jessop's



engineering procurement construction (epc) division

from being a pioneer to attaining engineering leadership

Cover Inside





Jessop,

a Company that has a track-record of over 200 years. Of being a pioneer in Engineering and Infrastructural projects. Having made rapid strides in the recent years, and drawing upon its core competencies in Engineering Design and Fabrication, expansion into Engineering Procurement Construction services has been a logical strategic move.

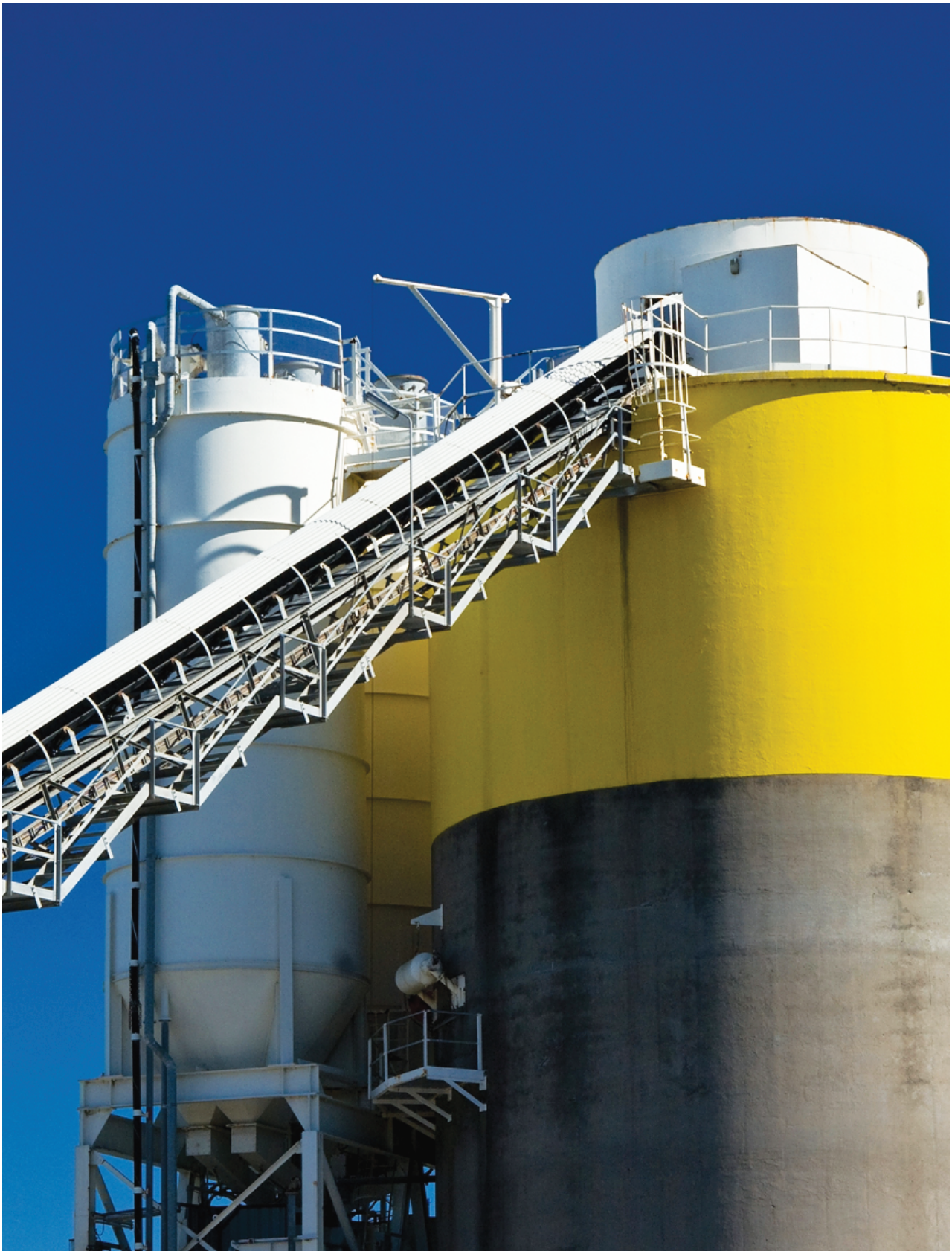
Jessop's EPC solutions encompass the entire range of services for execution of fertilizer, water management, petrochemical, refinery, electrolysis, metallurgical, pharmaceutical, power, infrastructure development and industrial projects.

The integrated activities which ensure quality, timeliness and excellent value to our customers:

Design | Mechanical fabrication | Electrical | Erection & Commissioning

epc

Instrumentation | Equipment installation | Civil construction



innovative engineering capabilites



Jessop has over the years developed expertise in addressing unique engineering challenges. Its one-of-a-kind manufacturing infrastructure combined with its long tradition of professional excellence has created innovative capabilities that are unparalleled in the industry.

size matters

Jessop's manufacturing infrastructure is spread over 67 acres at Dum Dum, near Netaji Subhas Chandra Bose International Airport, Kolkata.
Six divisions, each one a veritable engineering powerhouse, has been turning out products that enjoy national and international acclaim.





- Structural Works
- Mechanical Works
- Coach Works
- Road Roller Works
- Mining Works, including Integrated Test Facility (ITF)
- Hydraulic Works

All six workshops are self-contained units equipped with Metal Preparation; Metal Working, such as Straightening, Cold Sawing, Shearing, Optical and CNC Gas Cutting, Manual, Semi-Automatic and Automatic Welding of various types along with adequate material handling facility and floor space for marking layouts.

The Works are equipped with independent Quality Control Systems to ensure in-process quality assurance during manufacturing processes.

quality matters

QUALITY SYSTEM

Jessop's quality system conforms to ISO 9001:2000 and ISO 14001:1996 Environment Management Systems.

QUALITY CONTROL & QUALITY ASSURANCE

Jessop is committed to the pursuit of excellence through proper quality management systems for all of its product and services.

Quality aspects are carefully studied and rigid inspection from raw material to different stages of manufacture is carried out and reports are recorded, so that the same may be submitted to customers' representatives as and when demanded.











structural expertise matters

Jessop: The first name in fabrication

Jessop has pioneered and led the field in designing, fabricating and commissioning cranes, structures and mechanical equipment. From steel bridges to all types of gate structures, including Sluice and Crest Gates, Caisson Gates, Radial Gates and other Hydro-Mechanical Equipment. The product range of Structures and Gates bears testimony to the outstanding CSM capabilities at Jessop.

Fabrication of Steel Structures, Technological Structures involving Heavy Fabrication, Machining and Control Assembly for :

● Steel Bridges / Flyover ● Cable Stayed Bridge ● Building Structure ● Pot Shell Structure ● Buoy for Virtual Jetty upto 7m dia, weighing 45 Tonnes ● Blast Furnace Shell Structure, 12m dia, 50mm thickness ● Hydro-Mechanical Equipment (Water Control Gates) ● Vertical Sluice Gates ● Radial Gates ● High Head Gates ● Pen Stock Gates ● Mitre Gates ● Caisson Gate ● Stop Log Gates ● Gantry Crane for handling Stop Log Gates ● Other special types of Structures

export activities

The Company's export performance includes export of a varied range of products and services.

Product	Countries exported to
Railway Rolling Stocks	• Poland • Myanmar • Yugoslavia • Vietnam • East Africa • Uganda
Cranes	• Dubai • Malaysia • Sudan • Mozambique
Structural Steelwork	• Brazil • Bangladesh • Sudan • Iraq • Myanmar • Qatar • Malaysia
Hydro-Mechanical Equipment	• Malaysia
Road Roller	• Bangladesh • Bhutan • Nepal



collaborations

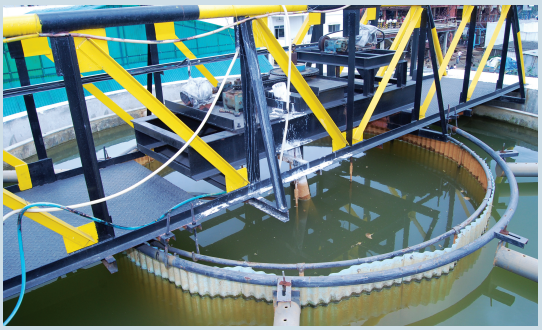
Some of the best names in the business have joined hands with Jessop

Area	Technology Partner
• Shipbuilding & Repairing	TEKHKOM, Ukraine
• Oil & Gas Processing Equipment / System	Mackenzie Hydrocarbons, Australia
• Combustion Engineering	BOUSTEAD GROUP, Singapore
• Water & Environmental Engineering	SALCOL, Singapore
• Power Generation & Distribution	BOUSTEAD GROUP, Singapore
• Port Development & Services	Antara Koh, Singapore
• Specialised Consultancy Services	Global Map Services, Singapore



the jessop epc approach

from concept to commissioning





From concept to commissioning, Jessop follows a Client- centric approach with strong commitments to cost and time schedules. The projects are executed by trained specialists with the company's trademark attention to detail and quality using state-of-the-art design tools and softwares. As a result, plants commissioned by Jessop stand out for their high yield, durability, energy efficiency and environment-friendly considerations.

Jessop's quality-certified systems and ability to implement mega-size as well as medium and small range projects concurrently backed by onsite execution capabilities are amongst the factors that distinguishes it as a flexible and versatile engineering contractor. Jessop offers turnkey solutions with guaranteed performance, fixed cost, timely execution and quality completion.

Jessop's repertoire of turnkey projects cover the prestigious Pellet Plant at Barbil, Orissa of Jindal Steel & Power Ltd. (JSPL) worth Rs. 10 Crores, which includes engineering, erection and commissioning activities of furnace oil system. SAIL's Research & Development Centre for Iron and Steel (RDCIS), Ranchi has awarded Jessop the contract to design, erect and commission the Edge Guide System to be installed at Bokaro Steel Plant, Jharkhand. Jessop's EPC Division has partnered with EMG of Germany to provide a unique solution to a difficult rewinding problem that has been causing huge production losses during an acid treatment process.

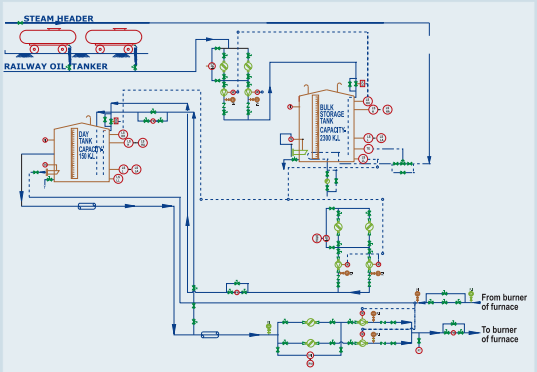
Jessop's EPC is also a part of the execution of Tata Group's Rs. 60 crore Tayo Rolls project, Jamshedpur. M/s. Sheffield (UK) is the technical consultant for setting up of the complete Forge Roll plant of Tayo Rolls Ltd. and Jessop is erecting the major mechanical and electrical equipments supplied by INDUCTOTHERM, Belgium a leading roll hardening machine manufacturer in the world.

Jessop ensures that all its manufactures and fabrications conform to the relevant quality standards and procedures. Its enormous in-house manufacturing infrastructure with all the required machinery combined with flexible on-site execution capabilities, anywhere within or outside the country, provides Jessop's EPC division with a critical edge over others, putting it in a league of its own.

Jessop's EPC Division offers a wide variety of solutions to Clients from various industries in areas like:

- Water treatment plants
- Industrial waste water treatment
- Industrial waste water recycling & reuse
- Water intakes & wells
- Pumping & storage
- Distribution systems

The manufacturing infrastructure, engineering expertise and systems are perfectly complemented by people – the organisation's biggest assets. A contingent of over 1,000 qualified employees–an eclectic mix of engineers with deep experience as well as fresh, young graduate engineers are dedicated to making a difference to the projects the division executes.



Fuel Oil Handling System





the technology edge

The Jessop EPC Division's IT backbone supports the entire life cycle of our Client's projects with robust tools for the concept development, design, procurement, and construction stages – as well as tools for project operations, decommissioning, and disposal.

The latest computer-aided design and engineering (CAD / CAE) systems complement the company's technical and financial expertise in engineering and project execution. Timely, relevant and accurate information is critical in any EPC activity. Accordingly the IT infrastructure that has been set up facilitates this.

Dedicated engineers relentlessly upgrade the systems and networks to meet the varied demands of our projects, resulting in effective control of time and cost.



the jessop legacy

Jessop was formed in 1788 by the sons of William Jessop, an eminent British engineer.

Thus began a legacy of brilliant engineering that continues even to this day, growing from strength to strength.

For two centuries, Jessop has changed with the times. Today the process of adaptation continues. Defying all odds, Jessop has been restructured from a Public Sector Undertaking into a Private Sector Enterprise. Under the dynamic management of Mr Pawan K Ruia, the Company is ready to take on the future.

the heritage

From the first iron bridge over the Gomti in 1815, to the state-of-the-art cable stayed bridge over the river Hooghly, a hundred and seventy five years later, it has been two centuries of innovative engineering, of finding solutions, of pioneering technology.

The coming era is opening up new vistas for Jessop. New challenges that will create new opportunities.

Every time the Company takes on a new project, it believes that it is working not with metal, but with the lives of millions of people.

The chain of trust was held for more than two hundred years.

And it will continue.









a history of firsts

1815 First iron bridge in India – 'Loha ka Pool' over the river Gomti

1819 First steam boat to sail on Indian waters

1822 First steam pumping machinery

1890 First road roller

1901 First locomotive steam crane

First hydraulic steam crane

1943 India's first cantilever bridge, Howrah Bridge – the largest and earliest of its kind in the world

1959 First EMU coach for Indian Railways

1976 First caisson gate for Haldia Dock Project

1983 First container quay crane for Madras Port

1991 First cable stayed bridge – the Vidyasagar Setu

2003 First heavy engineering PSU to be disinvested

2004 First virtual jetty for Kolkata Port Trust

Cover Back



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