



TECHNICAL SOLUTION SYSTEM



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ABOUT US

Technical Solution System was born in the year 2020 and has evolved as a reliable Designer manufacturer and supplier of unparalleled range of Material Handling and other Cement Plant Equipments. These products are manufactured by utilizing latest machinery and advanced technology. The products manufactured by us are customized for best Design, Ruggedness, Reliability and Efficiency. Additionally we render prompt and timely Engineering and Consultancy services. These services are acknowledged for the appropriate solutions and cost effectiveness to the specific problems of the patrons.

Our company believes in the absolute concept of superiority of Quality. Therefore, we take all the required measures to offer impeccable products and services for the convenience of our patrons. Owing to this commitment, we have carved an enviable position as a reputed organization catering to the various requirements of Cement Plants. We are aided by a sprawling and well furnished infrastructure unit that facilitates manufacturing an impeccable Product line. It also enable us quality testing of our products, so that they can beat the best in the industry.

We at Technical Solution System, lay strong emphasis on the strict and timely delivery commitment, technical support and that too at the most optimum cost.

WORKING PHILOSOPHY

- **Dedication of our engineers in dealing various projects from conceptualization to commissioning.**
- **Past experiences of our engineers, who have worked in their respective fields in the various segments of the cement industry.**
- **Our working model of maintaining discipline and commitment within every stage of a project.**
- **Always to welcome the ideas from our clients for conceptualization and then to sort out the best ideas from the better ideas, as we believe that a user is always the best designer also**
- **Our experience of satisfying over 50 clients in India and abroad.**



SERVICES



- ★ All types of Diverting Gates (Manual, Motorized, Pneumatic)
- ★ All types of Control Gates (Manual, Motorized, Pneumatic)
- ★ All types of Conveyors (Screw Conv. Chain Conv. Belt Conv.)
- ★ Air Slide Related (Air Slide, Air Slide Blower, Air Slide Diverter)
- ★ Vibro feeder, Vibrating Screen, Rotary Air Lock
- ★ All types of Damper Multi louver, Guillotine, Rack & Pinion Type
- ★ Bucket Elevator, Flap gate & Flap Valves (Single/Double)
- ★ Cement bag packing Machine (Single/Double) Roto Packer
- ★ Bag Divertor (Pneumatic/Powerless)

PRODUCT GALLERY

Technical solution system is involved in designing, manufacturing and commissioning of various customized products which include.

Silo Equipments including Air Slides, Flow Control Gates, Pneumatic and Manual Cut off Gates.

Equipments Manufacturing and Servicing-

- Air Slide (Closed/Open)
- Air Slide Diverter
- Air Slide Blower
- Air Slide Parallel Distributor
- Belt Conveyor
- Belt Conveyor Trestle/Gallery
- Bag Filter & Fans
- Bucket Elevator
- Collecting & Control Bin
- Compensators of S.S. / M.S.
- Dump/Feed Hopper
- Diverting gates
- Damper-Guillotine, Multi lover, Butter Fly
- Expansion Joints
- Flow Control Gate
- Flap Valves/Gate



Pneumatics- All Cylinders Standards Well as Customized and of All Sizes of Reputed Makes All Solenoid Valves, Auto Drain Valves, Filter Units of Any Specifications.

Mechanical- All Type of Mechanical Spares for Raw Mill, Kiln Cement Mill, and Packing Plant.

Electrical - All Type of Motors, Drum Motors, Transformers, Actuators and MCC Spares.

Instrumentation - Repairing of All Packer Cards, Supply of Sensors and Strain Gauges Including Probes, Load Calls, Special Type Proximity Switches (Inductive and Capacitive), Positioners & PLC's.

We are Also Importing Several Items from Various Countries Like Germany, Netherland, Italy, USA, England & Japan.

PRODUCT GALLERY

- Material Feed Bin/Hopper
- Material Regulating Gates
- Needle Gates
- Pneumatic Conveying System
- Rotary Air lock/ Rotary Feeder
- Slide Gate/Shut-off gate
- Screw Conveyor
- Screw Sampler/Belt Sampler
- Screw Feeder
- Sector Gate/Control Gate
- Splash Box/Junction Box
- Storage Tanks
- Truck loader
- Trolley Bins, Motorized Sutter New Bins Designing
- Vibrating Screen/Counter vibrator
- Vibro Feeder
- Apron Feeder
- Weigh Feeder
- Cycling valve (Blinding silo)



PRODUCT GALLERY



Roto-packer



Single-Spout Packer



Pneumatic Rotary Gate



FCG Pneumatic Type



FCG Shut of Type



Motorized Dozing Valves



FCG Lower Type



Motorized Air Slide Diverter



Diverting Gates

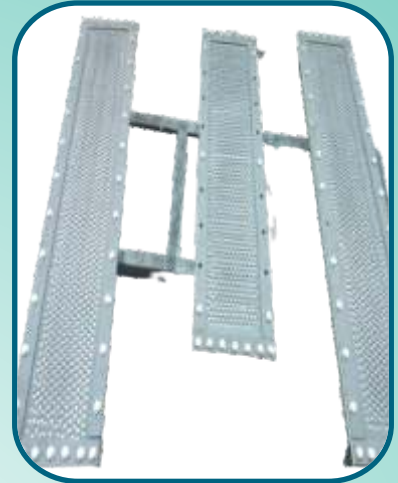
PRODUCT GALLERY



Guillotine Damper



Air Slide



Open Air Slide



Pneumatic Bag Diverter



Air Slide Diverter



Screw Conveyor



Manual Butterfly Dampers



Roller & Drum Pully



Motorized Diverter for Clinker

PRODUCT GALLERY



Vibrating Screen



Pneumatic Diverter



Manual Slide Gate



Bag Cleaning



Curved Blade Gate



Motorized Butter Y-Damper



Fan Blower



Manual Knife Gate



Two Way Air Slide Gate

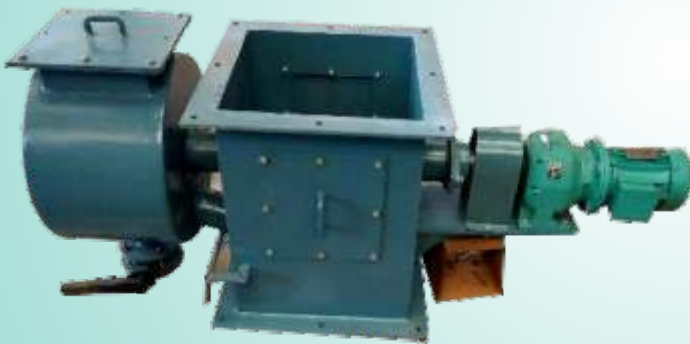
PRODUCT GALLERY



Pneumatic Shut Off Gate



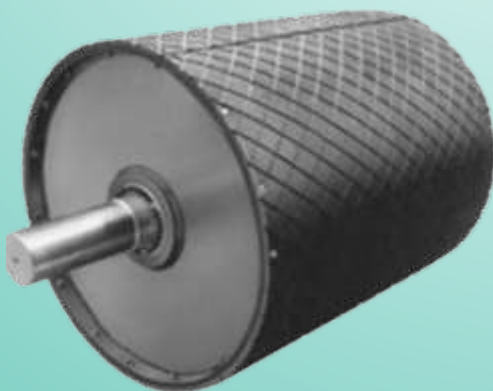
Cycloning Valve (Blending Silo)



Screw Sampler



Rotary Air Lock Valve



Drum With Rubber Lagging



Return Idler

DESIGN & ENGINEERING SERVICES



We are the fastest growing Engineering based company involved in Engineering Consultancy, equipment design & Contract manufacturing services to cement, mineral, power, steel, sugar & fertilizer units. Our expertise in Bulk material handling systems, plant upgradation, retrofitting jobs & energy efficient solutions (WHRS & AFR) for the plants are distinctive.

We have experienced team of designers to carry out all type of design & detail engineering jobs related to Mechanical, civil & electrical.

- Other Innovative Services for Cement & WHRS.
- Portable kiln coating monitoring system.
- PTech system for monitoring online heat loss through Preheater.
- Heat input display for WHRS.
- Low cost online heat balance system for pyro processing.
- Low cost scanner for monitoring raw mill material size.
- Ball mill grinding media assessment machine.
- Process condition monitoring of process fans.

DESIGN & ENGINEERING SERVICES

We are leading Engineering consultant and also provide Design Engineering contract manufacturing services in the Field of cement, power, Steel, sugar & fertilizer units, with material handling and plant Up-Gradation systems, retrofitting jobs.

We have sufficient design engineering staff to carry out any types of design & detail engineering works related Mechanical, Civil & Electrical to the above fields. We request to you enlist the Bheema Engineering company in your vendor list and send us regular enquiries to your requirements for these natures of jobs

1.0 Mechanical Engineering

- Design & Detailing Engineering of Raw/Coal material Crushing Storage and Handling Systems, also Gypsum & Fly ash Handling System.
- Design & Detailing Engineering of Hoppers/Bin and Storage Silo's.
- Design & Detailing Engineering of Belt Conveyors, Screw Conveyors, Chain Conveyors, Slat Conveyors, Bucket Elevators and Air Slides etc.
- Design & Detailing engineering of All Types of Dampers (Multi Louver, Butterfly, Guillotine) & all Types of Control Gates/Valves, Proportioning gates, Diverting Gates, Expansion Joints.
- Design & Detailing engineering of Ducting/Venting for Hot air gases and Bag Filter/Bag House Venting with BOQ/BOM.

2.0 Civil/Architectural Engineering

2.1 Civil/ Structural

- Design & Detailing engineering of Plant/Administrative office, commercial & institutional infrastructures, Hospitalities and Multistoried Buildings / Residential Apartments.
- Design & Detailing engineering of platforms, Storage Sheds, Hoppers, Silos and various types of Bridges & Culverts.
- Design & Detailing engineering of Structural Sheds, Belt Conveyors Gallery, Trestle and Transfer Tower, truss of any kinds.
- Pre-stressed Concrete Girder Bridge, Suspension or Cable Stayed Bridge etc.
- Design & Detailing engineering of Excavation, footing plan and elevations.
- Design & Detailing engineering of columns and reinforcement.
- Design & Detailing engineering of Beam/Slab and reinforcement.
- Estimating and costing , BOQ/ BOM, BBS

2.2 Architectural

Architectural plans and elevations, three dimensional views (3D, Rendered, isometric) etc.

3.0 Electrical Engineering

- Switchyard, Single Line diagram, MV Board, LT Board MV and LV Capacitor, Battery and chargers, Auxiliary power, Lighting, power schedules
- Basic engineering: System design, equipment selection, tender preparation and evaluation.
- Detail engineering: Cable routing & cable schedule, earthing and lightning protection, relay coordination, transient studies, drum schedule, electrical room designing.

4.1 Site super vision and Up-gradation study.

4.3 Co- ordination with client, vendor/ contractor, suppliers and site engineers.

5. Other Innovative Services for Cement & WHRS.

- 5.1 Portable kiln coating monitoring system.
- 5.2 P Tech system for monitoring online heat loss through Preheater.
- 5.3 Heat input display for WHRS.
- 5.4 Low cost online heat balance system for pyro processing.
- 5.5 Low cost scanner for monitoring raw mill material size.
- 5.6 Ball mill grinding media assessment machine.
- 5.7 Process condition monitoring of process fans.

BHEEMA ENGINEERING COMPANY

Engineering - Surveying - Solutions.

We Serve In

**Cement, Steel, Power, Chemical
&**

Material Handling System

We also deal in WHRS & AFR

1

**Civil/Architectural
Engineering**

2

**Mechanical
Engineering**

3

**Electrical
Engineering**

4

**Process
Engineering**

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