



Material Ropeways



At a Glance

CRSPL is the pioneering Engineering company at the forefront of the Ropeway Industry in India in the field of Aerial Ropeways. Founded in the year 1975, CRSPL has over 5 decades of experience. At CRSPL we conceptualize, manufacture, and execute turnkey projects in Ropeways which provides an end-to-end service all under one roof.

CRSPL has successfully executed the largest number of Ropeways in India for both Private & Public Sectors, having the largest market share in India.

CRSPL has installed and developed various ropeways projects through DBFOT/PPP and has technical expertise in undertaking O&M of ropeways since mid 90's.

CRSPL has international exposure having executed many overseas contracts in the subcontinent including Indonesia, Taiwan, Bhutan, Nepal, Bangladesh & Pakistan. We have also exported our designs to the United States and the United Kingdom.

CRSPL has its corporate office at Kolkata, West Bengal, with a full-fledged design Team, a well-equipped manufacturing Unit, and an extensive R&D wing. We also have 8 branch offices across India and 3 Overseas Contact offices.

CRSPL has also successfully taken up the development of the World's first Non-Linear for a 2nd Tier Alternative Urban Commutation, named CURVO.

Our Clients





Material Ropeways

Material Handling Ropeways redefine industrial logistics, introducing a seamless, efficient, and innovative approach to the movement of goods. These aerial conveyors transcend traditional methods, offering a myriad of advantages.

A. Swift and Uninterrupted Flow: From mines to construction sites, material handling ropeways ensure a continuous flow of goods, eliminating bottlenecks and optimizing supply chain processes.

B. Precision in Heavy Loads: Where ground transportation faces limitations, ropeways excel. Handling heavy and bulky loads with ease, they streamline the movement of raw materials, reducing manual labour and enhancing safety.

C. Remote Accessibility: Material handling ropeways effortlessly traverse challenging terrains, connecting remote locations that would otherwise be inaccessible.

D. Sustainability in Action: With low energy consumption and minimal environmental impact, material handling ropeways represent an eco-friendly alternative.

E. Cost-Effective Solutions: Material handling ropeways offer cost-effective solutions for industries seeking efficiency without compromising on safety. They optimize resources, reduce operational costs, and ensure a rapid return on investment.

F. Reduced Pollution: A material ropeway minimizes dust pollution at construction sites by operating above the surface, enclosing transported materials, avoiding unpaved roads, reducing vehicular traffic, and providing efficient, controlled, and environmentally friendly point-to-point transportation.



Types of Systems



Conventional Grip Monocable Ropeway System

Features:

- Simple Operation
- Less Expensive
- For Even Terrain

Advantages:

- Simple System
- Low Operation and Maintenance Cost
- Low Investment
- Capacity can be easily augmented to the design limit with the increase in demand.

Capacity:

- Maximum 350 TPH for short distance

Detachable Grip Monocable Ropeway System

Advantages:

- High Transport Capacity
- Adjusting speed and number of buckets as per demand
- Low ground clearance not required. Hence less number of towers and tower mechanicals.
- Moderately high speeds are possible.

Capacity:

- Maximum 350 TPH for short distance



Detachable Grip Bicable Ropeway System

Advantages:

- Simple System
- Low Operation and Maintenance Cost
- Low ground clearance not required

Capacity:

- Maximum 750 TPH for short distance

Projects

Renusagar, Uttar Pradesh

This was one of the projects where the Indigenous Monocable Detachable Grip system was used for the first time.

-  Client : Hindalco Industries Limited, Renupower
-  System : Bicable Ropeway
-  Length : 2500 mt
-  Level Difference : 3 mt
-  Capacity : 350 TPH



Lohardaga, Jharkhand

CRS has successfully completed the material ropeway of 10 Km for transportation of bauxite.

-  Client : Hindalco Industries Limited, Mines Division
-  System : Bicable Ropeway
-  Length : 9.8 Km
-  Level Difference : 0.37 Km
-  Capacity : 150 TPH

Narsingarh, Damoh

CRS has done the design, supply of critical items, supervision and commissioning of a ropeway associated with a Material Handling Plant.

-  Client : Diamond Cements
-  System : Monocable Ropeway
-  Length : 3.2 Km
-  Capacity : 300 TPH



Gharibwal, Pakistan

CRS was involved in the capacity upgradation of a material ropeway from 230 TPH to 650 TPH along with the supply of 6 nos. 650 TPH capacity Belt Conveyors of total length of 750 mt at Gharibwal Cement Plant.

-  Client : Gharibwal Cement Plant
-  System : Monocable Ropeway
-  Length : 750 mt
-  Capacity : 650 TPH

LIST OF PROJECTS

Year	Project	Capacity	Type
1971	Indian Ropeway Engineering Company, Dhanbad	75 TPH	5 Km long Monocable Ropeway
1973	Indian Ropeway Engineering Company, Dhanbad	200 TPH	1.2 Km long Bicable Ropeway
1977	Damodar Ropeways & Construction Co. (DRCC)	550 TPH	10 Km long Bicable Ropeway
1981	Thermal Power Station for MSEB	450 TPH	13.5 Km long Bicable Ropeway
1982	Macherla Cement Factory of KCP Ltd.	150 TPH	5.5 Km long Monocable Ropeway
1982	PWD Irrigation, Madhya Pradesh	-	Cableway for gauging river flow across Sondur
1984	Cement Plant site for Malabar Cements. Ltd.	200 TPH	6.3 Km long Monocable Ropeway
1984	Pipla Colliery for MSEB	100 TPH	4.0 Km long Monocable Ropeway
1988	Renusagar Power Co. Ltd (RPCL)	300 TPH	Bicable Ropeway
1989	Renusagar Power Co. Ltd (RPCL)	300 TPH	7.8 Km long Monocable Ropeway
1989	Bharat Coking Coal Ltd.	200 TPH	Refurbishing of existing Tramcar Ropeway
1996	Diamond Cements	300 TPH	3.2 Km Long Monocable Ropeway
1996	Indian Aluminium Co. (INDALCO)	60 TPH	Automation of existing ropeway
1997	Eastern Coalfields Ltd. (ECL)	-	Revamping of an Angle station at J.K. Ropeways
1998	Eastern Coalfields Ltd. (ECL)	-	Revamping of a Monocable Ropeway
1999	INDALCO	-	Mechanization of Ropeway Unloading Station
2008	Gharibwal Cement Plant, Pakistan Material Feed and Reclaim	650 TPH	750 mt long Ropeway
2016	Arrangement for existing ropeway at Lohardaga, Jharkhand	150 TPH	Capacity augmentation of Ropeway from 41.64 TPH to 150 TPH



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