



TEASER CONSULTING ENGINEERS PVT. LTD.



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TEASER CONSULTING ENGINEERS PVT. LTD.

ABOUT US

We are specialized in providing end-to-end consulting and design solutions for cement plants across the globe. With a deep understanding of the cement industry, our team of experienced engineers, designers, and project managers is dedicated to helping clients plan, design, and optimize cement production facilities with efficiency, safety, and sustainability at the core.

Whether you're building a new plant or upgrading an existing one, our team ensures technical excellence, cost-effectiveness, and compliance with national and international standards.

Our mission is to empower cement manufacturers with innovative engineering solutions, reducing energy consumption and environmental impact while enhancing productivity and profitability.

Engineering Services:

1. Feasibility Study & Project Planning

- Market analysis and raw material availability.
- Cost-benefit analysis
- Environmental and social impact studies
- Technical feasibility studies

2. Basic & Detailed Engineering Design

- Process flow diagram (PFD) and piping & instrumentation diagram (P&ID)
- Plant layout and general arrangement (GA) drawings
- Mechanical, electrical, civil, and structural design
- Instrumentation and control systems design
- HVAC and utility system design



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3. Procurement & Vendor Support

- Specification and selection of equipment (kilns, crushers, mills, etc.)
- Vendor evaluation and technical bid analysis
- Preparation of procurement documents and BOQ
- Inspection and quality assurance of equipment

4. Project Management & Construction Supervision

- Scheduling and project tracking (using tools like MS Project or Primavera)
- Construction management and supervision
- Safety management (HSE compliance)
- Interface management with civil contractors and OEM suppliers

5. Energy & Environmental Engineering

- Energy audit and efficiency improvements
- Emission control system design (e.g., bag filters, ESPs)
- Waste heat recovery system (WHRS) design
- Water and waste management systems

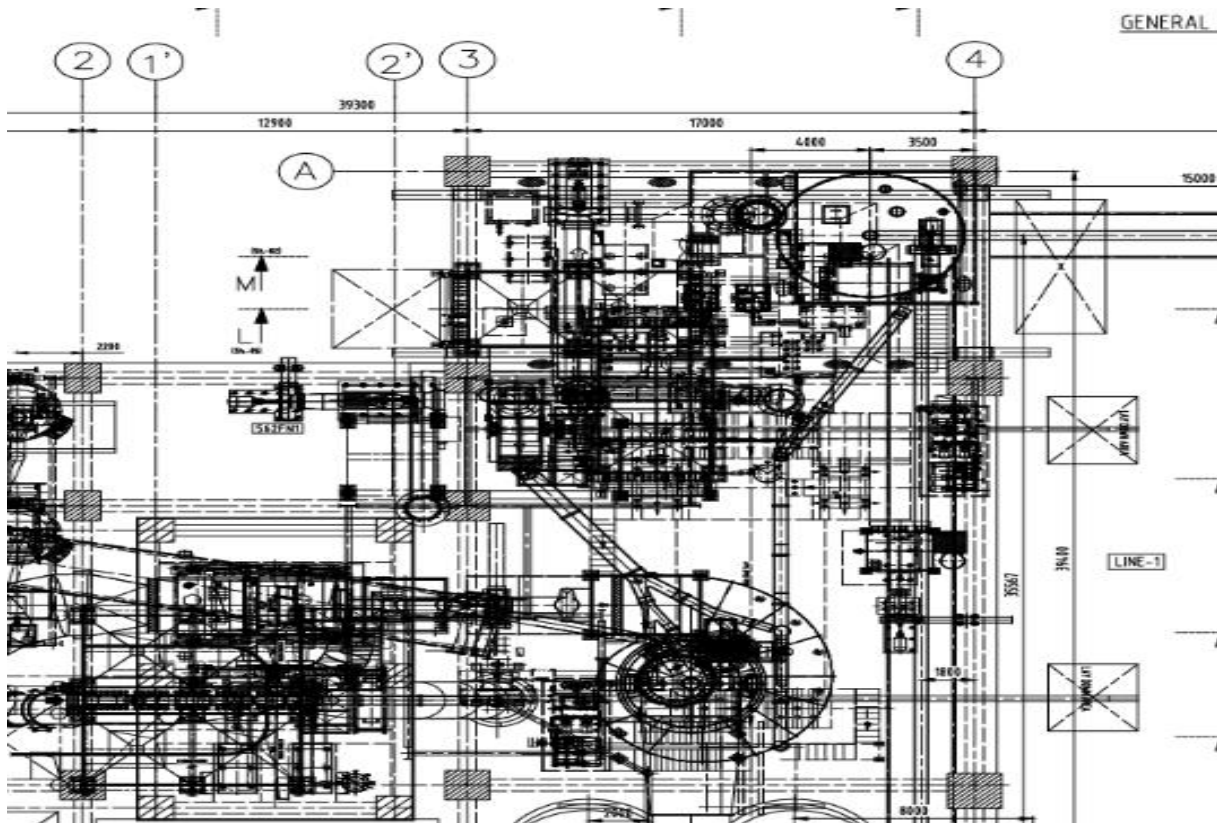
6. Retrofit, Upgrade & Modernization Services

- Capacity enhancement studies
- Replacement or upgrade of outdated equipment
- Process debottlenecking
- Integration of alternative fuels or raw materials (AFR)



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Mechanical & Layout Engineering: -



Comprehensive Plant Layouts: -

- TCEPL delivers accurate and efficient plant layout designs that ensure optimal flow and space utilization. Their designs aim to maximize productivity while minimizing material loss and operational complexities.

Key benefits of plant layouts include:

- Improved material movement across the plant.
- Reduced energy consumption and downtime.



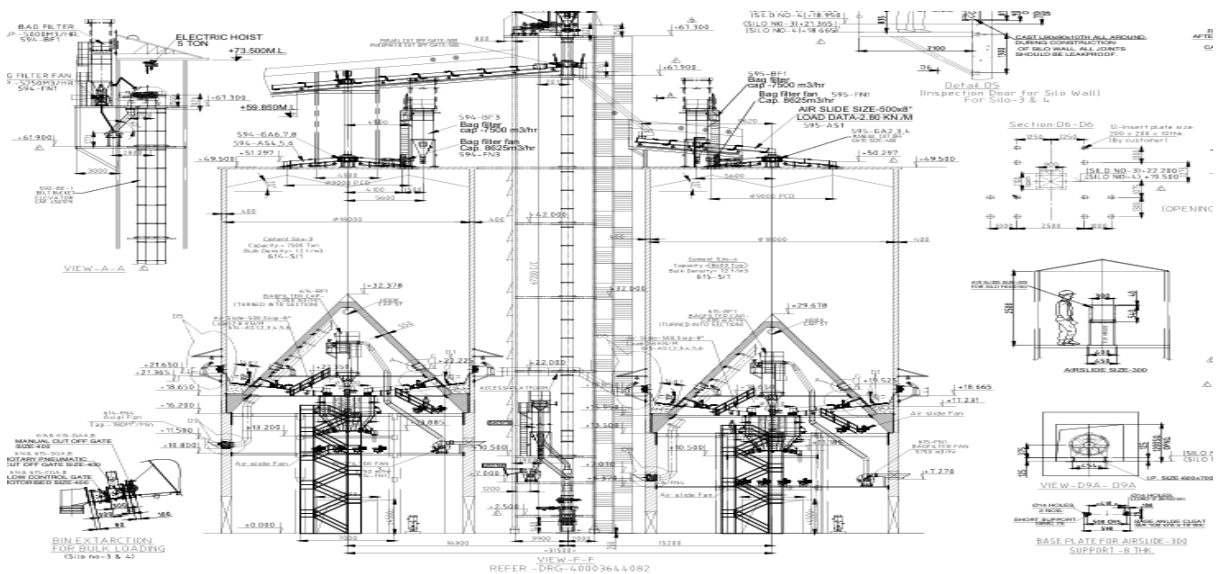
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General Arrangement (GA) Drawings: -

- GA drawings are essential for understanding the positioning of equipment and spaces within a plant. TCEPL provides detailed GA drawings to ensure all components fit seamlessly into the overall design.

Why it matters:

- Accurate GA drawings eliminate layout clashes and ensure efficient equipment arrangement, reducing costly reworks during installation.



Vendor Drawing Reviews: -

- Integrating equipment from multiple vendors can be challenging. TCEPL meticulously reviews vendor drawings to ensure all external components align with the overall design of the facility, delivering error-free installations.

Benefit:

- This service eliminates misalignments between vendor-supplied equipment and facilitates smooth integration.

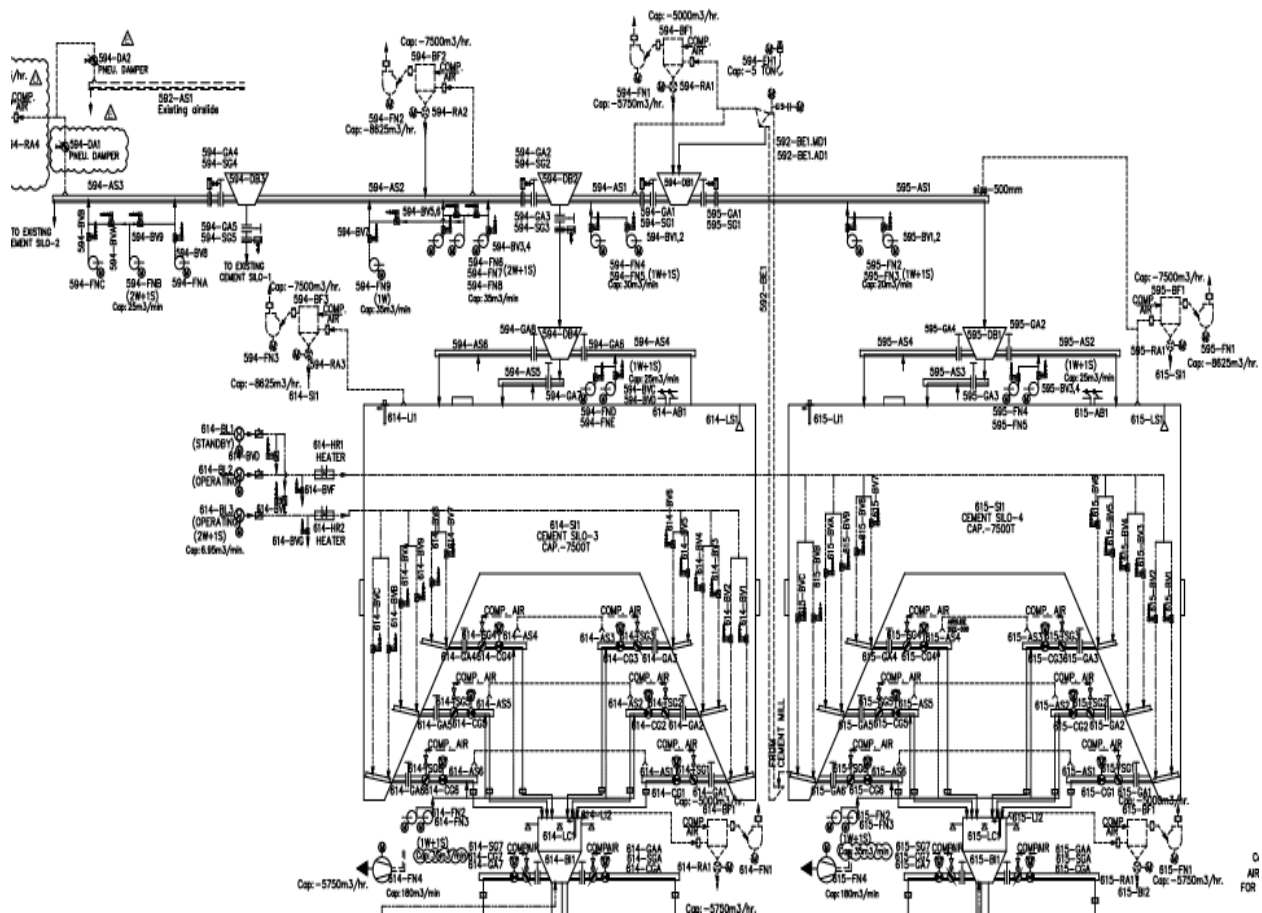


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Flow Sheets & Equipment Lists: -

TCEPL provides detailed flow sheets and equipment lists for every project. These documents serve as a comprehensive guide to the plant's operations, ensuring clarity and consistency.

- Flow Sheets: Illustrate step-by-step processes for material flow.
- Equipment Lists: Specify every component required, keeping procurement organized.





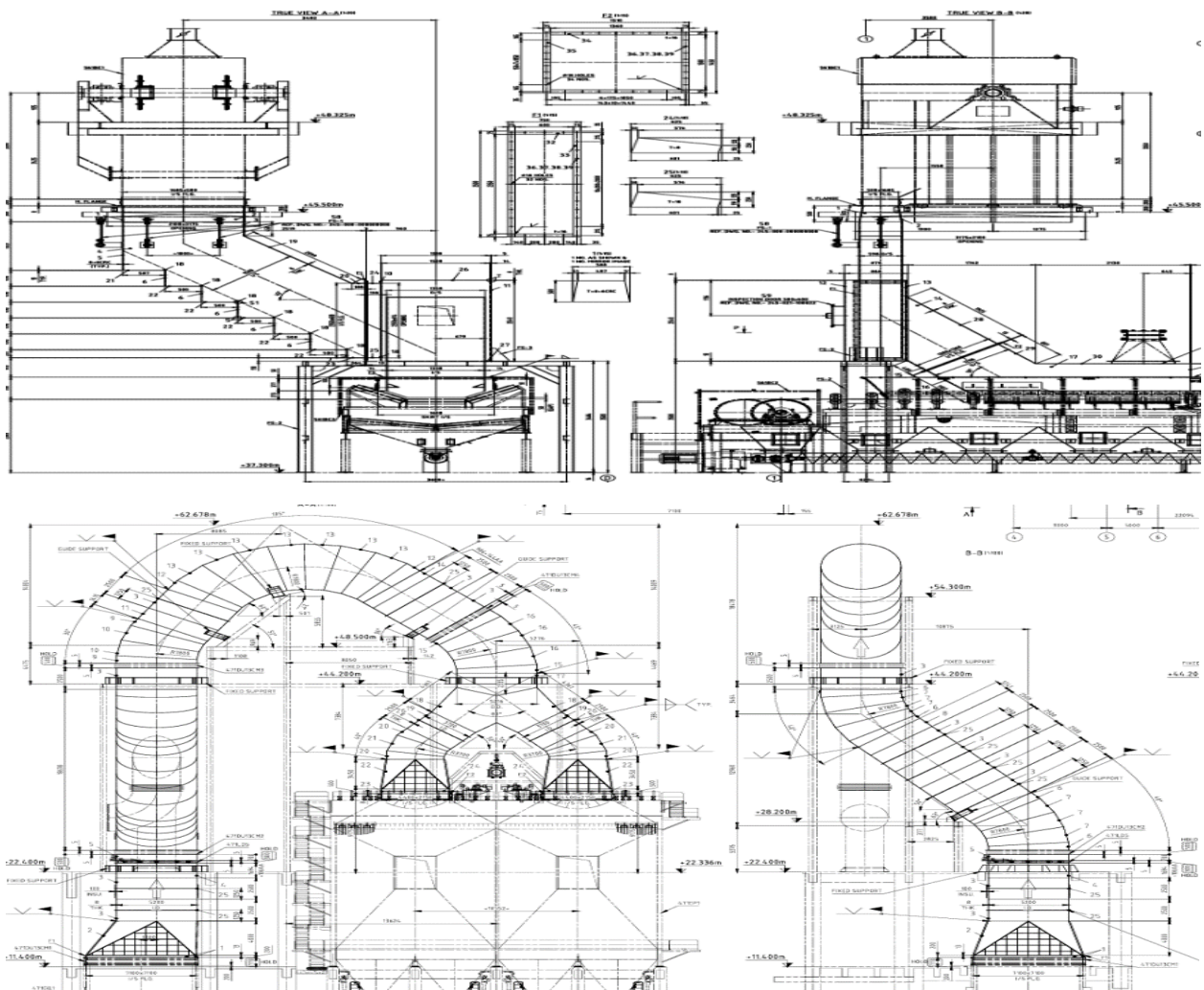
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Design & Detailing of Chutes and Ducts: -

- Properly engineered chutes and ducts are crucial for efficient material transportation in cement manufacturing. TCEPL excels in designing chutes and ducts to reduce spillage and blockages.

What sets TCEPL apart?

- Their designs ensure smooth material flow, reducing wear and tear and operating costs.





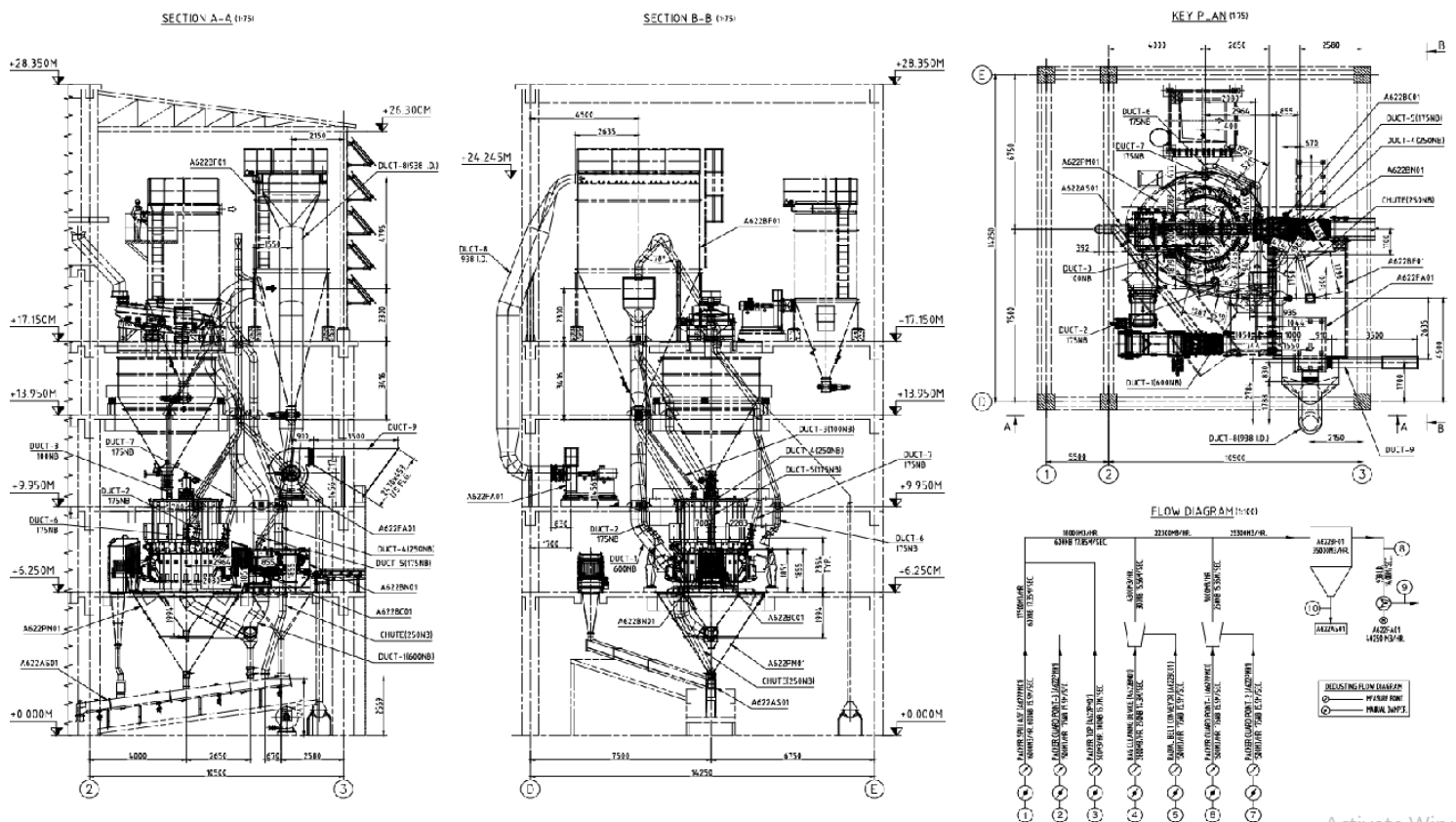
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Venting Design & Detailing: -

- Proper venting is vital for maintaining air quality and pressure balance within industrial installations. TCEPL provides innovative venting solutions tailored to your plant's specific requirements.

Added value:

- Enhanced safety, reduced emissions, and improved working conditions.



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Utilities Sizing, Piping, and BOQ: -

TCEPL specializes in sizing utilities, designing flawless piping systems, and preparing Bills of Quantities (BOQ) to help streamline installation processes.

Why this matters:

Accurate utility sizing reduces wastage.

Well-designed piping ensures safety and efficiency.

3-D Drawing Preparation

Gone are the days of relying on 2-D schematics. TCEPL employs cutting-edge 3-D design technologies to bring plant designs to life before implementation.

Advantages of 3-D Drawings:

Enhanced visualization for stakeholders.

Fewer on-site errors during construction or installation.