

CURVO



About CRSPL

CRSPL is the pioneering Company in India in the field of Aerial Ropeways. Founded in the year 1975, CRSPL has over **47 years of experience**. At CRSPL we conceptualise and manufacture ropeways which provides an end to end service, all under one roof.

We have successfully executed over **130 projects** for both private and public sectors. We are at the forefront of the ropeway industry with **8 offices all over India, 3 overseas contact offices**, a full fledged design team, a well equipped manufacturing unit and an extensive R&D wing.

We have international exposure as well. We have executed many overseas contracts in the subcontinent including and not exclusively, **Indonesia, Taiwan, Bhutan, Nepal, Bangladesh & Pakistan**. We have also exported our designs to **the United States and the United Kingdom**.



130+
Projects

48+
Years

70+
Clients

BULBSTUDIO



A Novel Method of Urban Transportation

The Curvo Ropeway System is a path breaking invention where overhead ropeway can be made to follow a non-linear 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



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**.



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 :

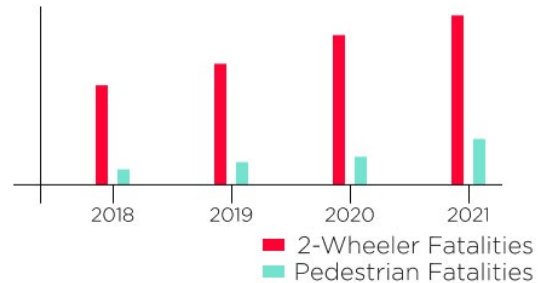
For 5 km, estimated power needed is 250 KW. For a 200 km city network, it will amount to 10MW.

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.

- The Ropeway **maintenance and emergency conditions** would be easier to address.
- Widespread development of industries to meet the increasing need of the **system which will benefit SMEs and MSMEs**.

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



“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





Concept Views of the Ropeway over cities



Concept Views of the Ropeway over canals



CRSPL

Corporate Office

75 C, Park Street, 6th Floor,
Kolkata - 700016.

Ph. No. : 033-2229-5990 / 2217-6779

Fax No. : 033-2217-4280

Email : crs_pl@yahoo.co.in
marketing_crspl@yahoo.in
tech_crspl@yahoo.in

Website : www.crspl.com

Site Office Workshop

A. 1, Tarpan Ghat Road,
Kolkata - 700053.

B. 14 No. Bhasa, Bishnupur,
Kolkata - 743503.