

# Coal Washery



# 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





## COAL WASHERY

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

We at CRS deal in the following :

- Coal Washing Plant
- Ore Cleaning 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 :

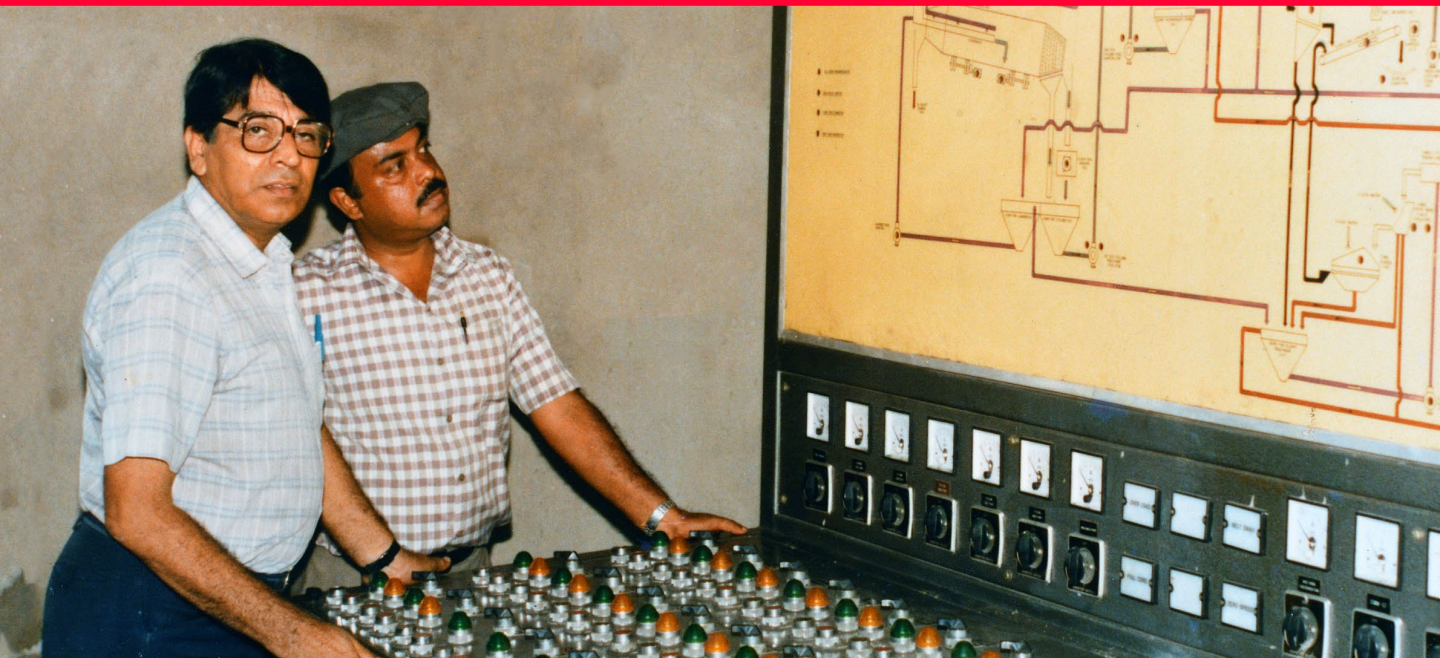
Coal is improved by washing and separating, which generates the following advantages :

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

# LIST OF PROJECTS

YEAR	LOCATION	CLIENTS	CAPACITY	TYPE
1991	Modular Coal Washing Plant, Lodna Colliery	CPMDIL	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 Co. Ltd.	15 TPH	Mini Modular Cyclone Washing Unit
1995	Modular Coal Washing Plant	Diamond Cements	-	Washing Plant for de-sitting of Limestones
1997	Mini Modular Coal Washing Plant & Material Handling System, Dhanbad	Maa Parvati Coke Industries	15 TPH	Mini Modular Coal Washing Plant
1998	Mini Modular Coal Washing Plant, S.K. Coal & Coke Ltd. Jaunpur	S.K. Coal & Coke	15 TPH	Mini Modular Coal Washing Plant
2001	Mini Modular Coal Washing Plant & Material Handling System, Dhanbad	Barhmdeo Sinha & Co.	25 TPH	Mini Modular Coal Washing Plant
2001	Mini Modular Coal Washing Plant & Material Handling System, Mumbai	BLA Industries Ltd.	15 TPH	Mini Modular Coal Washing Plant
2002	Modular Coal Washing Plant, Dhanbad	Akash Coke Industries Pvt. Ltd.	25 TPH	Modular Coal Washing Plant
2003	Modular Cyclone Coal Washing Plant, Sundargarh	Surya Coke Pvt. Ltd.	20 TPH	Modular Coal Washing Plant
2004	Modular Cyclone Coal Washing Plant, Jharsuguda	Sadguru Ispat Pvt. Ltd.	25 TPH	Modular Coal Washing Plant
2008	Modular Coal Washing Plant, , West Bengal	Jai Balaji Jyoti Steels Ltd.	50 TPH	Barrel-cum-Cyclone Modular Plant
2005	Modular Coal Washing Plant, Chattisgarh	Shiv Shakti Steel Ltd.	50 TPH	Barrel only Coal washing plant
2005	Coal Fines Beneficiation Plant, , Dhanbad	Akash Coke Industries	10 TPH	Coal Fines Beneficiation Plant
2005	Modular Cyclone Coal Washing Plant, , Kumardhubi	Shree Dwarka Bee-Hive Plant	25 TPH	Barrel-cum-Cyclone Coal Washing Plant
2005	Modular Coal Washing Plant , Narsingpur	BLA Industries Ltd.	50 TPH	Barrel-cum-Cyclone Plant



## CONVEYOR & ROPEWAY SERVICES PVT. LTD.

### 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](mailto:crs_pl@yahoo.co.in)  
[marketing\\_crspl@yahoo.in](mailto:marketing_crspl@yahoo.in)  
[tech\\_crspl@yahoo.in](mailto:tech_crspl@yahoo.in)

Website : [www.crspl.com](http://www.crspl.com)  
CIN : U60210WB1999PTC089960

### WORKSHOP

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

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