BRAJ BINANI GROUP

ADITYA BIRLA GRASIM

Birla White THE WHITEST WHITE CEMENT

BIRLA CORPORATION LIMITED MP BIRLA GROUP

STAR® CEMENT

JK LAKSHMI CEMENT Ltd.

Dalmia Cement TRUSTED BY EXPERTS

MANGALAM CEMENT

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Clients- Engineering & Construction

L&T Construction

ENEXCO BEUMERGROUP

ESCORTS

SMS SIEMAG
SMS group

mbe
Mcnally bharat Engineering co.Ltd

BEUMER
BEUMERGROUP

excelsource
International Pvt. Ltd.

GAMMON
Builders to the Nation

INDWELL

ThyssenKrupp

ELECON
GEARING THE FUTURE

LOESCHE
INNOVATIVE ENGINEERING

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Clients- Power, Ports & Others

suez environnement Degrémont

WELSPUN

adani

Krishnapatnam Port Company Ltd.

JINDAL STEEL & POWER

Hazira Port Private Ltd.

Spectrum COAL & POWER LIMITED

torrent POWER

APGENCO

DPCL

KANDLA PORT TRUST ISO 9001:2008

MUNDRA PORT SPECIAL ECONOMIC ZONE

KEC KEC INTERNATIONAL LIMITED

WABAG

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Certifications & Approvals

- An ISO 9001:2015 Certified Company
- Approved with CMPDI
- Approved with APGENCO
- Approved with TSGENCO
- Approved with BWSSB

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Contact Us

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~Thank You~

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