

# CONVEYOR AND ROPEWAY SERVICES PVT. LTD.





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#### **CRSPL**

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.

#### **MISSION**

Our mission is to evolve new technology for safe alternative means of aerial transportation, enhancement in its quality of service, value addition in various other fields of engineering production and conditioned by local standards and culture.

#### **VISION**

Our goal is to uphold our company's heritage by becoming the leading ropeway manufacturer in the nation, prioritizing customer preference, involving employees in decision-making, and maintaining our reputation for excellence.









#### **OUR SERVICES**

We have the best in the business of ropeway and conveyor services,

- 1. Passenger Ropeway
- 2. Material Handling Ropeway
- 3. Curvo Urban Transportation
- 4. Coal Washing









#### **OUR CLIENTS**

Our clientele encompasses a diverse spectrum - from government initiatives enhancing public transportation to private ventures elevating tourism experiences. These partnerships have not only shaped the skyline but have also woven a tapestry of success stories that stand as a testament to our commitment to quality and innovation.























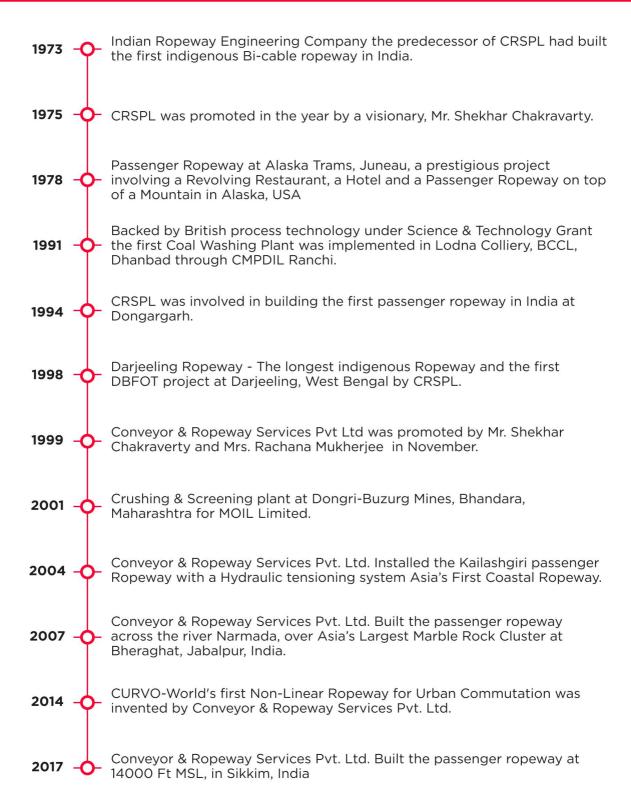




130+ Projects 50+ Years 70+ Clients

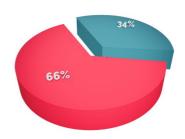


#### **OUR MILESTONES**



### **OUR ACHIEVEMENTS**

- We have developed the world's first non-linear ropeway for urban transportation and we have the international patent on it.
- We have a patent on a unique detachable grip which combines spring-cum-gravity application.
- We claim the largest market share in the industry having built the highest number of Passenger Ropeways in India.



CRS occupies majority of the market share with over 66%.

# **Curvo Ropeways** can be installed



in all congested cities of the world

Conveyor & Ropeways Services Pvt Ltd (CRSPL) was born in the year 1975 with a vision to provide a safe alternative transport. The company started its activity as a consultancy and has today emerged as a forerunner in the field of aerial ropeways. CRSPL has installed ropeways all over India and in neighbouring countries SHEKHAR CHAKRAVARTY, FOUNDER & MANAGING DIRECTOR, CONVEYOR & ROPEWAY SERVICES PVT LTD responded to SHRIKANT RAO's queries



existing sood scates, travelling overhood without consuming or interlering with the road space below and the redicular trattle that place under it. It is easies, pollution tree, both in teresa of estimation and roles, it runs on electricity and does not use organic lock, thereby permitting the government to cut down on fuel import and subsidy expendituse. Further, herving on automated drive system instead of smultiple human controls, it is accident proof.

Tell us more of the need for installing such a system in our cities? Communes trevelling in Indian cities how to face many hurdles. They inhale toxic gases from vehicular emissions, drive 2 or 4 wheelers in chootic treditic consistence, hung out of buses, get sandwiched in metro comportations, hung out of buses, get sandwiched in metro comportations, hung out of house, get sandwiched in metro comportations, pentle and sude ride every day to office and other destinations and back over crowrided city roads is a dream of every commune. Proceeding outswhickes constitute the main transportation force and it requires considerable growth in infrastypciuse like mode and flyovers to commune the growth states the last decade with less than 7 per cent of effective road space leading to high cultivational diseases, congestion, accidents and effect on air quality. The proposed installation will generate a 2nd fast alternative contail transportation system along the existing road route segritistic mainly by pediatrian and white-ular traffic. Being electrically driven, and this being fully pollution free it will

#### Ropeway transport may soon be a reality in Kolkata

scolata, september 7 Commuters in Kolkata may soon travel on a non-linear ropeway — that has the poten-tial to swing its way through the city's skyline dotted with high-rises — the makers, who tout it is the world's first of its kind, said after launching a prototyne.

prototype.

The private firm which has The private firm which has developed and patented this new pollution-free aerial transit — christened Curvo rope-way — is in talks with the West Bengal government to launch the service in two regions of the capital.

Test run of the prototype, with two cabins, was conductive to the capital of the prototype, with two cabins, was conductive to the prototype of th

with two cabins, was conduct-ed within a stretch of 500 metres at a spot in Kolkata's Joka area on Saturday. "It is the world's first non-linear ropeway for alternative urban

transportation. There are two transportation. There are two proposals which we are dis-cussing with the State Govern-ment, regarding launching the service in Sealdah-BBD Bag area and the other from Nabanna, the state secretar-iat," said Rachana Mukherjee, Director, Conveyor and Rope. Director, Conveyor and Rope-

Director, Conveyor and Ropeway Services Pvt Ltd.
"In addition, we are applying for certification to open the prototype for the public," she said Saturday.

The ropeway service, to be run on electricity, will breeze over existing arterial and other roads on steel portal frames spaced at 90-100 metres supporting the ropes, avoiding the congestion on the streets below.

the streets below. On any designated route, there will be elevated stops for de-boarding and boarding of the passengers every 750 m.

#### Zuruck zu geschraubten Stahlrollen?



BUSINESS STANDARD SATURDAY 30 JULY 1983

# **MATERIAL H**

The aerial al



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transport vial ray ematerials for the core sectors-one for Steel, and the core sectors-one for Steel and the core sectors of the core sectors of the core sectors of the core sectors of the coulty installation being there, other means of transport of sand from river beef as both Jharia and Raingan Goaffields are relied to the coulty installation in the confidence of these installations in the confidence of the country of the confidence of the country of the confidence of the country of the c contril system negligi been many In

S. CHAKRAVARTY

#### Ropeway answer to transport ills in Kolkata?





#### **OUR FOUNDER**



#### **Mr. Shekhar Chakravarty** Chairman

Mr. Shekhar Chakravarty is the Managing Directors of Conveyor & Ropeway Services Pvt Ltd (CRSPL) and Curvo Ropeways India Pvt Ltd (CRIPL), as also Chairman of Breco Ropeways Ltd, UK., a pioneering engineering company of yesteryears in the field of Aerial Ropeway for transportation of men and material.

After nationalization of Coal Industry in 1969, he was offered by Coal Secretary, Govt of India, the position of Chief Engineer of Coal Board, and take charge of the Plants.

In 1980's, he introduced the first Modular Coal Washing Plant in India, under Science & Technology Grant, Department of Coal. Also embarked in plastic Dehumidification and built Dehumidifiers for various Users.

Shekhar as a member of International Organization For Transportation By Rope (OITAF), Rome, made several Presentations during their global conferences all over the world. Over the last decades, Shekhar worked mainly for development of urban commutation and innovated Non-Linear feature in Ropeway, and his innovation received Grant of Patents from all 36 European countries, China and India, for implementation of Clean & Green Transport for safety, and benefits of common urban commuters.

He is an FIE (India) and FIMechE (UK). He volunteered for years, for IMechE, and reigned in the Chair of Southern Asia Region (SAR), one of the 7 Regions of world of IMechE, for 3 years.



#### THE FOUR PILLARS

At CRSPL, our team stands as the cornerstone of our success – a collective force of expertise honed over five decades. Anchored by seasoned professionals, each possessing a wealth of knowledge in ropeway engineering, project management, and innovation, we bring unparalleled proficiency to every endeavour.

From visionary engineers to meticulous project managers, our team is not just experienced; they are pioneers, having contributed to over 130 projects across diverse terrains. With a comprehensive skill set that spans design, construction, and maintenance, CRSPL professionals are the architects of seamless ropeway solutions.

In an industry where precision is paramount, our team's dedication to excellence shines through. Every member, driven by a passion for ropeway innovation, collaborates seamlessly to elevate landscapes, connect communities, and deliver ropeway solutions that transcend expectations.















#### **OUR CORPORATE OFFICE**

Located in Kolkata, India our corporate office serves as the central hub of our operations.

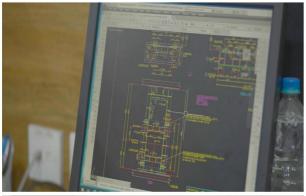
Designed with both functionality and aesthetics in mind, our office space offers a modern and inviting environment for our employees and visitors alike.

Our office features state-of-the-art technical facilities and amenities to ensure a productive and comfortable work environment. We have 7 offices all over India, 3 overseas contact offices, 2 well equipped manufacturing units and an extensive R&D wing.

In addition to providing a top-notch working environment, our corporate office reflects our company's culture and values.

#### **OUR EXPERTISE**

At the heart of our ropeway firm lie four pillars, each meticulously crafted to uphold a legacy of excellence.



1. Design Brilliance: From conceptualization to intricate blueprints, our design team envisions ropeway solutions that seamlessly blend functionality with aesthetic finesse.



2. Precision Manufacturing: In the manufacturing realm, our commitment to precision is unwavering. The manufacturing pillar transforms designs into reality, crafting every component with meticulous attention to detail and the highest quality standards.



3. Stringent Quality Control: Quality is our commitment to excellence. Rigorous inspections and stringent checks ensure that every ropeway system that bears our name adheres to the highest standards, guaranteeing safety and reliability.



4. Seamless Construction: Whether navigating urban landscapes or conquering challenging terrains, our experienced construction team ensures that every ropeway project is executed with precision, on time, and with a focus on durability.

#### **TECHNICAL - EXPERTISE**

In the intricate realm of ropeway design, our technical team stands as the bedrock of precision and ingenuity. Comprising seasoned engineers, architects, and meticulous draftsmen, they bring a wealth of expertise to craft the most detailed drawings and ensure impeccable project outcomes.

#### Why Our Technical Team Excels:

- **A. Attention to Detail:** Every project begins with a microscopic focus on detail. Our technical maestros delve into the intricacies, leaving no stone unturned in creating exhaustive drawings that lay the groundwork for flawless execution.
- **B. Engineering Prowess:** Armed with a profound understanding of ropeway dynamics and cutting-edge engineering principles, our team transforms concepts into comprehensive plans. Their prowess lies not just in design but in the seamless integration of functionality and safety.
- **C. Precision in Drafting:** Our draftsmen are virtuosos of precision. With an unwavering commitment to accuracy, they translate visions into meticulous drawings, ensuring that every nut, bolt, and cable finds its rightful place in the architectural blueprint.

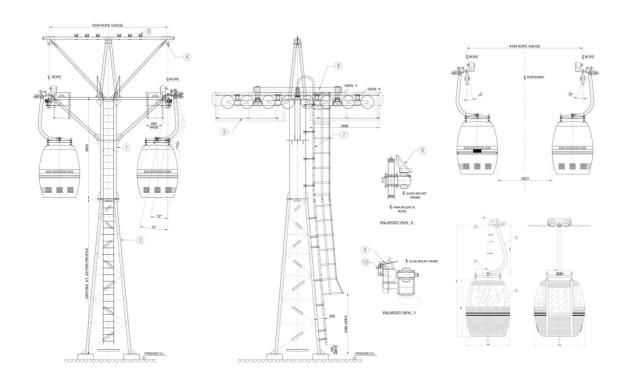
**D. Project Outcomes with Finesse:** Beyond the drawing board, our technical team oversees project execution with finesse. Their keen oversight ensures that the actualization aligns seamlessly with the envisioned design, delivering outcomes that exceed expectations.

#### E. Innovation in Problem-Solving:

Challenges are met with innovation. Our technical team thrives on solving complex puzzles, navigating unforeseen obstacles with ingenuity, and ensuring that projects progress seamlessly toward successful completion.

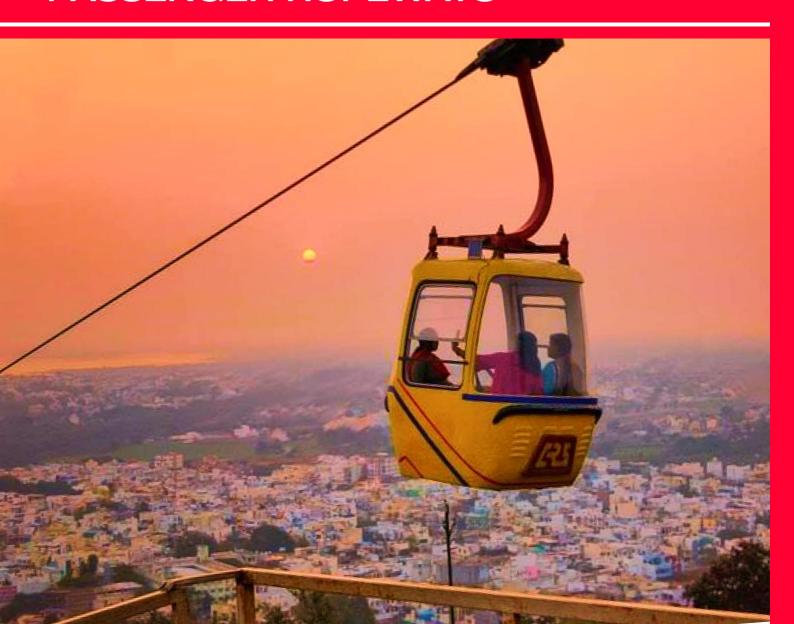
#### F. ONM----

In the hands of our technical virtuosos, precision isn't just a requirement; it's an art form. They are the architects of excellence, crafting detailed blueprints that set the stage for ropeway projects that transcend expectations.





# **PASSENGER ROPEWAYS**





#### **ABOUT PASSENGER ROPEWAYS**

Transport systems to be user-friendly, should be easily accessible, well connected, cost effective and sustainable.

- **A. Urban Connectivity:** In bustling cities, ropeways alleviate traffic congestion, providing swift and efficient transport over challenging terrains.
- **B. Tourism Upliftment:** In scenic landscapes, ropeways unveil vistas that ground transportation cannot reach.
- **C. Remote Area Connectivity:** Ropeways extend accessibility to remote areas, connecting communities to vital services, making education, healthcare, and employment opportunities within reach for previously isolated regions.

- **D. Religious Transport:** Ropeways provide a safe and convenient mode of transportation for high altitude religious places.
- **H. Hilly Area Connectivity:** Extremely adaptable to rugged terrain, ropeways represent an optimal transport solution for challenging topographical landscapes.
- **D. Eco-Friendly Solutions:** Ropeways minimize environmental impact, with low carbon footprints and minimal land use.

#### TYPES OF PASSENGER ROPEWAYS

Passenger Ropeways are of the following types.

- 1. Monocable Detachable Gondola System
- 2. Bicable Detachable Gondola System
- 3. Tricable Detachable Gondola System
- 4. Aerial Tramway System
- 5. Jigback Monocable System
- 6. Funitel / Double Rope Monocable System
- 7. Pulsed Gondola System
- 8. Chair Lift System
- 9. Monocable Non-Linear System CURVO



# A. MONOCABLE DETACHABLE GONDOLA (MDG) SYSTEM

MDG is a type of aerial ropeway in which the cabin is suspended from a moving cable that is strung between two terminals, over intermediate supporting towers. The rope is driven by a bull-wheel in the terminal, which is connected to an electric motor. Gondolas have small cabins, set at regularly-spaced close intervals.

Cabin capacity of MDG systems varies from 4 to 15 persons per cabin and system capacity can be as much as 3,600 pphpd (persons per hour per direction). Table below provides a summary of the service and technology characteristics of MDG systems

# C. TRICABLE DETACHABLE GONDOLA (TDG) SYSTEM

TDG systems combine features of both Gondola and Reversible Ropeway systems (i.e. separate ropes serve the two functions: stationary support ropes or "track cables" and a moving "haul rope"), and detachable gondolas. TDG systems have two stationary cables that support the cabins instead of one as in BDG systems.

Although TDG systems are more expensive than both MDG and BDG systems, this added cost is more than offset by their advantages, as these detachable circulating ropeways can carry more passengers with higher speeds. Other advantages of TDG systems include their outstanding wind stability, low power consumption and the use of very long spans of up to 1,000 m.

# B. BICABLE DETACHABLE GONDOLA (BDG) SYSTEM

MDG is a type of aerial ropeway in which the cabin is suspended from a moving cable that is strung between two terminals, over intermediate supporting towers. The rope is driven by a bull-wheel in the terminal, which is connected to an electric motor. Gondolas have small cabins, set at regularly-spaced close intervals.

The difference between a BDG and an MDG system is that, unlike MDG systems, which are both propelled and suspended by the same cable, BDG systems have two separate cables for two functions, one for supporting and the other for hauling.

#### D. AERIAL TRAMWAY (AT) SYSTEM

An Aerial Tramway (also called Reversible Ropeway or Jig-back Ropeway) is a type of aerial lift in which two passenger cabins (vehicles) are suspended from one or more fixed cables (called "track cables") and are pulled by another cable (called a "haulage rope").

The fixed cables provide the support for the cabins, while the haulage rope, through a grip, is solidly connected to the truck (the wheelset that rolls on the track cables).

#### E. JIGBACK MONOCABLE SYSTEM

System is similar to Bicable Jigback but the difference is one endless haulage rope serves the dual purpose of carrying as well as hauling the cabin.

Two Cabins are firmly attached to the rope, one at each terminal station but in opposite direction. On driving, while the No. 1 shall proceed to the other station, No. 2 at the opposite end shall progress to the former station. Upon arrival at respective station, drive is reversed and the cabins change places.

# F. FUNITEL / DOUBLE ROPE MONOCABLE (DMC) SYSTEM

Funitel is a detachable grip system that utilizes dual grips with a single, dual loop cable providing both support and propulsion. Given this system configuration, it is sometimes referred to as a dual loop mono-cable.

The funitel system are characterized as continuously circulating system withcabins that circulate around two end terminals. It offers line speedandwind stability similar to 3S systems but with shorter tower spans and smaller cabin capacities

#### G. PULSED GONDOLA (PG) SYSTEM

Pulsed gondolas are fixed-grip ART systems with cabins grouped together in "pulses" rather than being spaced evenly along the cable. The entire line slows down or stops completely in stations to allow passengers to embark and disembark.

While popular in the mid to end of the last century, their limited capacity and operational inflexibility makes them rare in the urban transport.

#### H. CHAIR LIFT (CL) SYSTEM

This system is widely used in hilly areas. In the winter resorts, all over the world, one can find a number of them. Their capacity range between 50 to 1200 passengers per hour. It is a monocable continuously circulating system.

The rope loop strung between two end terminals and usually over intermediate towers, carrying a series of <u>chairs</u> clamped to the moving rope and spaced at a preset interval.

2 seater Chairs are most common in the Ski Industry, but 4, 6 or 8 passengers chair have also come in use, the later mostly have detachable grip.





#### I. MONOCABLE NON-LINEAR SYSTEM (CURVO)

This is the latest system developed on nonlinear, unique and first time in the world.

Running over existing arterial roads, on steel portal frames spaced at 90-100 mtrs for rope supports. None of mighty concrete structures as for Metro and Flyovers. Free city air space, Eco- friendly and installation cost effective.

#### **Advantages**

- Easy & quick installation
- · Pollution, Accident, Noise free
- · Comfortable Ride
- Can negotiate angular deviation
- Flexible public transport capacities
- Can transport up to 2500 PPH per line.

#### Disadvantages

- · High capital investment.
- High operation and maintenance cost.
- Sophisticated system requires very skilled personnel for Operation and Maintenance.





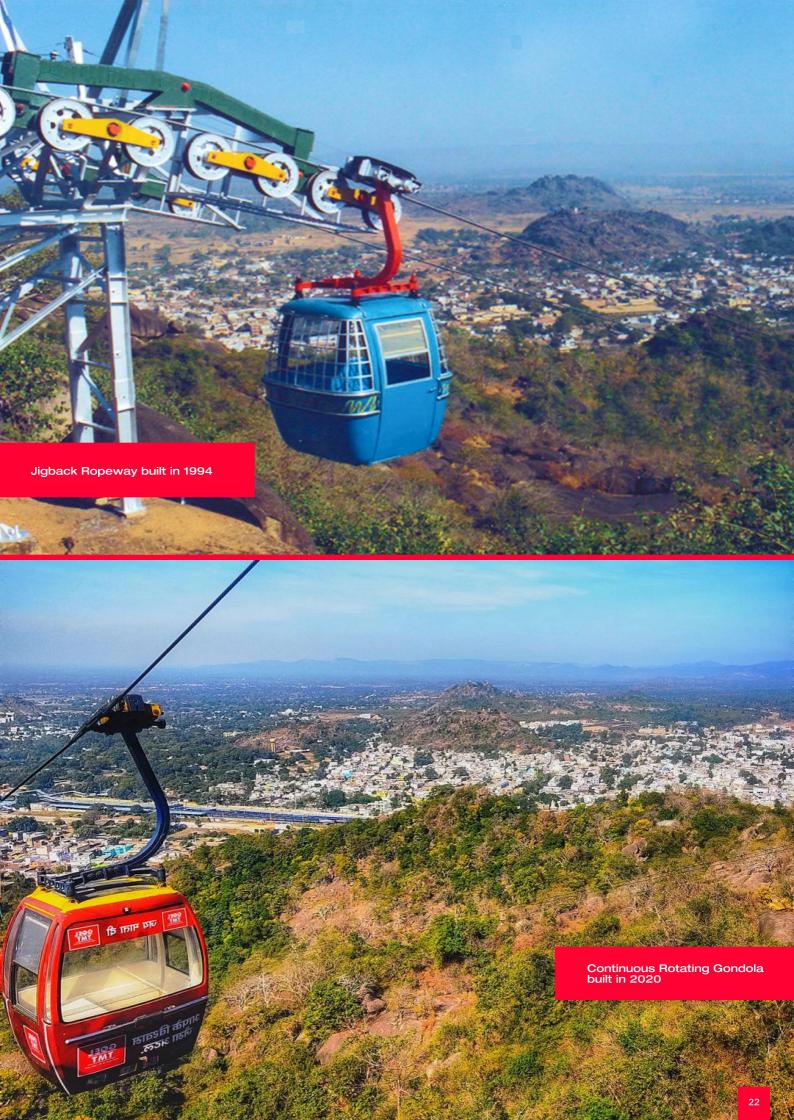


### RAJGIR, BIHAR

The Rajgir ropeway line is a wonderful excursion in the cradle of nature. It is the only ropeway in existence in the state of Bihar. The Gondola Ropeway is a thrilling adventure that leads you all the way to the top of the scenic Ratnagiri Hill which houses the famous Vishwa Shanti Stupa, also known as the Peace Pagoda.

The ropeway gives access to the Buddhist memorabilia and constructions of a bygone era on the hilltop, coupled with picturesque views.

- Client Bihar State Tourism Development Corp.
- Commissioned on : March, 2020
- System : Monocable Continuously Circulating Gondola
- ്റ്റ് Capacity : 800 PPH
- Length: 525 mt
- Level Difference : 180.5 mt
- Number of Cabins : 20
- & Cabin Capacity: 8 Passengers





### DONGARGARH, CHHATTISGARH

The ropeway is established to help devotees reach Maa Bamleshwari Temple. The temple is situated on a hilltop at Dongargarh in Rajnandgaon district of Chhattisgarh. It is the only ropeway travel system set up in Chhattisgarh state.

The magnificent view from the top is yet another attraction for the devotees who come to seek the blessings of Bamleshwari Devi. While devotees and pilgrims can also walk their way to the temple, the ropeway cable car is an added attraction that brings in tourists thronging to the temple site.

- Design, Built, Finance, Operate and
  Transfer by CRSPL in collaboration with
  Nagar Palika Parishad, Dongargarh
- Commissioned on : October, 1994
- System: Monocable Continuous Rotating Gondola
- റ്റ് Capacity : 100 PPH
- ↑↑ Length: 675 mt
- Level Difference: 183 mt
- Mumber of Cabins : 2
- & Cabin Capacity : 8 Passengers



# CHITTAGONG, BANGLADESH

A Passenger Ropeway was built for tourists visiting Sheikh Rasel Eco Park and Aviary at Rangunia Chittagong under the Department of Forest, Govt. of Bangladesh.

The aesthetic artificial lake in which birds roam can be witnessed from a bird's eye without hampering the natural biodiversity.

- o Client : Department of Forest,
  People's Republic of Bangladesh
- Commissioned on : December, 2014
- System : Monocable Continuous Rotating Gondola
- ້ທຶ Capacity : 400 PPH
- ∬ Length: 1190 mt
- Level Difference : 60 mt
- Number of Cabins : 12
- & Cabin Capacity : 6 Passengers



# SAMOD, RAJASTHAN

CRSPL signed an agreement with the Mandir Shree Sitaramji Veer Hanumanji Trust for installation of a ropeway on BOOT basis at the ancient temple built over 400 years ago.

The temple is located about 45 Kms from the Jaipur City. The Ropeway will be installed to facilitate the pilgrims with an easy access to the temple, which was otherwise accessible with a 800 step staircase.

- Design, Built, Finance, Operate and
  Transfer by CRSPL in collaboration with
  Shri Sita Ramji Veer Hanumanji Trust
- Commissioned on : May, 2019
- 🍝 System : Monocable Jig Back
- ്റ്റ് Capacity : 500 PPH
- Length: 365 mt
- Level Difference : 115 mt
- Mumber of Cabins : 6
- & Cabin Capacity : 9 Passengers





# TSOMOGO LAKE, SIKKIM

The Ropeway overlooks the holy Tsomogo Lake in Sikkim. It is the highest altitude Ropeway in India at 14000 feet providing a 360-degree panoramic view of Kanchenjungha and the Nathula Pass.

Tsomogo is about 40 kilometres from Gangtok and 15 kilometres short of Nathula, the border pass between India and China, which has become a must-visit for tourists in Sikkim.



Design, Built, Finance, Operate and Transfer by CRSPL in collaboration with Department of Tourism, Govt. of Sikkim

Commissioned on: July, 2017

System: Monocable Continuous Rotating Gondola

Capacity: 1000 PPH (operating at 800 PPH)

Length: 664 mt

Level Difference: 250 mt

Number of Cabins: 12

A Cabin Capacity : 6 Passengers



# KHOPOLI, MAHARASHTRA

The Ropeway provides a transport system to passengers visiting the lavish Jain Temple at Manuabhan Tekri.

The ride on the Ropeway provides a scenic view of the lake city and the gorgeous Jain temple where one can truly feel the spirituality of the place when the sunset covers the city sky in a blanket of warm orange.

0	Client	: ADL	ABS	Limited

Commissioned on : January, 2015

System : Monocable Jig Back

🔥 Capacity : 500 PPH

Length: 218 mt

Level Difference: 30 mt

Number of Cabins : 2

& Cabin Capacity : 10 Passengers



# MANSAPURA, RAJASTHAN

The ropeway runs from Deendayal Upadhyay Park to Mansapurna Karni Mata Temple located atop the Machhala Magar hilltop.

It was commenced to make it easier for the public to reach the holy shrine providing a grand view of the Pichola Lake. It was the first ropeway transportation in Rajasthan.

Client : Omkaleshwar Tradelink Pvt.Ltd

Commissioned on : August, 2008

System : Monocable Multi-Cabin Jig Back

្វៃ Capacity : 200 PPH

Level Difference : 84 mt

Mumber of Cabins : 4

& Cabin Capacity : 6 Passengers



#### SALKANPUR, MADHYA PRADESH

Salkanpur Ropeway plies passengers to the Vijayasan Devi Temple. The temple is perched on a hillock in Sehore district in Madhya Pradesh and the cable car is the easiest way to reach this important shrine.

The ropeway glides over a pond, through the forest area to the hill top giving a panoramic view of the surroundings. Design, Built, Finance, Operate and
Transfer by CRSPL in collaboration with
Deviji Mandir Samity

Commissioned on : December, 2009

System : Monocable Multi-Cabin Jig Back

<mark>ំ</mark> Capacity : 200 PPH

Length: 790 mt

Level Difference : 236 mt

Mumber of Cabins : 4

& Cabin Capacity : 6 Passengers



# LONAVLA, MAHARASHTRA

The ropeway is located in the western part of India, constructed in the beautiful Aamby Valley Sahara Lake City to provide the residents with an enjoyable ride to a hilltop restaurant.

Aamby Valley City is a township developed by the Sahara India Pariwar in Pune district in the Indian state of Maharashtra. It is about 23 km from Lonavala and 120 km from the city Mumbai. The township is connected by road from Lonavala. Client : Sahara India

Commissioned on : October, 1995

System : Monocable Jig Back

Length: 140 mt

Level Difference : 45 mt

Mumber of Cabins : 2

A Cabin Capacity : 6 Passengers





### BHERAGHAT, MADHYA PRADESH

The Ropeway crosses the holy Narmada River providing a panoramic view of the Dhuandhar Falls which is one of the major attractions in Jabalpur.

The view of the waterfall in the marble rocks cascades from a height of 98 feet gives mesmerizing views to the tourists that can be witnessed while taking the ride.

Design, Built, Finance, Operate and
Transfer by CRSPL in collaboration with
PWD Jabalpur.

Commissioned on : June, 2007

System : Monocable Continuously Rotating Gondola

Length: 535 mt

Level Difference : 3 mt

Mumber of Cabins : 10

& Cabin Capacity : 6 Passengers





# VIZAG, ANDHRA PRADESH

The Ropeway travels to Kailasagiri Park, overlooking the beautiful city and ocean view of the Bay of Bengal. The major attraction of Kailasagiri is the 40-foot-tall statue of Shiva and Parvathi.

This hilltop can be reached by ropeway which offers a panoramic view of the surroundings, especially the sprawling beaches that every nature lover craves. It is the first and only Coastal Ropeway in India.

- Design, Built, Finance, Operate and Transfer by CRSPL in collaboration with Vishakhapatnam Urban Development Authority
- Commissioned on : May, 2004
- System : Monocable Continuously Rotating Gondola
- 🔥 Capacity : 800 PPH
- Length: 304 mt
- Level Difference : 124 mt
- Number of Cabins : 11
  - & Cabin Capacity : 6 Passengers



## BHOPAL, MADHYA PRADESH

The Ropeway provides a transport system to passengers visiting the lavish Jain Temple at Manuabhan Tekri.

The ride on the Ropeway provides a scenic view of the lake city and the gorgeous Jain temple where one can truly feel the spirituality of the place when the sunset covers the city sky in a blanket of warm orange. Atop the hill, there is a scenic park with restaurants which is frequented by tourists and locals alike.

- Design, Built, Finance, Operate and
  Transfer by CRSPL in collaboration with
  Bhopal Municipal Corporation
- Commissioned on : June, 2001
- System : Monocable Jig Back
- ்டீ Capacity : 200 PPH
- ¶ Length: 360 mt
- Level Difference : 96 mt
- Mumber of Cabins : 2
- & Cabin Capacity : 9 Passengers



## TALA, BHUTAN

The ropeway plays an indispensable role in the operations of the power station. It efficiently transports personnel and essential equipment to and from the remote power plant, overcoming the challenging terrain and steep inclines of the region.

The Tala Ropeway stands as a testament to the ingenuity of engineering and its ability to overcome geographical obstacles. It serves as a crucial infrastructure component, facilitating the smooth operation of the Tala Hydroelectric Power Station and contributing to Bhutan's sustainable energy goals.

Client : Tala Hydro Power Authority

Commissioned on: 2001

System : Monocable Jig Back

ំ Capacity : 240 PPH

Length: 1606 mt

Level Difference : 1100 mt

Mumber of Cabins : 2

A Cabin Capacity : 6 Passengers



## MUSSOORIE, UTTARAKHAND

Kempty Falls ropeway is the best way to explore the waterfall and get a bird's-eye view of the surroundings.

To the delight of nature lovers, the ropeway provides breathtaking views of the verdant green mountains and other water bodies.

Client : Neena Contractors & Builders
PVT. LTD

Commissioned on : 2005

System : Monocable Multi Cabin Jig Back

്റ്റ് Capacity : 400 PPH

Length : 125 mt

Level Difference : 74 mt

Dumber of Cabins : 6

A Cabin Capacity : 8 Passengers



## ASHOKNAGAR, WEST BENGAL

The Ropeway provides a joyride at an Entertainment Park at Ashoknagar Sanhati Park West Bengal.

This Ropeway is the first Suburban Ropeway in India. The Ropeway is constructed across a pond giving a panoramic view of the surroundings along with an enjoyable ride to the people visiting the park.

- Design, Built, Finance, Operate and
  Transfer by CRSPL in collaboration with
  Ashoknagar Kalyangarh Municipality
- Commissioned on : December, 1999
- 🍝 System : Monocable Jig Back

  - Length: 135 mt
  - Level Difference : NIL (across a pond)
- Mumber of Cabins : 2
- A Cabin Capacity : 6 Passengers





## DARJEELING, WEST BENGAL

The Ropeway is popularly known as Rangeet Valley Ropeway, the longest indigenous ropeway in India, a 2.5 km long ride on colourful Gondolas, providing a view of the lush green tea garden and the magnificent Kanchenjungha range.

This ropeway was built in the 1960's as a 6 km long Monocable Jig Back System for transportation of logs. It was later revamped to a high capacity Monocable Continuous Rotating Gondola System to serve the high tourist flow visiting the Queen of the Hills.

Design, Built, Finance, Operate and Transfer by CRSPL in collaboration with West Bengal Forest Development Corporation

Commissioned on : March, 1998

System : Monocable Continuous Rotating Gondola

လို Capacity : 400 PPH

Length: 2300 mt

Level Difference : 530 mt

Number of Cabins : 15

& Cabin Capacity : 6 Passengers



## BANDIPUR, NEPAL

The Bandipur cable car installed in Nepal will cater to tourists along with a special provision for a cabin restaurant built along a five-star hotel as a joyride. The ropeway starts from Bandipur Rural Municipality-4 Thuldhunga and reaches Baralthok in the same district covering a distance of 1,6 kilometres.

The cable car, which starts from Thuldhungaswara, reaches the height of Bandipur via the Siddhagufa side from where the passengers can see the Siddhagufa Cave in Bimalnagar, considered the largest in Asia.

Client : Bandipur Cable Car Limited

Commissioned on : June, 2024

System : Monocable Gondola

🐧 Capacity : 500 PPH

Length: 1615 mt

Level Difference : 625 mt

Dumber of Cabins : 21

A Cabin Capacity : 8 Passengers



## **BUTWAL, NEPAL**

Siddhartha cable car a detachable grip type Monocable continuously circulating gondola has been installed from Durali Danda, Butwal to Nuwakot, Palpa Nepal to restore the historical and archeological significance value of Nuwakot for its glorious history where the Nepalese army under the Palpali king Manimukunda Sen defeated East India Company when it invaded Nepal.

The Ropeway will aid tourists to visit the ruins of the Nuwakot fort, ammunition warehouse, and temple in the mountainous terrain of Nuwakot with an aerial view from the fascinating cable car ride.

- Client: Siddhartha Cable Car Limited
- Commissioned on : August, 2024
- **為** System: Monocable Gondola
- <u>ំ</u> Capacity : 500 PPH
- ∬ Length : 1938 mt
- Level Difference : 518 mt
- Mumber of Cabins : 18
- A Cabin Capacity : 8 Passengers





## LIST OF PROJECTS

Name	Location	Capacity (PPH)
1. DRV Ropeway	Darjeeling, West Bengal	400
2. Bhopal Ropeway	Bhopal, Madhya Pradesh	200
3. Kailashgiri Ropeway	Vishakhapatnam, Andhra Pradesh	800
4. Sanhati Park Ropeway	Ashoknagar, West Bengal	400
5. Narmada Ropeway	Bheraghat, Madhya Pradesh	800
6. Maa Vijyasan Deviji Ropeway	Salkanpur, Madhya Pradesh	200
7. Tsomgo Ropeway	Gantok, Sikkim	1000
8. Veer Hanumanji Ropeway	Samod, Jaipur, Rajasthan	500
9. Rajgir Ropeway	Rajgir, Bihar	800
10. ADLABS Imagica	Khopoli, Maharashtra	500
11. Chittagong Ropeway	Chittagong, Bangladesh	400
12. Mansapura Ropeway	Udaipur, Rajasthan	200
13. Kempty Falls Ropeway	Mussoorie, Uttarakhand	400
14. THPA Ropeway	Tala, Bhutan	240
15. Aamby Valley Ropeway	Lonavla, Maharashtra	100
16. Maa Bamleswari Ropeway	Dongargarh, Chattisgarh	100
17. Bandipur Ropeway	Bandipur, Nepal	500
18. Siddhartha Cable Car	Butwal, Nepal	500
19. Brahmyoni Hill Ropeway	Gaya, Bihar	100 / 150 / 200
20. Manyam Konda Ropeway	Telengana	350
21. Biswanath Ropeway	Assam	300



## **CURVO - URBAN TRANSPORTATION**





# A NOVEL METHOD OF URBAN TRANSPORTATION

The Curvo Ropeway System is a path breaking invention where overhead ropeway can be made to follow a nonlinear route along urban roads which will revolutionise the traditional aerial ropeway. This increases opportunities and can be a great Urban Transportation system acting as an alternative mode of transport.

CURVO is a non-linear and unique innovation in urban communication which is here to address the need for a solution that saves commuters from living the daily nightmare of commutation.

CRSPL, being in the field of aerial transportation for decades and it's founder, Mr. Shekhar Chakraverty, through his vast experience of over 55 years in the field of aerial ropeways in India and abroad felt the need to introduce the ropeway for transportation in urban areas with compatibility to the existing infrastructure.

CURVO is adaptable and amenable to bends being able to follow existing road networks, travelling overhead without consuming or interfering with road space below and the vehicular traffic.

The CURVO ropeway can be operated over congested serpentine metro roads. It has enormous potential for congested cities as a safe, convenient, environment-friendly, comfortable, accident-free, and economic mode of transport.



Overhead Transport



Safe & Convenient



Follow Existing Road Network



Suitable to Carry Heavy Loads

We hold the worldwide patent for this technology.



### **URBAN ROPEWAY**

Ropeways, also known as cable cars or gondolas, can indeed serve as an urban mode of transportation. They offer several advantages:

- 1. Efficient and speedy transportation:
  Ropeways can provide a fast way to travel between two points in an urban area, as they are not affected by road congestion.
  This makes them ideal for short to medium distance travel.
- 2. Environmentally friendly: Ropeways are typically powered by electricity, making them a greener alternative to traditional modes of transportation that rely on fossil fuels. They produce lower carbon emissions and have a minimal impact on air quality.
- **3. Cost-effective:** Compared to constructing and maintaining roads or building underground metro systems, ropeways can be a more cost-effective option. They require less space and infrastructure, making them a viable solution for cities with limited resources.

#### 4. Scenic and tourist attraction:

Ropeways often provide panoramic views of the cityscape, landmarks, or natural surroundings. This makes them not only a means of transportation but also a tourist attraction, enhancing the overall urban experience.

- **5. Low noise pollution:** Ropeways operate quietly compared to road traffic or rail systems, minimizing noise pollution in densely populated urban areas.
- **6. Efficient use of space:** Ropeways can be installed above existing infrastructure, saving valuable land and reducing the need for extensive construction.



## **FEATURES**

- It runs on electricity and does not use organic fuel.
- It is an automated Drive System, instead of multiple human controls behind the wheels as is the case with vehicular transportation system in vogue.
- The operation of the system would be centrally controlled from the Drive Station Control room with CCTV facility, which will monitor cabin movements.
- The non linear feature of Detachable Grip Ropeway has been Patented worldwide by Mr Shekhar Chakravarty, Managing Director of CRS, the inventor of the technology.

- It will run on existing arterial roads on steel portal frames spaced at 90-100 meters supporting the ropes
- It will need nominal ground space for stations and rope supporting portal frames.
- The CURVO will, on any designated route, provide boarding deboarding facility at every 750 metres.



### **CHARACTERISTICS**



#### System:

Monocable Gondola System with Vertical Detachable Grips

#### Carriers:

Cabins of 10 seater capacity with automatic door opening and closing, will travel at 20 second intervals.



#### Speed:

( ) Top Speed of 16 km/hr Average Speed of 12 km/hr



#### **Transport Potential:**

Capacity 2000/2500 passengers per hour (PPH) each direction and 4000/4500 (PPH) both direction



#### Power:

For 5 km, estimated power needed is 250 KW. For a 200 km city network, it will amount to 10MW.









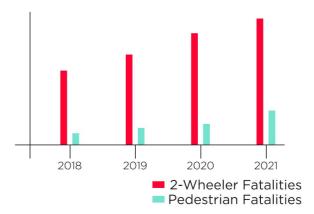
### WHY DO WE NEED CURVO

- Generate a 2nd tier alternative aerial transportation system along the existing road routes.
- Provide to thousands of pedestrians a new transportation facility
- Minimize the occurrence of road accidents, it having a fully automated drive system instead of multiple human control behind wheels.
- Minimize congestion in urban roadways
- No other alternative mode of transportation like Monorail, Metro, Flyover are technically not feasible for installation in hilly areas.
- Curvo provides a great alternative for public transport at a time when clogged road spaces in cities are at an all time high.
- Modernization and use of latest green technology in transport system is the need of the hour.
- This ensures seamless First Mile & Last Mile Connectivity. It can be implemented as feeders to existing mobile networks.

"Every 24 seconds a life is cut short because of a road traffic collision.90 percent of the World's Road fatalities occur are from low and middle income group."

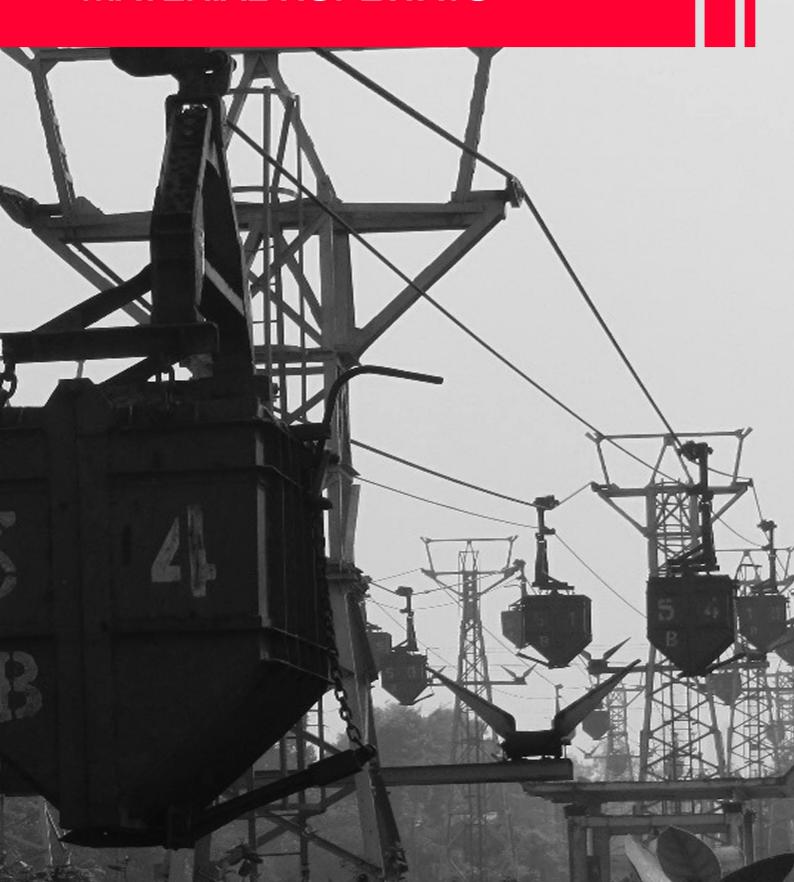
> Antonio Guterres UN Secretary General

Road safety has been in a steady decline with gradual increase of fatalities from road accidents over the years.





## **MATERIAL ROPEWAYS**





### **ABOUT 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

The term "monocable" means that one single rope carries (first function) and hauls (second function) the carrier that is hung to it.

This type of rope is called a "carrying-hauling rope". The carriage is fixed to the hauling/carrying rope. It does not disengage during boarding/de-boarding operations.

#### **Features:**

- Simple Construction and Operation
- Less Expensive

#### **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 300 TPH for short distance





# DETACHABLE GRIP TYPE MONOCABLE ROPEWAY SYSTEM

This is the most popular System for Material Ropeway can adapt length and terrain condition.

In this system a single endless continuous moving rope supported on intermediate tower rollers carry the bucket spaced at equal intervals The in coming bucket to the terminal stations and disengages from the rope and moves on the shut rail.

#### Advantages:

- High Transport Capacity
- Adjusting speed and number of buckets as per demand
- Can negotiate rugged terrain.
   Ropeway profile follows the ground.
- · Moderately high speed possible.
- · Low tower height.

#### Capacity:

• Upto 350 TPH for short distance



# DETACHABLE GRIP BICABLE ROPEWAY SYSTEM

This is the most popular System for Material Ropeway can adapt all most all length and terrain condition.

In this system a single endless continuous moving haulage rope are attached to the gondola cabins, spaced at equal intervals and the cabins are supported on a track rope The in coming cabin to the terminal stations and disengages from the rope and moves on the shut rail.

#### **Advantages:**

- Can negotiate long span, particularly while passing rivers or gorges.
- Less number of moving parts, vis-àvis low cost

#### Capacity:

• Upto 750 TPH for short distance

## RENUSAGAR, UTTAR PRADESH

CRSPL first built a 8km long detachable grip type monocable ropeway of 300 THP capacity over a rugged terrain. It was India's first detachable grip industrial ropeway. Later, when its purpose was finally met the ropeway was converted to a bicable system, truncating its length.

Client : Hindalco Industries
Limited, Renupower Division

🍝 System : Bicable Ropeway

**∏** Length : 2500 mt

Level Difference : 3 mt

്റ്റ് Capacity : 350 TPH





## LOHARDAGA, JHARKHAND

CRS has designed, built, supplied and successfully converted a material ropeway of length 10km from 90 TPH to 180 TPH for transportation of Bauxite.

○ Client : Hindalco Industries
○ Limited, Mines Division

System : Bicable Ropeway

∏ Length: 9.8 Km

Level Difference : 0.37 Km

്റ്റ് 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

ဂိုဂို 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 2400 mtr at Gharibwal Cement Plant.

Client : Gharibwal Cement Plant

System : Monocable Ropeway

ff Length: 2400 mtr

高

റ്റ് Capacity : 650 TPH





## LOADING AND UNLOADING SYSTEM





## LIST OF PROJECTS

YEAR	CLIENT	CAPACITY	TYPE		
1971	Indian Ropeway Engineering Company,	75 TPH	5 Km long Monocable Ropeway		
	Dhanbad				
1973	Indian Ropeway Engineering Company,	200 TPH	1.2 Km long Bicable Ropeway		
	Dhanbad				
1977	Damodar Ropeways & Construction Co.	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		
1984	Cement Plant site for Malabar Cements.	200 TPH	6.3 Km long Monocable Ropeway		
	Ltd.				
1984	Pipla Colliery for MSEB, Nagpur	100 TPH	4.0 Km long Monocable Ropeway		
1988	Renusagar Power Co. Ltd (RPCL)	300 TPH	Monocable Detachable Grip Ropeway		
1989	Bharat Coking Coal Ltd.	200 TPH	Refurbishing of existing Tramcar Ropeway		
1996	Diamond Cements, Damoh	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	650 TPH	750 mt long Ropeway		
2011	Hindalco, Renusagar	350 TPH	2400 mts long detachable grip type monocable		
			ropeway		
2012	Hindalco, Lohardaga, Jharkhand	150 TPH	Capacity augmentation of Ropeway from 41.64		
			TPH to 150 TPH		



## **COAL WASHERY**





### **ABOUT COAL WASHERY**

CRSPL specializes in coal washery services, which involve the process of removing impurities and contaminants from raw coal to enhance its quality and purity.

Coal washery facilities use a combination of techniques such as screening, washing, crushing, and gravity separation to separate coal from its impurities like rocks, soil, and other foreign materials.

CRSPL uses a wet technology operating with self-generated slurry as media. In collaboration with a British firm, the technology was first incorporated at a mine at Dhanbad, under the S&T Grant from the Govt. of India and it proved to be successful.

CRSPL has shown the way of a Pithead Washery capable of washing coal at the mine end and leave the dirt behind and save transportation of ashes laden in coal.

We at CRSPL deal in the following:

- Coal Washing Plant
- Manganese Ore Washing Plant
- Limestone Washing Plant



# COAL WASHING PLANT WITH NATURAL MEDIUM

Natural plant medium consisting of coal fines generated in washing unit has been found to be the most cost effective in processing and separating ash in ROM coal. The coal fines are generated from the ROM feed coal. These natural medium washing units are most cost effective method, processing ROM coal for industrial use.

The technology is backed by a British process design. The first plant of this technology was implemented under Science & Technology (S&T) Grant, in Lodna Colliery, BCCL, Dhanbad, through CMPDIL, Ranchi, in 1991, on subjection of stringent performance test of difficult coal of Jharia coalfield. Performance through test was found satisfactory. Subsequently, a number of plants on this technology were built and found fully successful for both coking and non-coking coal.

The plant uses 4 separating functions in the equipment:

- 1. Barrel
- 2. Cyclone
- 3. Dewatering Screen
- 4. Sieve Bend

#### Advantages :

Coal is improved by washing and separating, which generates the following advantages :

- 1. Better calorific value
- 2. Lower ash content
- 3. Lower sulphur content, if applicable

The plant provides the following benefits.

- Low capital expenditure
- · Low gestation period
- Low water and power consumption
- · Low running cost
- High efficiency
- · Robust modular design
- Quick assembly, easy to move
- Extensive product range
- Low power use
- Minimal manpower
- · Less pollution

CRS has developed a Combined Natural Media & Dense Media Washing Plant to accept a wide variety of input coal as also to achieve an organic efficiency to the level 95-96%. Each circuit is in modular form, effectively dovetailed and integrated in a limited place.



## TYPES OF PLANTS OFFERED

#### A. Barrel-cum-Cyclone Plant

Capacity Range: 25-300 TPH

This type of plant is ideally suited for reducing ash in low grade coal for the following:

- 1. Power Sector
- 2. Sponge Iron Units
- 3. Cement Plants

#### B. Barrel only Washing Plant

Capacity Range: 25-300 TPH

This type of plant is capable of handling high extraneous ash, reduction of which can be in the region of 10-12%.

#### C. Cyclone only Plant

Capacity Range: 15-30 TPH
The design is simple and involves low investment, which is the USP. This is particularly suited for small consumers like:

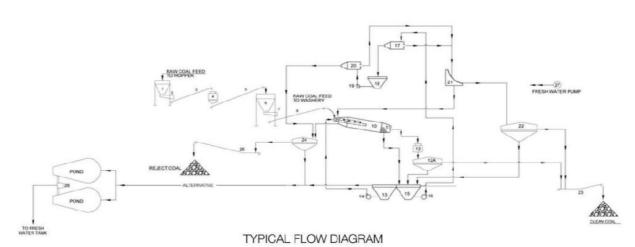
- 1. Cookeries
- 2. Small size Sponge Iron Plant

#### **D. Slurry Treatment Plant**

Capacity Range: 10-15 TPH

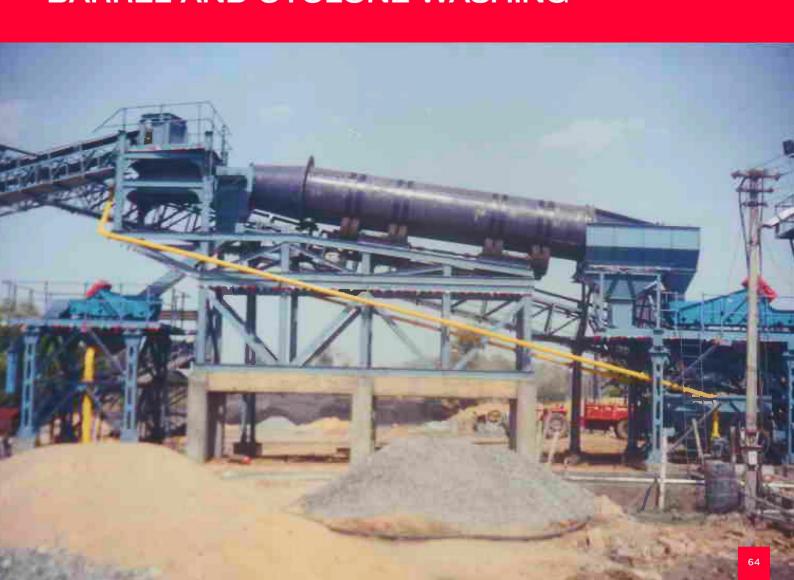
This type of plant is ideally suited for reducing ash in low grade coal for the following:

- 1. Power Sector
- 2. Sponge Iron Units
- 3. Cement Plans





## **BARREL AND CYCLONE WASHING**





## LIST OF PROJECTS

YEAR	LOCATION	CLIENT	CAPACITY	TYPE	
1991	Modular Coal Washing Plant, Lodna Colliery	CMPDIL	120 TPH	Barrel-cum-Cyclone Modular Plant	
1993	Modular Coal Washing Plant, Damoh	Diamond Cements	120 TPH	Barrel-cum-Cyclone Washing Unit	
1994	Modular Coal Washing Plant, Dhanbad	Chain Impex	25 TPH	Barrel-Cum-Cyclone Washing Unit	
1995	Modular Coal Washing Plant	Shree Shyam Coal	15 TPH	Mini Modular Cyclone Washing Unit	
		Co. Ltd.			
1995	Modular Limestone Cleaning Plant	Diamond Cements	100 TPH	Washing Plant for removal of clay from Limestones	
1997	Mini Modular Coal Washing Plant & Material	Maa Parvati Coke	15 TPH	Mini Modular Coal Washing Plant	
	Handling System, Dhanbad	Industries			
1998	Mini Modular Coal Washing Plant, S.K. Coal &	S.K. Coal & Coke	15 TPH	Mini Modular Coal Washing Plant	
	Coke Ltd. Jaunpur				
2001	Mini Modular Coal Washing Plant & Material	Barhmdeo Sinha &	25 TPH	Mini Modular Coal Washing Plant	
	Handling System, Dhanbad	Co.			
2001	Mini Modular Coal Washing Plant & Material	BLA Industries Ltd.	15 TPH	Mini Modular Coal Washing Plant	
	Handling System, Mumbai				
2002	Modular Coal Washing Plant, Dhanbad	Akash Coke	25 TPH	Modular Coal Washing Plant	
		Industries Pvt. Ltd.			
2003	Modular Cyclone Coal Washing Plant,	Surya Coke Pvt.	20 TPH	Modular Coal Washing Plant	
	Sundargarh	Ltd.	1904 March 101/00/2011 M. 10		
2004	Modular Cyclone Coal Washing Plant,	Sadguru Ispat Pvt.	25 TPH	Modular Coal Washing Plant	
	Jharsuguda, Orissa	Ltd.			
2008	Modular Coal Washing Plant, West Bengal	Jai Balaji Jyoti	50 TPH	Barrel-cum-Cyclone Modular Plant	
		Steels Ltd.			
2005	Modular Coal Washing Plant, Chattisgarh	Shiv Shakti Steel	50 TPH	Barrel only Coal washing plant	
		Ltd.	10 TDU	Cool Floor Donaficiation Plant	
2005	Coal Fines Beneficiation Plant, Dhanbad	Akash Coke	10 TPH	Coal Fines Beneficiation Plant	
2005	Madulay Coolage Caal Washing Blank	Industries	OF TOU	Dawel our Cyclene Cool Washing Dlant	
2005	Modular Cyclone Coal Washing Plant, , Kumardhubi	Shree Dwarka Bee- Hive Plant	25 TPH	Barrel-cum-Cyclone Coal Washing Plant	
2005		BLA Industries Ltd.	50 TPH	Barrel-cum-Cyclone Plant	
2005 2005	Modular Coal Washing Plant , Narsingpur Sponge Iron Unit, Jharsuguda, Orissa	SMC Power	125 TPH	Barrel-cum-Cyclone Plant  Barrel-cum-Cyclone Plant	
2003	Sponge non onit, marsuguda, Orissa	Sinc Power	123 1711	Barrer-Curri-Cyclone Flant	



# CONVEYOR & ROPEWAY SERVICES PVT. LTD.

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CIN: U60210WB1999PTC089960

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