Bulk Material Handling Systems
Custom-engineered solutions from concept to commissioning

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Larsen & Toubro Limited (L&T) is India’s largest technology, engineering, manufacturing and construction organization with a track record of over 70 years. L&T is also adjudged India’s best managed and most respected company on various attributes of customer delight and shareholder value.

ECC – the Engineering Construction and Contracts Division of L&T is India’s largest construction organization. It figures among the World’s Top Contractors and ranks 35th in global ranking as per the survey conducted by the reputed international construction magazine Engineering News Record, USA (August 2009).

ECC’s cutting edge capabilities cover every discipline of construction - civil, mechanical, electrical and instrumentation engineering and our services extend to all types of industrial and infrastructure projects.

### Bulk Material Handling

ECC’s Bulk Material Handling Business Unit (ISO 9001 accredited) serves as one stop shop for all Bulk Material Handling solutions. The Business Unit is equipped with the requisite expertise and wide-ranging experience to undertake Engineering Procurement and Construction (EPC) projects with single source responsibility and build comprehensive material handling systems across various sectors in Power, Port, Steel and Mining industries. L&T’s capabilities in this sphere encompass the entire gamut of material handling business needs which includes:

- System design and engineering
- Civil and structural construction
- Spares and after sales service
- Manufacture, procurement and supply
- Erection, testing, commissioning and performance test
- Operation and maintenance

### Unmatched Design Capability

L&T has unmatched design capabilities for manufacturing and supply of critical equipment like the stacker reclaimers and other stockyard machines; wagon tipplers, marshalling equipment; paddle feeders and crushers. Technical tie-ups with leading global technology suppliers enable L&T to provide the complete end-to-end solutions for critical applications.

### Engineering Design & Research Centre

ECC’s design arm – the Engineering Design & Research Centres (EDRC), located in Chennai and Kolkata with its multi-disciplinary team of engineers, sophisticated software and hardware facilities caters to customers and provides clients with exceptional design and engineering solutions meeting every industry norms. These include:

- Project conceptualization and system engineering
- Basic and detail engineering of all disciplines
- Geo-technical designs
- Construction methods and process engineering
Manufacturing and Fabrication facilities

The Bulk Material Handling Business Unit of L&T is incorporated with high-end manufacturing and fabrication facilities at Kansbahal (Orissa) and Kanchipuram (Tamil Nadu).

The products manufactured and supplied from L&T Kansbahal Works include:
- Ring Granulators
- Wagon Tipplers and Side Arm Chargers
- Rotary Breakers

L&T Kanchipuram Works caters to the manufacture of:
- Stacker Reclaimers
- Paddle Feeders
- Spreaders
- Mobile Transfer Conveyors
- Travelling Trippers
- Conveyor Pulleys
- Gates, Building Structures, Chutes, etc.

In addition, critical equipment like Hydraulic Systems, Apron Feeders, Motor Control Centres and PLCs are manufactured and supplied from other specialized units of L&T in Bengaluru & Powai.

L&T is the only company in India equipped with wide ranging capabilities and manufacturing facilities to design, engineer, manufacture and supply every type of material handling equipment to meet every kind of challenge ensuring highest quality of deliverables. Covering a land area of 68 acres with a covered fabrication shop of over 7200 sqm, the Kanchipuram unit is well equipped with 50 t capacity material handling equipment / 10 t and 20 t capacity gantry cranes / mobile cranes to handle weights up to 100 t / stand by generators.

L&T's only foundry facility is located at Kansbahal and is equipped with the latest state-of-the-art facilities to manufacture quality castings in steel, alloy iron, SG/ cast iron with intricate geometries and large tonnages. It covers an area of 11,500 sq.m.

Stockyard Machines

L&T has the expertise to design, manufacture, erect and commission Stockyard machines like Reversible and Unidirectional Stacker Reclaimers, Stackers, Reclaimers, Twin Boom Stackers, Barrel Reclaimers, Bridge Reclaimers.

L&T has installed more than 80 machines ranging from 750 tph to 4000 tph to handle different materials like coal, iron ore, base mix.

L&T’s expertise also includes design and build electro-mechanical and hydraulic drives for bucket wheel, slew, boom conveyors etc.

Customer profile covers industries from Public Sector Undertaking to Private Sector Companies:
- Power - NTPC, Jindal Power, State Boards, BHEL
- Steel – TISCO, SAIL, Jindal, Bhusan, Neelachal Ispat,
- Port – Paradip, ISHPL, Dhamra Port, Vizag Port
- Cement – Grasim, erstwhile L&T Cement
L&T designs and manufactures different type of custom built conveyors for innumerable material handling applications with economical budget ranges.

For projects that demand cost-effective transportation of bulk material, L&T offers proven custom-built solutions for carrying bulk cargo ranging from 5mtpa to a distance of up to 30km. The overland specialty conveyors are ideally suited for long distance applications where vertical and horizontal curves are required.

L&T has the specialized experience and skill to design and build long distance conveyors under tough geographical and topographical conditions, negotiating several high and low radius curves. In addition, it can significantly reduce the cost of civil/structural works including installation charges with its comprehensive engineering expertise and unmatched construction excellence.

L&T introduced this new technology successfully in India, when it executed the 17km long overland belt conveyor for Lafarge to carry lime stone from Meghalaya to Bangladesh. Considering the terrain, involvement of horizontal and vertical curves, international jurisdictions and the logistics, this project is one of its kind in the world.

The modern mega/ultra mega and super critical thermal power plants demand handling of coal in excess of 4000tph. L&T provides cost effective solutions for meeting the transportation of coal in large quantities for such power plants without any difficulty through overland belt conveyor system.

The over land belt conveyor highly reliable, involving very minimum social / environmental impact and it is an economic choice considering the life cycle cost and power consumed.

For long-distance material handling, L&T offers cable belt conveyor system that is highly reliable. This is the most proven means of transport over most rugged and arduous terrain. The conveyor is well suited for use as a slope belt, overland conveyor or downhill system.

L&T offers pipe conveyors as the ideal solution when overland haulage or in-plant conveying is met with space constraint, tight vertical or horizontal curve requirements, or the need arises for protection against weather-related and environmental issues.
In 1999, L&T designed, manufactured, erected and commissioned the first ever Mining Equipment contract for Neyveli Lignite Corporation for handling lignite and conditioned ash. Since then, it has designed, manufactured, supplied and commissioned:

- 9 Mobile Transfer Conveyors
- 3 Spreaders
- 4 Bucket Wheel Excavators

Mining Equipment

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Project Management Capabilities

L&T has an impressive track-record in Bulk Material Handling projects with substantial experience in providing solutions to the key EPC contractors for world-scale projects across the globe. Latest project management techniques with fully computerized project procurement systems and historical data base helps in translating the plan into drawings and schemes into reality, moving on schedule, achieving savings in cost for the customer.

Operation and Maintenance

L&T also carries out operation and maintenance activities of projects executed, offering a systematic and comprehensive assessment of plant operations and maintenance processes including review of system data and critical equipment condition data for improving plant operations with the help of a rich talent pool of service engineers.

Committed to the Future

L&T’s strategic plan is aligned with the growth plans of the country and focuses on Power, Ports, Mines and Steel sectors. It is fully committed to nation building and meeting the specific requirements of its customers.

Port Equipment

L&T’s in-house expertise and knowledge of installing Port Handling Equipment from concept to commissioning extends from design, engineering to manufacturing and supply of conveying system, ship unloading and loading equipment, wagon loading system, management information system and complete electrical, instrumentation, civil and structural works.

The first Private Port in India was designed, constructed and commissioned by L&T on BOOT basis and currently we are setting up the largest Port facility in the country on the eastern coast. This 13 berth port is designed to handle 83 million tonnes of dry bulk, liquid bulk, break bulk and containerised cargo.

Material handling system at Vizag Port

Wagon loader at Vizag Port

Wagon loader at International Seaports, Haldia

Mobile hopper installed at Vizag Port

Ship unloader at International Seaports, Haldia

Wagon loader at International Seaports, Haldia

Material handling system at Vizag Port