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# Creating Excellence in Engineering

EPC for Thermal Power Plant | Operation & Maintenance | Infrastructure & Civil Work

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# Introduction

Company Name .....Tescon Energy & Infrastructure Ltd.

Managing Director .....Mr. Rajesh Kumar Singh

Certification .....ISO – 9001:2008

Date Of Establishment .....Aug 1997

Discipline .....Manufactures, Supplier, Engineer and Construction

Our Subsidiary Companies .....1) Tescon Projects  
2) Tescon Engineers  
3) Tescon Engineers Pvt. Ltd.

Registered Office .....D – 480, 2nd & 3rd Floor, Palam Extension  
Sector – 7, Dwarka, New Delhi – 110045

Tel .....+91-11-25074991, 25679275, 25679276

E-mail .....info@tescongroup.in

Website .....www.tescongroup.in

Number of Employees .....150





## Overview

In 1994 as sole proprietorship Mr. Rajesh Kumar started the operation with a team of 20 to 25 people in the process industry with job contract of Bulk Material Handling System. With the yielded success soon a Pvt. Ltd. company was formed with satisfied customers willing to place repeat orders.

In a short span of 18 years we have evaluated to start a limited company viz., Tescon Energy & Infrastructure Ltd. We have 40-45 installation to our credit. Now a day's Tescon Energy & Infrastructure Ltd., an ISO-9001:2008 certified company with its head office in New Delhi, India is a multi – disciplinary company with diversified interests in Power, Energy & process Industries. We are now executing Coal, Bagasse, Lignite and Biomass fired power plant with unit size ranging from 2 MW to 50 MW as well as wide range of products & services including BOP, Bulk Material & Ash Handling Plants.

We are an ISO 9001:2008 certified company. We believe in satisfying customer by offering quality products in the specified time. We support the customer with the after sales service in time as per his requirement. We thrive for offering products and services to the customer backed by latest technology.

## Our Array of Operation

- EPC of Coal & Biomass based Thermal Power Plants
- BOP packages of Thermal power plants.
- Pre-engineered buildings & warehouses
- Renovation & modernization of thermal power plant
- O & M of thermal power plant
- Supply of Balance of Plant
- Bulk Material Handling System
- Ash Handling System Dry fly ash & Bed ash handling
- Retrofitting, re-engineering and overhauling of turbines and boilers.
- Design & Engineering of Starch plant
- E.P.C supplier of starch & Rice Plant
- E.P.C. supplier of Fuel gas Diffusion system (F.G.D) for Boilers & Power Plant.

## Our Mission

- To design and implement plants at the minimal capital cost & ensuring high plant availability.
- To create excellence in engineering, research and development, innovation and balancing various resources.
- To continually improve our expertise and give world class service to satisfy customer needs.
- Utilize resources effectively for minimizing the project cost and timely implementation.

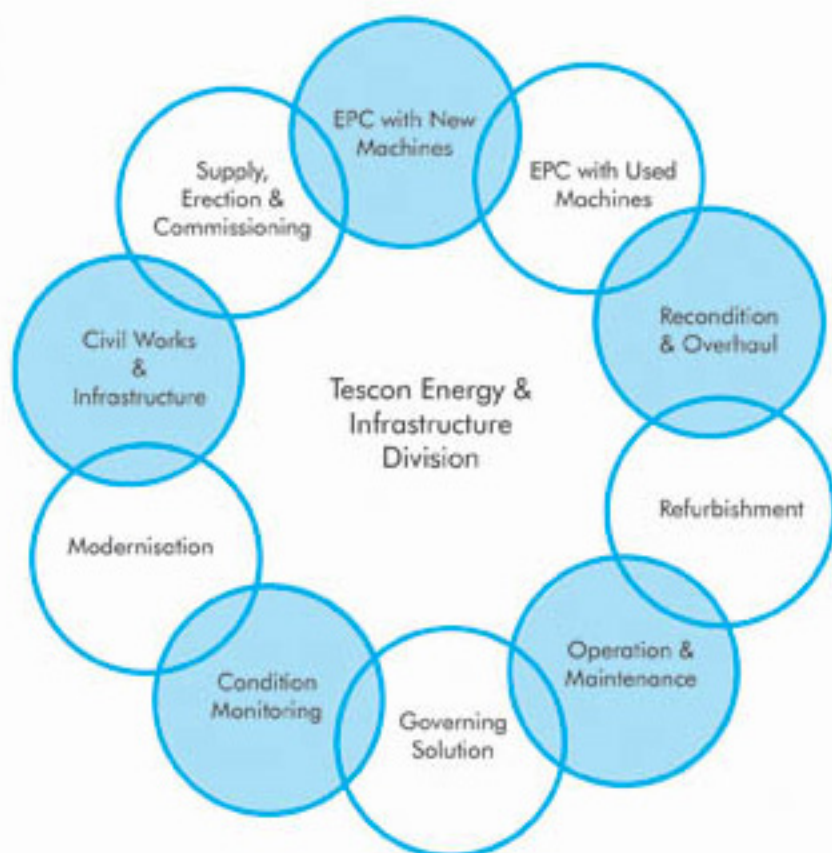
## Our Vision

- Come first in customers mind as the most trusted company.
- An agency to provide total solution for energy and infrastructure.
- Benchmark quality, resource, reliability.
- Single Point contacts for your project management allowing you to focus on your own business.

## Our Policy

Tescon Energy & Infrastructure Limited, is to further enhance its pool of talent and offer the facilities, incentives, environment and infrastructure to simulate organizational vision of offering world class integrated solution in the energy sector. As a group we are confident that by understanding our customers' requirement, anticipating their future needs and responding with innovative solutions, we will continue to grow and lead the industry forward by empowering engineering innovations.

## Field of Specialization







The Tescon Group's intended Power Projects include turn-key contracting of BOP / EPC packages up to 50 MW sizes.

For BOP Packages, we are well geared up for undertaking 1 to 50 MW coal / lignite and biomass based thermal power plants. We are dealing into Coal / Ash / Water / Piping / Electrical systems and assure our prospective clients a well equipped site construction project team / mechanized construction equipments.

We are promoting EPC - Total solution for Coal / Lignite & biomass based thermal power / co-generation plants. Here, our holistic approach is to incorporate techniques and processing practices inculcated from various industries such as sugar, cement, paper, aluminum, steel, textiles, fertilizers, chemicals, breweries, rubber, glass, food, pharmacy to dairy industries thereby working beyond the confinements of a single industry.



## Consultancy of Power Plant

### Project Implementation Services:

- Basic and Project Engineering Services
- Process flow / Material flow
- Technical schemes Plant & facilities layouts
- Selection of production units
- Energy optimization and conservation

### Service and utilities

- Plant Layout
- Detailed drawing for civil works, structural, electrical, utilities and other services
- Material handling and storage
- Transportation

### Construction Management

- Site survey and soil investigation
- Site preparation
- Construction planning
- Civil foundations
- Supervising, erection of structure and equipment
- Certification
- Quality control

### Project Management

- Network planning
- Quality assurance
- Contract engineering
- Procurement services
- Time and cost monitoring/ control
- Inspection and acceptance
- Manpower planning
- Human Resource Development
- Commissioning
- Supervision of start-up and commissioning
- Supervision of performance tests
- Evaluating performance guarantees
- Certifying acceptance

## EPC Power Plant with used machinery

We offer diesel generator sets, natural gas generator sets, gas turbines with combined cycle, coal, oil & gas fired power plants, steam turbines and cogeneration power plants from 2MW to 50MW.

We also assist in engineering, design, supply of Balance of Plant & Equipment, installation & commissioning for the used power plants.







- Expert in Operation & Maintenance of Power Plants.
- Tescon staff have a number of years of hands on experience on power plant equipment on Operation & Maintenance.
- Tescon has strategic tie- up with various OEM for their Operation, Practices & Standards.
- Provides planned maintenance (minor and major) and preventive maintenance of the rotating equipment, boiler etc.
- Tescon has strong in house ISO certified documentation and proceeds from OEMs to be adhered to
- Supply of Spare Parts as required in Operation & Maintenance of Power Plants.
- Field Support Services from other Independent and dedicated Service Group of instrumentation and automation.





## Services for Existing Operating Plants

- Study and analysis of existing plant performance
- Recommendations for improving performance
- Changes / modifications to achieve / enhanced capacity.
- Increase plant availability.
- Preparing maintenance schedule.
- Reducing cost of production.
- Reducing specific consumption of raw materials.
- Raw materials and finished stock reconciliation.
- Manpower planning
- Sourcing of critical spares and consumables.
- Spares inventory.
- Plant waste management.







## Supply, Erection & Commissioning of Turbine and Boilers

We have wide range of Steam Turbines from single stage machine to multistage in the power range of 500 KW to 30 MW throttle & nozzle governed back pressure turbines.

We also supply Steam Boilers of various kind like, Atmosphere fluidized Bed Combustion, Waste Heat Recovery Boiler (WHRB), water tube & fire tube boiler along with all related accessories from 10 tph to 100 tph in the range of 10-85 kg/cm<sup>2</sup> (g) working pressure.







## Infrastructure & Civil Work

Tescon Infrastructure development business is focused on executing large civil and urban projects such as roads, highways, buildings and airports etc. The division envisions a Pan India Build, Operate and Transfer (BOT) project portfolio with a strong focus on the highways & building sector.



## Strategic Advantage

Tescon office and workshop are manned by experienced professionals with enviable reputation of working in computer friendly environment with simultaneous training to the operating staff for streamlining and enhancing operational efficiency. Tescon is fully backed by very strong engineering support.

## Manpower

To promote this model of excellence the people at Tescon are the key enablers for successful business, who are highly charged, motivated, caring and can deliver at the frontier of performance which is the ultimate resource of any successful corporation. We take pride in our family of handpicked, highly experienced and trained professionals.

## Customer Focus

In our passion to be an integrated customer focused organization, we have structured ourselves to provide the best for our customers to monitor and ensure quality through our well established quality programmed, designed to exceed the expectations of some of the most stringent quality standards.

## Quality Control

well qualified and experienced QC section monitors quality at every stage of manufacturing - starting from the procurement of raw material and bought-outs till the end products through well established quality control, documentation and procedures.







Tescon Energy & Infrastructure Ltd. undertakes projects of Bulk Material Handling System covering belt conveyors, slat conveyors, bucket elevators, stackers, and reclaimers, various types of crushers, vibrating screens, feeder and conveyor components like idlers, pulleys and structural steel fabrication.

Tescon has received large contracts of Bulk Material Handling system from many industries viz Steel, Power, Cement, Paper and Food sectors etc and various organizations across the country for the past 16 years.

## Product Range

### Bulk Material Handling

- Belt conveyors and systems
- Pipe Conveyors
- Belt feeders
- Slat chain conveyors
- Screw conveyors / screw feeders
- Drag chain conveyors
- Apron feeders
- Bucket elevators

### Turnkey Projects

- Coal handling plants
- Ash handling systems
- Biomass handling systems
- Coal storage and reclaiming plants
- Aggregate Process plant for minerals
- Solid Waste Management systems for compost and Alternative / secondary fuel for cement / power plants.

### Equipment

- Crushers
- Roll crushers, Impactors, hammer mills etc.
- Circular motion and linear motion vibrating screens
- Flip flow screens
- Sizers
- Vibratory feeders, reciprocatory feeders.

### Components

- Idlers
- Pulleys

### Unit Load Handling Systems: (for handling parcels, Bags for Fertilizers, Cement industries etc.)

- Roller conveyors
- Slider bed conveyors
- Truck / wagon loading conveyors
- Airport Baggage Handling System

### Consultants and leading EPC companies who have approved Tescon for Material Handling Systems / Manufacturing Plant

- Aquatherm Engineering Consultants (India) Pvt. Ltd.
- Avant-Garde Engineers & Consultants (P) Ltd., Chennai
- Cethar Vessels (P) Ltd, Trichy
- Desein Limited, New Delhi
- Development Consultants Ltd., Mumbai / Kolkata
- Engineers India Limited, New Delhi
- Holtec Consulting Pvt Ltd. New Delhi
- Mitcon Consultancy Services Ltd., Pune
- Predominant Engineers, New Delhi
- Projects Development India Ltd., Noida



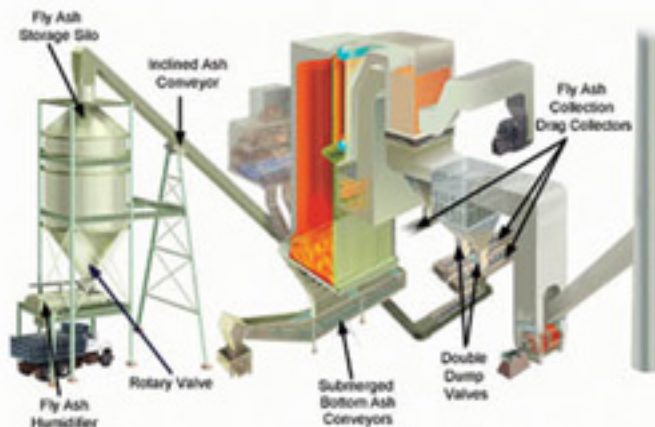




## FLY ASH STORAGE AND UNLOADING SYSTEM

In pneumatic systems, the storage silo and its accessories are crucial to successful operation. These silos range from 4 – 10 meters in diameter and are constructed of welded steel plate or concrete. Ash material flows into the silo, the displaced air exits through a bag filter installed at the silo roof. A safety relief valve prevents damage to the silo or separating equipment due to unusual surges of positive or negative pressure in the silo. On the operating floor, fluidizing equipment assists ash flow to the outlets.

Two types of unloading equipment are available. Paddle mixer (screw conveyor) with rotary vane feeder unloaders provides an optimum mixture of ash and water to minimize dust pollution during unloading. A telescopic unloading spout can be used to discharge dry ash to closed carriers for mixing with cement.



## ASH UTILIZATION & MANAGEMENT

Tescon Energy & Infrastructure Ltd. is a well-established organization with multi-disciplinary team of experienced professional in captive power plant, beginning from 1 MW to 50 MW in Fuel & Ash Handling Systems. The equipment is manufactured under strict quality control conforming to national and international standards like IS 11592, IS 800 / 875 in Handling Equipments. The various reasons for our outstanding success are:

- Our competent professionals.
- Our prime motive of maintaining appropriate standards to keep up the quality and tune with the latest technology.
- Our most thorough planning, coordination and scheduling of projects.
- Our most competitive price for consultancy, manufacturing, installation & commissioning with vast resources at our command.

## SUBMERGED CHAIN BELT CONVEYOR FOR BOTTOM ASH

Tescon designed a mechanical system to handle bottom ash with the Tescon Mechanical Ash Remover. The Tescon Type SBC is designed for use with coal fired units along with bio mass fuel based boiler. The unit provides a high discharge rate, consumes less energy and less water than a sluice system, and it is adaptable to areas with restricted headroom. The system is best used for short conveying distances.

## DRY BELT CONVEYOR FOR SPENT BED ASH

To handle spent bed material from a circulating fluidized bed combustor, Tescon also manufactures the Tescon® type DBC (Dry Belt Conveyor). This mechanical system consists of a leveled or inclined Belt/Chain conveyor enclosed in a metal trough to control fugitive dust.



# CLIENTS

## PAPER

- Narendra Paper Products Ltd.
- Century Pulp & Paper
- Shri Ganga Paper Mills (P) Ltd.
- Shakumbhari Straw Products Ltd.
- Magnum Papers Ltd.
- Anand Triplex Board
- Kailash Papers Products
- Bindal Papers Ltd.
- ABC Paper Ltd.
- Anand Duplex Ltd.
- Mohit Paper Mills Ltd.
- Shri Krishna Paper Mills & Industries Ltd.
- Shalimar Krafts & Tissues Pvt. Ltd.
- Sumit Agro Products Ltd.
- Tehri Pulps & Paper Ltd.
- Aggarwal Duplex Ltd.

## STEEL

- Abhinav Steels Pvt. Ltd.
- Kohinoor Steel Pvt. Ltd.
- Rana Sponge Ltd.
- Tata Tinplate Ltd.
- Bindal Sponge Ltd.

## POWER

- Sukhbir Agro Energy Ltd.
- Shirpur Power Ltd.
- Shantha Projects Pvt. Ltd.
- Badarpur Energy Pvt. Ltd.
- Kanpur Fertilizers & Cement Ltd.
- Kalpataru Power Transmission Ltd.
- Shri Laxmi Cotsyn Ltd.
- Industrial Boilers Ltd.

## CHEMICAL / DAIRY / SUGAR / FOOD

- Universal Starch Chemical Ltd.
- J. K. Dairy & Foods Ltd.
- Vishal Lecto India Ltd.
- U.P. Minerals Ltd.
- Hindustan Lever Ltd.
- Bharat Dairy Ltd.
- Chandigarh Distillery & Bottling Ltd.
- Guru Teg Bahadur Sugars
- A. B. Sugars Ltd.
- Shreeji Milk Food Ltd.
- Nuway Organics Naturals Ltd.
- Milk Kraft Projects Ltd.
- Frito Lay India (PepsiCo)
- Khasa Distillery Company
- New Era Dairy Engineers Pvt. Ltd.
- Kanpur Fertilizers & Cement Ltd.
- Saraya Distillery Ltd.
- Usher Eco Power Ltd.
- Amrapali Foods Ltd.
- Dwarikesh Sugar Industries Ltd.
- Unique Sugars Ltd.
- Kanpur Fertilizers & Cement Ltd.

## SPINNING & WEAVING

- Deepak Spinners Ltd.
- Grasim Industries Ltd.
- Vikram Wollen Ltd.

## CEMENTS

- Barak Valley Cements Ltd.



## CERTIFICATIONS



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**TESCON GROUPS**

D- 480 2ND FLOOR, PALAM EXTENSION

SECTOR-7, DWARKA, NEW DELHI - 110075

Mobile : +91 8076503683

Email : [tesconengineers@gmail.com](mailto:tesconengineers@gmail.com)