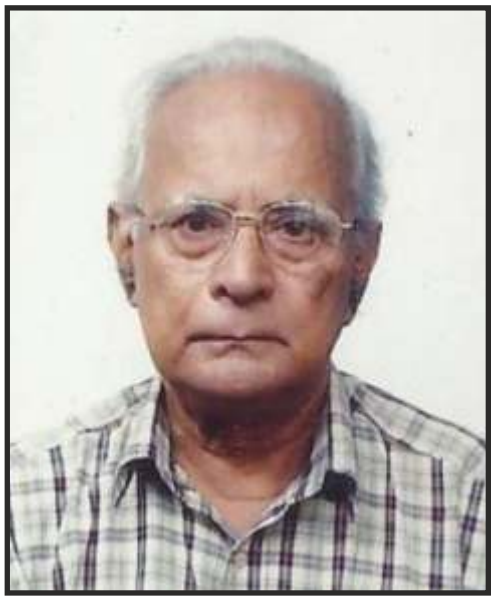
Mine Line® PVT. LTD.
EQUIPMENT FOR MODERN MINING



MINE LINE - A SUCCESS STORY



Mine Line Pvt. Ltd. is the leading manufacturer of Electrical equipment

Mine Line Pvt. Ltd. was founded in 1977 by an eminent Mining Engineer Sri Birendranath Mukerjee who had a phenomenal insight into the mining industry and its complexity of problems. He had a clear vision that Indian industry needs to stand on its own ground, without relying on the foreign manufacturers. He was awarded The MGMI Engineering Gold Medal in 2009 - 2010 for his outstanding contribution to Mining Science.



Since inception Mine Line has been designing & manufacturing flameproof and industrial equipment for the mining industry of India. These include high technology switchgear, transformers, gate end boxes, circuit breakers, starters and transwitch units.




Factory Shop Floor

There are 3 manufacturing units in and around Kolkata. These units also manufacture components, independently, like Transformers, Isolators, Relays, Plugs & Sockets.

Mine Line has Service Centres located on an all Indian Basis. There are dedicated service teams of skilled engineers at all the Service Centres who are able to give complete customer support.

At MINE LINE the story to success has been that it has been able to adapt itself to the needs of the underground mining industry and always has managed to keep a step ahead with the R&D efforts towards innovation and development.


Factory Store


Test Bench

The company is capable of supplying total project electricals, for running of any mechanized mine, PSLW, CM, Shortwall, Longwall, Bolters or Road Headers.


Load Center


Transwitch Unit


Compact Station


Bank of
Boltless Gate End Boxes


Gate End Box


Air Circuit Breaker


Drill Control Panel


Junction Box


Vacuum Starter


Vacuum Circuit Breaker


Signalling Transformer


Signalling Bell


Belt Sway Switch


Belt Speed Switch

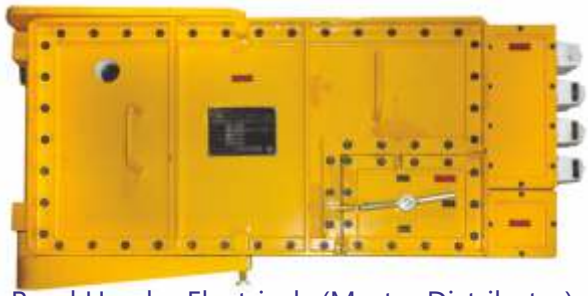

Pull Cord Switch


Foot Pedal Switch


SDL Lighting Transformer


Well Glass Light Fitting


Bulkhead Light Fitting


Road Header Electricals (Master Distributor)


Road Header Electricals (Master Controller)


Relays



NFLP Low Tension Motor Control Panel



NFLP High Tension Motor Starter



Field Switch



NFLP Vacuum Circuit Breaker Panel



NFLP Air Circuit Breaker



6.6KV Auto Transformer Starter



6.6KV Transportable Unitized Transformer



Vacuum Circuit Breaker up to 11KV



NFLP Limit Switch



NFLP Well Glass Fitting



NFLP Pull Cord Switch



NFLP Limit Switch

PRODUCTS FOR OIL, GAS & PETROCHEMICAL INDUSTRIES



FLP Annunciation Panel (LCAP)

Mine Line is the market leader in flameproof Air Circuit Breakers. Entire breakers are assembled at our factory for higher degree of reliability. Current serial number is in the region of 9000 units.



Air Circuit Breaker



SDL Lighting Transformer



Junction Box

Development of Electricals for SDL and LHD machines operating underground. The company has held OEM partner status with Eimco Elecon since 1990.



Chair Lift Starter

Development of Electricals for Chair Lift Systems and Man Riding Systems in 2003 with Eimco Elecon, APHMEL and Bharat Westfalia.

Development of 6600 Volts Compact station Starters. These multiple drive Starters are used for running of full conveyor system of loads upto 400KW. Mainly to power the main Gate Belt/Trunk Belt Conveyors with Winch Panel, Auxiliary Transformers. Over 50 such starters are working in Jhanjra and countless other mines in SECL since 1996. These continue to be the back bone of the coal conveying system, in any mechanized mine.



Compact Station with Winch Panel



Bank of Boltless Gate End Boxes

Development of Boltless Gate End Boxes in 1997. The company is capable of supplying pantechnicon banks of boltless gate end boxes for a mechanized mine, from conveying to running a Shortwall, Continuous Miner, Drivage, Bolter Operations. These are a unique innovation, and do not need the opening of any bolts for opening or closing of the main door. These Gate End Boxes are capable of being serviced in minutes as they have a fully withdrawable cartridge with butt contacts where the power and auxiliary electricals are mounted.



Vacuum Circuit Breaker Panel



Vulcan 3300V



Zeus 6600 V

Development of own Vacuum Circuit Breakers of 400A, 3300 Volts(13.1KA) and 1250A, 6600 Volts(20kA).Over 800 flameproof vacuum circuit breakers of 3.3 kV and 6.6 KV are in use today

Development of full range of import substitution Plug and Sockets, Coupler and Adopter, Double Compression Glands, Flit Plugs and Mid Face Couplers. The Plugs and Sockets and Mid Face Couplers of 1100 volts and 550 Volts, are capable of being fitted on any trailing cable. Mine Line has developed 400 A 3300 Volts Plug & Sockets as well as for trailing Cable application.

A range of gland entries of double compression type, are also certified and approved for use on any voltage from 550 Volts to 1100 Volts.The Plugs & Sockets for surface installations also start from 1100 Volts for open cast application.





Field Switch units in 1999. Mine Line are OEM partners to Ingersoll Rand. Export order for field switches from companies like LIEBHERR, France



LED Bulkhead light fittings in 2010 with independent Isolator and hinged cover.

Well Glass light fittings in 2017 with Individual Isolator Operation. These can be versatile to operate as illumination of gallery as well as used for visual signaling operation by blinking for prestart of a conveyor, chairlift, along with our Lighting cum Signalling Units.





In 1996 the company developed its first 1000 KVA Transwitch Unit. This was a successful product.

In 2010, Mine Line supplied 1000KVA Transwitch Units for Rani Atari, and Kumbarkhani Project at SECL.





The 2MVA Load Center supplied to JOY has a modular fully integrated digital control and communication systems. All the drive motor parameters are monitored with the aid of a computerized VGA monitor mounted on the front cover. Operation is through an intrinsically safe mouse and screen controls externally. The load center control and protection systems have been imported from our technology partners, namely, BARTEC Sicherheits Schaltanlagen, GmbH of Germany.

BARTEC has a technology transfer and technical collaboration with Mine Line since year 2012. They are OEM partners to SANDVIK, EICKHOFF, CAT, etc. The total manufacture, testing, and installation of the computerized modular control and protections was supervised by their team of Engineers from Germany who visited us periodically to train our Service Engineers.

In 2013 Mine Line developed the 2 MVA Load Centers for the running of a Continuous Miner with 12 secondary drives. This Load Center was fitted on a JOYGLOBAL Continuous Miner at SECL Chirmiri.



The Automation System on Mine Line Loadcentre



2 MVA Load Center which is presently working at
Kapildhara Project, SECL with JOY GLOBAL





In 2014, Mine Line supplied its first indigenous Longwall package with ZMJ China, under their consortium with INDU Projects for the BCCL Moonidih XV1 Seam Project. It is running successfully since 2015. A devoted team of almost 10 engineers, electrical, mechanical and instrumentation were responsible for hand holding of the project with the mine operators running the same on a shift basis. One of the reasons for the success of this project is the availability of dedicated, trained manpower present at the site at all times to help to run the project.



30A Bolted type Plug & Socket
30A & 650V



Restrained Type Plug & Socket
200A & 550V/1100V



Bolted Type Plug & Socket
200A & 550V/1100V



Bolted Type Plug & Socket
Cable Reeling Drum 200A & 550V/1100V



Mid Face Coupler 200A & 550V/1100V



Mid Face Coupler 600A & 550V/1100V



Restrained Type Plug & Socket
600A & 550V/1100V



Bolted type Plug & Socket
600A & 3300V



Coupler & Adopter
600A & 3300V



Coupler & Adopter 600A & 3300V



Coupler & Adopter 600A & 3300V



Coupler & Adopter 600A & 6600V



6.6KV NFLP Coupler & Adopter



11KV FLP Coupler & Adopter



Coupler & Adopter 600A & 6600V



10 SQ. MM. Double Compression Gland



20 SQ. MM. Double Compression Gland



50 SQ. MM. Double Compression Gland



Cold Cable
Compounding Kit

JV with SAIT Mining SA, France 1985-2004 now part of the Becker group of Companies which provided the foundation for the Company's excellence in product design & manufacturing. This also resulted in the manufacture of a large number of import substitution products, most of which were ahead of its time.

Technology Transfer Agreement with BARTEC Sicherheits Schaltanlagen GmbH(EU 400M Company). BARTEC are the market leaders in flameproof & Intrinsically safe technology with global presence in 7 different countries to cater to the Oil, Gas and Coal industries. Mine Line and Bartec GmbH Germany have successfully developed the Load Center digitisation with touch pad / mouse Screen.

Protocol of understanding with the Cheaz Group of Companies, Russia for design, manufacture, marketing of Flameproof equipment for the Siberian coal mines.

Technology Transfer Agreement with Becker Warkop Poland, for Mine transport System and Shearers. Becker-Warkop Ltd. a leading manufacturer of machinery for mining since 1991 is inextricably linked with the Polish mining industry.

BARTEC

Sicherheits Schaltanlagen GmbH, Germany





CHEAZ Russia



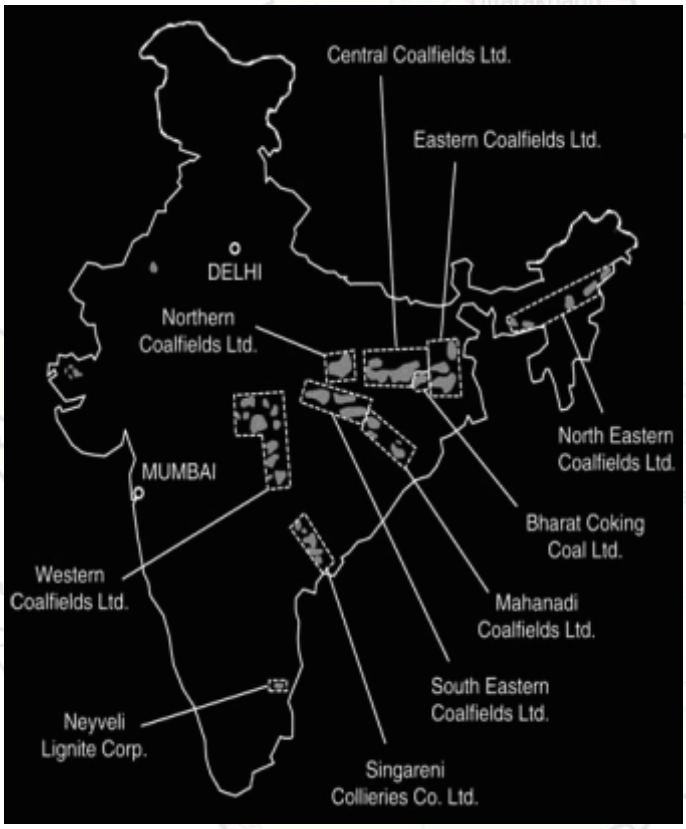


becker WARKOP
SYSTEMY DLA GÓRNICTWA
A PART OF THE BECKER MINING SYSTEMS GROUP OF COMPANIES

Poland







SERVICE NETWORK

NLC INDIA LTD.
Neyveli – 9443268623

OEM & PRIVATE MINES
Tapas Kr. Majumder – 9830309928

Kaushik Banerjee – 9830006756

SOUTH EASTERN COALFIELDS LIMITED
BILASPUR

PAB Engineering Works Pvt. Ltd.

Bilaspur – 07752 407903

MANENDRAGARH

J. Adhikary, Manendragarh – 9926708819

Moin Ansari, Manendragarh -9165670280

Miland Singh, Manendragarh – 8447494287

NORTHERN COALFIELDS LIMITED
Walaji Engineering Works,

Singrauli – 9993913980

WESTERN COALFIELDS LIMITED
Gotey Engineering Works,

Nagpur – 0712 2226869

THE SINGARENI COLLIERIES CO. LIMITED
Mr. Kalipasad K. Godavarikhani – 9492206454

Mr.Bhaskar K, Godavarikhani – 9866237549

NTCP LTD
Mr. Kalipasad K. Godavarikhani – 9492206454

Mr. Bhaskar K. Godavarikhani – 9866237549

MAHANADI COALFELDS LTD.
PAB Engineering Works Pvt. Ltd.

Jharsaguda – 07752 407903

EASTERN COALFIELDS LIMITED
ASANSOL

Hindustan Sales Agency

Sanjay Tribedi, Asansol – 9932704858

JHANJRA

Snehasis Das, Jhanjra – 7003125812

Arijit Das, Jhanjra – 9851891096

Gouridas Ganguly, Jhanjra– 9647504034

BHARAT COKING COAL LIMITED
Rohit K Shah, Dhanbad – 9430382440

Akash Enterprise, Dhanbad – 03262305004

CENTRAL COALFIELDS LIMITED
Electro Enterprise, Ramgarh – 9431146205








Regular in-house and on-job training
Dedicated training centre manned by qualified trainers
Training comes along with the sale of equipment for clients
In-house training sessions and mine management courses conducted for ISM students and customers

A ISO 9001 : 2015 company
Products are tested at CIMFR(CSIR), CPRI, ERTL
50 different Approvals from the Directorate General of Mines Safety for use in Underground Coal Mines.
Development of the 2MVA Loadcentre for running with the Continuous Miner JOYGLOBAL, UK at Chirimiri & Kapildhara with foreign collaboration
Design, Manufacture & Project Installation of complete electricals for the Moonidih Longwall project at BCCL XVI Seam. A Turnkey execution.
Total electricals for RK Newtech Shortwall of The Singareni Collieries Co. Ltd. and Ambuja Cement Raigarh









Mrs.Nandini Chakravarty, Managing Director, Mine Line Pvt. Ltd. receiving the Engineering Gold Medal 2014 from MGMI for the 2MVA Loadcentre developed by Mine Line Pvt. Ltd.

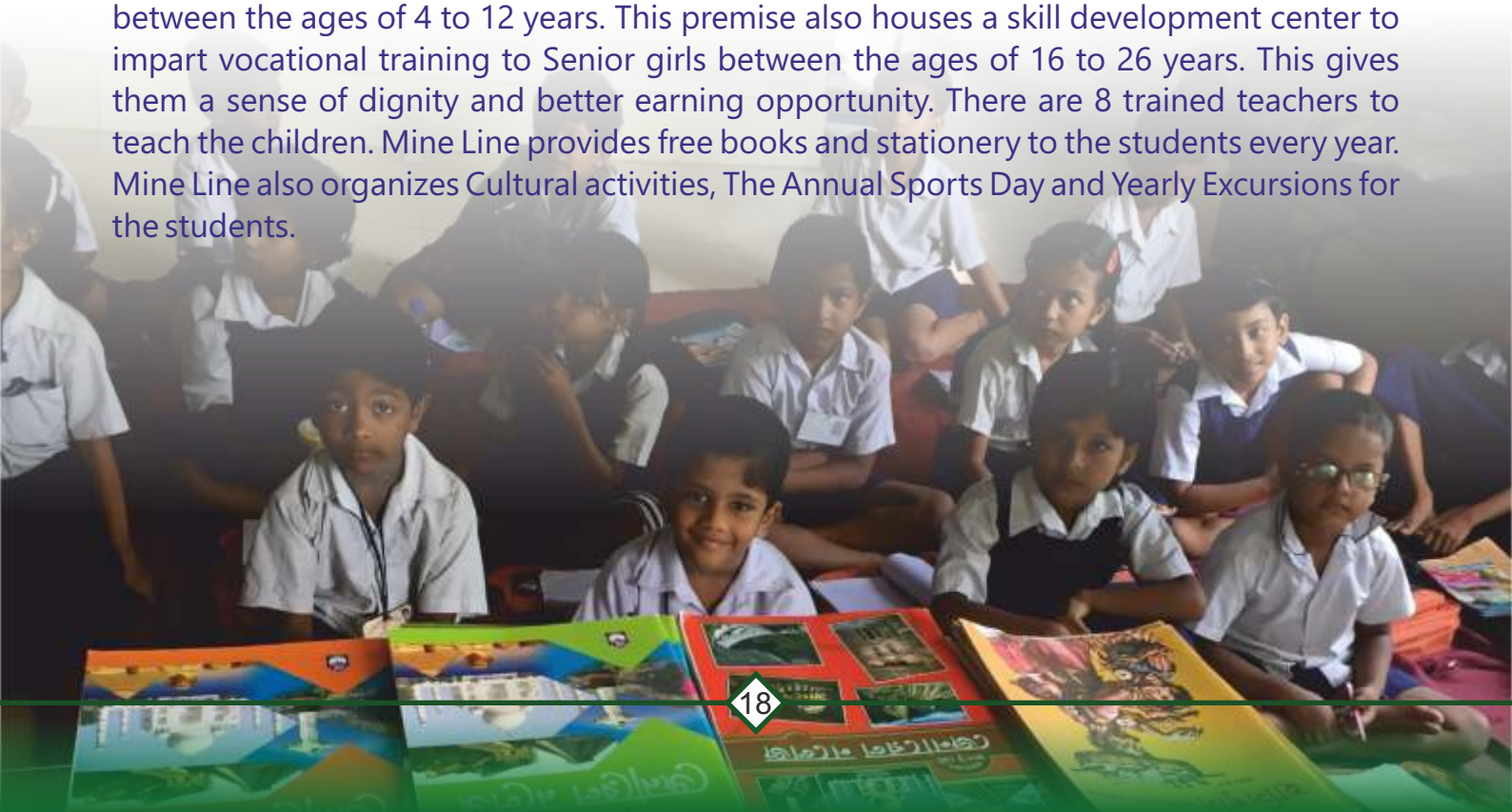
Another Initiative of Mine Line is directed towards a greener Calcutta. For the past 15 years, Mine Line has maintained "Indrani Park" primarily located on Prince Anwar Shah Road. This park has won many prizes from The Agri-Horticultural Society of India, in the category of Best Maintained Public Parks in Kolkata. The park is open to the public from 6am to 7 pm This park is a unique Bio Diversity Hotspot. Besides a well maintained park with seasonal flowers, there is a water body, full of fish, adjacent to the park. Visitors young and old, feed the fish on a regular basis. The water body is surrounded by natural green foliage, where one can spot mongoose, snakes, kingfishers, parakeets, pond herons, egrets, cormorants and other species of birds.

This love for nature is shared by the entire Mine Line team. They wholeheartedly support the company in its efforts to create a better city and a better world.





Paving the way for a better city with an effort to return to nature a little of what we take for granted on a daily basis. Mine Line believes in making the World a better place for the future generations through its CSR Activities. As a part of this initiative, Mine Line, along with other NGOs has been supporting "Jai Hind Abaitanik Vidyalay" a school for children from underprivileged background for the last decade. This 22 year old school has 160 students between the ages of 4 to 12 years. This premise also houses a skill development center to impart vocational training to Senior girls between the ages of 16 to 26 years. This gives them a sense of dignity and better earning opportunity. There are 8 trained teachers to teach the children. Mine Line provides free books and stationery to the students every year. Mine Line also organizes Cultural activities, The Annual Sports Day and Yearly Excursions for the students.



" we bring them home safely..."



Mine Line Pvt. Ltd.

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