

BUILDING FOR INDIA **BANKING ON INDIA**



The background of the entire page is a dark, industrial scene. On the right side, there are bright, glowing orange and yellow sparks or molten metal, suggesting a welding or manufacturing process. The left side is darker and more blurred, showing some industrial structures.

Building for India. Banking on India.

*Empowering Infrastructure.
Enabling Progress.*

BTL EPC Limited stands among India's fastest-growing heavy engineering EPC companies, delivering integrated solutions across the core sectors of powering India's economy.

From complex project execution to precision-engineered fabrication, BTL EPC plays a pivotal role in India's industrial transformation.

Our investments in technology, talent, and infrastructure validate our commitment to India's growth ambition and infrastructure evolution.

Our vision

To be the engineering partner of choice in India's infrastructure journey of value through innovation, precision, and excellence in every project we undertake.

Our mission

To consistently deliver high quality, on-time projects that strengthen India's industrial foundation.



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Our milestones

We have grown across the years by witnessing in our capabilities and infrastructure, emerging as a responsible heavy engineering company

1965-1970: Established a manufacturing plant in partnership with UK's Tempered Tools Ltd., becoming a key supplier to steel plants, paper mills, plywood factories, and rail factories across India.

1970: Partnered DRDO to develop indigenous defence equipment and secured crucial quality certifications (DQAE and DQAV). Expanded the fabrication unit to produce boiler accessories, including air preheating systems, enhancing capabilities to serve defence and core infrastructure projects.

1976: Pioneered the indigenisation of border fencing with the 'punched tape concertina coil,' developed in collaboration with DRDO.

1977-1990: Emerged as a key supplier of mining conveyors and spares for Coal India. Diversified beyond traditional industries, producing a range of equipment from mechanical mine line equipment to mobile water purification plant to rocket launching pads.

1998: Acquired APV Engineering Company, gaining valuable expertise as a dairy plant and food processing EPC. Completed the Koraput dairy plant in 2000 with a milk processing capacity of 2,00,000 litres per day.

2000: Boosted efficiency by acquiring an adjacent factory to establish a fully automated conveyor roller and pulley unit.

2001: Registered with Engineers India Limited which enabled the direct supply of pressure vessels and heat exchangers to petrochemical and refinery giants, independently and through multinational EPC contractors. Secured major projects with Haldia Petrochemicals, IOCL-Barauni, and IOCL-Haldia.

2002: Expanded its production capacity by acquiring a Durgapur factory, enhancing our fabrication capabilities for larger projects.

2005: Our track record of supplying to Coal India enabled us to win major material handling projects, achieving success with clients such as BPSCL, CESC, ECL, and NTPC. Leveraged our pressure vessel expertise to enter



Coal Chemical By-Product projects in steel plants. Collaborated with VUKHIN Russia and executed projects like Durgapur BOF Gasholder, RSP Gas Condensation Plant and Bokaro Steel Plant Decanter.

2012: Morphed into a full-fledged industrial solutions provider, from underground mining conveyors to complex material handling projects for diverse industries. This diversification extended our annual turnover past ₹200 Crore.

2013: BTL transformed into BTL EPC Ltd. This new name reflected our position as a complete EPC contractor, reflecting our diverse projects across industries.

2014: Strategically ventured into Power Transmission EPC projects for state electricity companies, securing three initial projects and qualifying for high-voltage 400 kV power projects.

2018: Expanded into the ordinance factory sector, supplying and commissioning specialised machines for defence needs. Delivered a 10-ton ESR plant project and secured additional orders via joint ventures.

2019-2021: Despite the global pandemic's impact on industries, BTL EPC Ltd. maintained operations. Our resilience, coupled with the gap left by struggling competitors, led to new material handling and CCD projects. We completed a 3 MW solar power

project for the Ministry of Defence in 2020.

2022: Entered ash handling projects for thermal power plants, securing India's largest project through successful international collaboration.

2023 and beyond: Turnover surged to ₹550 Crore. Our strong foundation in manufacturing, engineering, and project execution, along with a ₹2,000 Crore order book, positions us for continued success. We plan to address EPC projects in the water division for STP (Septage Treatment Plant), WTP (Water Treatment Plant) and water distribution; special businesses like mineral beneficiation, FGV and ordinance factory machinery projects through foreign collaborations.

Our businesses

The sectors where we are present represent attractive growth proxies of the world's fastest growing major economy.



Bulk Material Handling



Ash Handling



Underground Coal Mining



Coal Chemical



Manufacturing



Defense



Power Transmission



Special Business



Water Management

Our business:

Ash Handling Division



Ash handling plant at Yadadri, Telangana

Overview

The ash handling division at BTL EPC Ltd. focuses on providing turnkey solution for the collection, transportation, and disposal of ash generated in coal-based thermal power plants. As emission norms tighten and demand for efficient ash disposal systems grows, the division plays an increasingly important role in diversifying BTL's project portfolio, strengthening its technical credentials and expanding its market presence across private and public sector opportunities.

Strengths

BTL EPC's presence in the ash handling segment is supported by key strengths:

- Experienced engineers with a domain expertise in ash handling systems.
- Robust in-house engineering and design capabilities.
- Access to a network of reliable vendors.
- In-house manufacturing facilities that ensure cost effectiveness and quality

Projects

Secured
₹185 Cr EPC
order from
Adani Raigarh
(2x800 MW)

Complete
design, engineering,
supply, erection,
commissioning
& PG test at Yadadri
Thermal Power
Plant of TSJGNCO
(5x800 MW)



Collector tank



Hydroejector (Jet Pump)

Products

We provide equipment and components for industrial systems across a variety of sectors, including Defence, Steel, Power, Oil & Gas, Cement, Mining, Coal, and Mineral Beneficiation.

- FAE Tower Structure
- Bag Filter
- Fly Ash Intake Valve
- Jet Pump
- Air Intake Valve
- Dust Conditioner
- Flushing Apparatus
- Wetting Head
- BA Overflow Tank
- Seal Through Flushing



High Concentration Slurry Disposal (HCSD) pump at YADADRI

Our business:

Bulk Material Handling Division

Overview

Bulk Material Handling Systems

The Company entered in bulk material handling in the 1980s and provides turnkey solutions from design to commissioning for industries like steel, power, oil & gas, cement, mining, metallurgy and minerals. Its offerings include conveyors, paddle feeders, hoists, and related equipment, delivering end-to-end systems for coal, iron ore, and other minerals, including conveying, crushing, and stacking for power, steel plants, fertilisers and process plant.

Key elements of Bulk Material Handling system

- **Conveying equipment:** Belt conveyors, screw conveyors, pipe conveyor.
- **Storage solutions:** Silos, hoppers, stockyards.
- **Feeding and discharge equipment:** Feeders, stackers, reclaimers, ship loaders/unloaders.
- **Auxiliary systems:** Dust suppression, weighing, sampling, and automation.

Bulk Material Handling systems are widely used in:

- **Mining and minerals:** Handling of iron ore, bauxite, limestone, coal, etc.
- **Power plants:** Coal handling systems for thermal power stations.
- **Steel :** Raw material handling systems, slag handling system.
- **Ports and terminals:** Ship loading/unloading of coal, fertiliser, grain, etc.
- **Fertiliser :** Urea baggage handling.

Project milestones

- Total 45+ projects completed valued around 1500 Crore+
- Total 20+ projects Ongoing valued around 4500 Crore+



Projects

- Coal handling plant, BIFPCL Bangaldesh Maitree
- Raw material handling plant, SAIL-DSP, West Bengal
- Pet coke handling system, IOCL-Paradip, Odisha
- EPC for urea bag handling and wagon loading system, HURL-Sindri, Jharkhand and Barauni, Bihar
- Coal handling plant and Wagon tippler package NBPPL 1X500 MW Unchahar, Uttar Pradesh
- Coal handling plant, Ennore SEZ, Tamil Nadu
- Coal handling plant, Sagardighi, WBPDL (A/C BHEL), West Bengal
- Urea handling and bagging package from Talcher Fertilisers Ltd., Odisha
- Udangudi main CHP Conveyor Package, Tamil Nadu
- Main conveyor package (CHP, LHP and GHP), Talcher TPP, Stage-III, Odisha
- Coal handling plant of NTPC Lara, Chhattisgarh
- AHP and CHP, Adani Raigarh, Chhattisgarh
- Coal handling, Lime Stone and Gypsum Handling Plant, Yadadri 5x800MW power plant, TSGENCO, Telangana
- Ash handling plant package from BHEL, Yadadri, Telangana
- Coal handling plant, NTPC Pakri, Bihar
- Coal handling plant, NTPC Talaipalli, Chhattisgarh
- Coal handling plant, NTPC Sipat, Chhattisgarh
- Material handling system of Berth 5 at Haldia dock



Coal handling plant for BHEL, Yadadri, Telangana

Moving materials. **Driving industries.**

*Innovative and dependable bulk handling systems engineered
by BTL EPC LTD*



Coal handling plant

for BHEL Bangladesh Maitree



Coal handling plant

for Yadari - 5 x 800 MW



Coal handling plant

for Adani Power Raigarh



RMHS sinter & coal route

for NMDC, Nagarnar



Urea baggage handling plant

for HURL, Sindri



Wagon tippler package

for NTPC BHEL



RLS Silo

for Pakri Barwadih mines



Rack & pinion gate

for industrial applications



Paddle feeder

for reliable material handling



Belt conveyor

for transportation across industries



Conveyor idlers

that reduce friction and maximize conveyor system life



Pulleys

to handle heavy loads & minimize maintenance downtime

Our business: **Coal Chemical Division**

Overview

The Company delivers turnkey coal chemical handling solutions, including coal blending, feeding, and specialised chemical plant units. It offers EPC services and key components for coke oven by-product recovery, managing materials like coal tar, ammonium sulfate and benzol, and supports chemical processing with equipment such as agitator tanks, distillation columns, condensate tanks, decanters, storage tanks and pressure vessels.

Core functions of Coal Chemical Division

- **Coke oven gas treatment:** Cooling, cleaning, and purifying COG.
- **By-product recovery:** Extraction of tar, ammonia, benzol, and other chemicals.
- **Utility supply:** Providing clean gas as fuel to coke ovens, rolling mills, furnaces, and power plants.

Products

Coal Chemical Division manufactures critical components and provides turnkey solutions for coke oven by-product recovery,

- Absorber
- Agitator Tank
- Condensate Tank
- FBD (Fluid Bed Dryer)
- Pressure Vessels
- Recuperator
- Saturator
- Decanter
- Primary Gas Cooler
- Electrostatic Tar Precipitator

Projects

Benzol absorption and Distillation plant at SAIL-DSP, West Bengal

Ammonium sulphate plant at SAIL Bokaro, Jharkhand and Vizag Steel, Andhra Pradesh

Byproduct plant at SAIL-Bhilai, Chhattisgarh

Electric exhauster at SAIL Bokaro, Jharkhand

De-nitration plant at HWB BARC, Chennai, Tamil Nadu





Process column at IOCL - 40m Long



Primary Gas Cooler at SAIL, Bhilai



Our business: Underground Mining

Overview

Underground conveyor systems are critical in mines due to their ability to transport bulk materials efficiently, safely, and economically especially in deep or complex mining operations.

Over the last 30 years, we have supplied our own make drive heads and conveyors to all coal india and its subsidiaries as well as private mines.

Collieries	Total no. of conveyors
South Eastern Coalfields (SECL)	250
Mahanadi Coalfields (MCL)	21
Western Coalfields (WCL)	57
Bharat Coking Coal Limited (BCCCL)	14
Eastern Coal Fields (ECL)	45
Singareni Collieries (SCCL)	55
Central Coalfields (CCL)	1
Private Collieries	25

Underground conveyors and Drive heads supplied

INDU	2x600 KW
Ultratech	2x315 KW
JMS Mining	2x250 KW
Eastern Coalfields	2x500 KW
Parasea-Belbaid Mine Project for Gainwell	2x275 KW



Pulleys for underground conveyor



Gear box for underground conveyor



Gear box for underground conveyor - 2x600 kw driven arrangement

Our business: **Strategic Business Division**

Overview

Our solutions include coal washing plants, ore beneficiation plants, utilities and balance of steel plants, industrial furnaces for heating and melting, and electrostatic precipitators.

Projects

10T ESR at
MSF Ichapur,
West Bengal

Hydraulic
forging press
for steel
complex of AJ
Ambazari,
Maharashtra

3 MW solar
plant at MES
Panagarh,
West Bengal



Hydraulic press for OFAJ, Ambazari, Maharashtra

Our business: **Power Transmission Division**

Overview

This division executes EPC projects for transmission towers to address the rising demand for new power evacuation lines. It serves PGCIL (Power Grid Corporation of India Limited), State Electricity Boards, and private players like Tata, L&T, and Sterlite, covering lines from 132 KV to 1100 KV and associated substations.

Projects

Power transmission Corporation of Uttarakhand Limited, 220 KV D/C & 132 KV transmission line

132 kV D/C Transmission line on Panther conductor from Pithoragarh (PGCIL) to Champawat (Lohaghat) in Uttarakhand

Himachal Pradesh Power Transmission Corporation Limited- 33 KV D/C transmission



Power transmission project, Uttarakhand

Our business:

Water Management Division



Septage plant at JUIDCO, Deogarh, Jharkhand

Overview

The water management division of BTL EPC delivers comprehensive solutions for water and wastewater treatment. This division plays a key role in executing standalone water projects and integrating water systems within larger industrial and infrastructure EPC contracts. It serves public and private sector clients, ensuring a compliance with environmental norms and promoting sustainable practices. Key clients include Jal Jeevan Mission in Assam, Jharkhand Urban Infrastructure Development Company Limited, NTPC Talcher and DVC, Bokaro.

Growth

The water management division at BTL EPC witnessed early-stage traction in FY 2024–25. The division demonstrated resilience by mobilising new resources, onboarding contractors, and stabilising project delivery. These efforts have laid the groundwork for growth.

Projects

- **Commissioning of the Deoghar Septage Treatment Plant** marked a milestone in municipal waste management.
- **Completion of the Hazaribagh Septage Plant** highlighted execution capability despite challenges.
- **Secured the first major wastewater treatment plant order**, a landmark 2,000 cum/hour capacity project from NTPC, Talcher.

Our business:

Manufacturing Division



State-of-the-art manufacturing excellence

State-of-the-art manufacturing facilities are spread over more than 10,00,000 square feet in Kolkata, Kharagpur, and Durgapur comprising modern equipment and skilled workforce supported by a large vendor base.

The Company developed versatile manufacturing capabilities by producing a spectrum of heavy engineering components, including the following:

- Belt conveyor systems and components
- Equipment for bulk material handling projects

- Ash Handling Equipment
- Pressure Vessels
- Ducts
- Tanks
- Refinery columns
- Steel silos

The Company leverages cost-efficient in-house manufacturing facilities to support EPC operations, providing a competitive edge over peers reliant on external procurement.

The Company possesses a strong production capability with over 24,000 MT/year fabrication capacity, along

with 1,80,000 rollers and 1800 pulley production / year, enabling the on-time execution of large EPC projects.

The Company is equipped with advanced in-house facilities for NDT, hydro testing, radiography, and painting, ensuring an adherence with global quality benchmarks.

The Company provides end-to-end fabrication solutions, covering the full cycle from material handling to dispatch, backed by in-house design and engineering competencies.



Our manufacturing strengths and competencies

We have created an innovation-led culture in heavy engineering solutions

Core skills: Heavy engineering fabrication competence (large height and weight).

Specialisation: Established competence in the fabrication of complex pressure vessels.

Infrastructure: Aggregate 6,96,020 sq ft fabrication space across five units.

Quality: All fabricated material is radiography-tested resulting in a first-time right culture.

Approval: All fabricated material is approved by the Indian Boiler Association.

Value chain: Integrated competence from designing equipment to fabrication.

Repertoire: Diverse mechanical capabilities (fabrication, machining, welding, blasting and painting).

Skills
of our
shopfloor
workers

=

LG welder
with X-Ray
welding quality
capabilities

Drillmen

Heat treatment
professionals

Grinders

Mechanical
fitter

Turners



Our product line

We have made forward-looking investments in equipment production.

Idlers and pulleys	Shell & tube heat exchanger	Underground conveyor gear box
Conveyor structures	Chutes	Tanks
Paddle feeder	Silo	Stacks
Tripper	Scrapers/Ploughs	Tar decanters
Gates (Rod, Slide, Rack)	Primary gas cooler	Ash handling equipment
Shuttle conveyors	Pressure vessel	Underground mining conveyors
Flap gate	Drive head	Stainless steel process column



Gear box



Bracket



Steam generator (kettle type)



Pulley



Feeder



Coal handling plant at BHEL, Udangudi, Tamil Nadu

Our marquee clients

We are proud to serve India's leading public and private enterprises, powering the nation's growth across energy, infrastructure, mining, and manufacturing.


POWER SECTOR


STEEL & METALS


CONTRACTORS & INFRASTRUCTURE


OIL, GAS, CHEMICAL & REFINERY


MINING, DEFENCE, SHIPPING, PAPER & PLYWOOD


TRANSMISSION

















































CONSULTANTS













INSPECTION AGENCIES







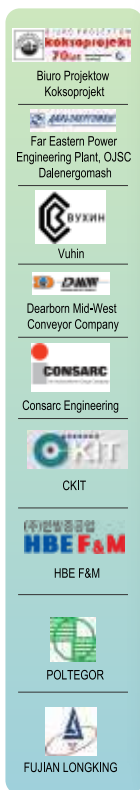




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Relations with global EPC companies



Poland

EXPERTISE: Design engineering & project management in coke making and related branches including environmental protection facilities



Russia

EXPERTISE: Manufacturing chemical plant equipment like compressors, blowers and other accessories



Russia

EXPERTISE: Eastern Scientific and Research Institute of Coal, Vuhin - They have over 70 years of experience in R&D and engineering of full production cycle of coke & chemical coking by-products.



USA

EXPERTISE: Complex material handling systems for various industries



USA

EXPERTISE: Design and fabrication of various advanced vacuum and controlled atmosphere furnaces for processing of metals, specialty alloys, and engineered materials



South Africa

EXPERTISE: Design support of pipe conveyors and high angle downhill conveyor systems



South Korea

EXPERTISE: Design, Engineering, Manufacturing, Testing, Commissioning of Hydraulic Press, Shell Forging Press, Ring Rolling Machine



Poland

EXPERTISE: Surface Mining & Stockyard Handling Equipments



China

EXPERTISE: Ash Handling System and largest manufacturer of air pollution protection

Our certifications





- **HEAD OFFICE:** Kolkata
- **ENGINEERING MANUFACTURING UNITS:**
Kolkata, Durgapur and Kharagpur
- **AGRO ASSEMBLY UNITS:**
Kolkata, Hyderabad, Cuttack, Faridabad, Guwahati, Trichy and Bangalore.
- **AGRO BRANCH OFFICE:**
Kolkata, Guwahati, Cuttack, Hyderabad, Faridabad, Bangalore, Patna, Sangli, Indore, Trichy, Durg, Lucknow, Chaibasa.
- **EPC PROJECTS AT VARIOUS LOCATION:**
Bangladesh, Udangudi, Ennore (TN), Talcher, Rourkela (OD), North Karanpura, Sindri, Kerandari (JH), Barauni (BR), Unchahar (UP), Yadadri (TS), Pakri, Bokaro (JH), Vizag (AP), Raigarh, Nagarnar, Lara (CG), Durgapur, Sagardighi, Haldia (WB)

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