

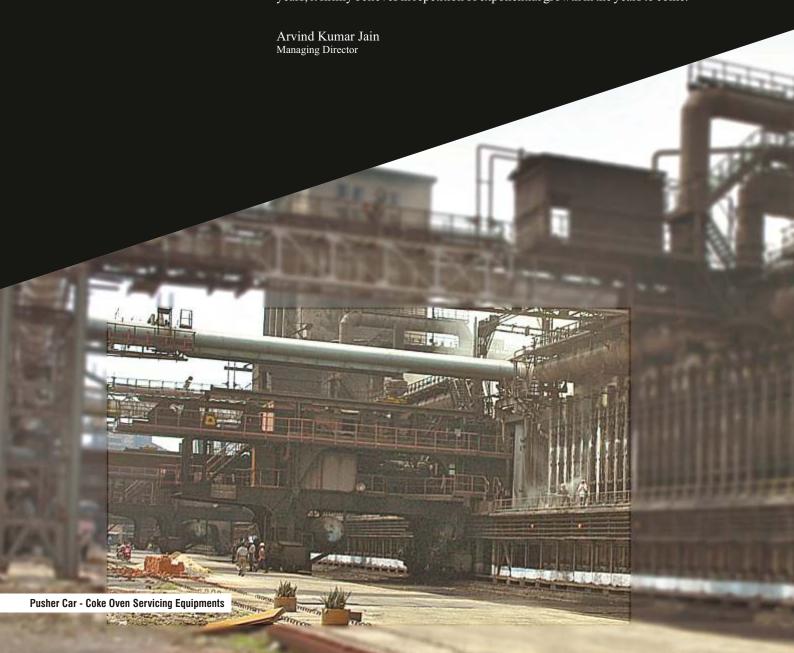


### Bhilai Engineering Corporation Limited

Bhilai Engineering Corporation Limited (BEC) is committed to the Delivery of Quality Castings, Equipments, Machined parts through dedication and competence. BEC has adapted the Group's vision of Ethical and Professional Business Practices and enjoys an enviable Customer Trust. Riding on the trust vested by its illustrious customers, the company has been steadily increasing its production capacity and widening its product range. We have identified Export as a powerful tool to strengthen our Technological Talents and heighten competitiveness while at the same time moving our products up the value chain.

The growth in Indian Engineering Industries has opened up big challenges for the BEC team - The steady increase in Output and Delivery, the growing stress of Incremental Quality, the compulsion of Just in Time delivery and Speedy Product Development. It offers new opportunities to compete, succeed and lead. The stresses of rapid growth coupled with rising quality standards have only reinforced BEC's resolve and its inherent ability to meet customer demands and enhance customer satisfaction.

The future of BEC is bright. In our effort to achieve sustained growth with customer satisfaction we have identified several methods. For instance BEC is currently employing recent innovations that significantly increase transparency, reduce the per unit working hours and the Project Completion Cycle. With the expertise, BEC has gained over the years, it firmly believes in repetition of exponential growth in the years to come.



### Introduction

BHILAI ENGINEERING CORPORATION LTD. since its inception more than 45 years ago, steadily expanded to grow both in size and diversity and stands today with an annual turnover of 50 MILLION USD. It comprises dynamic units that span a wide variety of Businesses from Manufacturing to Projects and Exports.

The Engineering and Project Division of BEC is equipped with Steel Foundry, Medium Machine shop, Heavy Fabrication and Assembly shop including advanced Design and Engineering facilities to undertake jobs from concepts to delivery.

BEC works have five units located in Raipur and Bhilai cities of Chhattisgarh State. To facilitate and support various projects and maintain and develop corporate relations there are 4 full-fledged Regional Offices in Delhi, Mumbai, Kolkata and Chennai and 5 site offices at Rourkela, Ranchi, Durgapur, Bokaro and Vizag. These offices are equipped with all the modern communication system, ERP System and Infrastructure facilities.

Specialized manpower is the backbone of BEC comprising more than 1350 highly experienced workforce delivering best services for customer satisfaction and mutual business co-operation.

The aggregate capacity of fabrication and assembling are 25000 TPA, besides iron and steel castings with aggregate capacity of 10,000 TPA.

BEC undertakes total project implementation including Mechanical, Structural, Electrical and Civil jobs. The driving force in every case has been singular – the urge towards greater technical excellence and more advanced technology – to stay always a step ahead of time.

- ◆ Incorporated in the year 1960
- ★ ISO 9001:2000 Certified Foundry
- ♣ Specialist in Engineering for the Steel, Mines, Railways, Ports, Non Conventional Energy Sources, Cement, Power Industries from intricate castings in custom-made steels to giant fabrication projects
- Diversified indigenous and overseas suppliers of critical components to mammoth system incorporating sophisticated technology
- ♦ Star Export House
- → Pioneers in Coke Oven Projects
- → Global Presence



### **Indian Space Research Organization**

Fabrication and erection of 4000MT of Umblical Tower, Horizontal Sliding Door and Vehicle Assembly Building for 2nd Launch Pad at ISRO, Sriharikota, Andhra Pradesh, India.

Landmarks

2nd Launch Pad - ISRO Sriharikota

### <u>Coke Oven Servicing Machines Equipments - Mittal Steel, S.A.</u>

BEC is one of the handful of specialist with the technological capability of manufacturing sophisticated Coke Oven Servicing Machinery and Rebuilding of Coke Ovens.

For modernization of Coke Oven Batteries BEC has collaborated with Giprokoks and KB "Koksokhimmash", the leading technology supplier and equipment designer of Ukraine.



### **Durgapur Steel Plant**

Fabrication, supply of Blast Furnace and Sinter Plant Equipments to the tune of 22,000 MT for DSP, Durgapur, West Bengal, India.

### **Northern Coal Fields Limited**

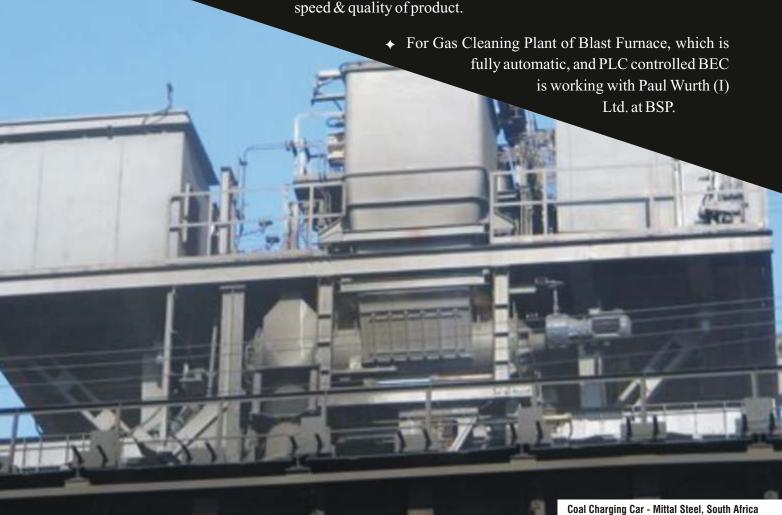
Site, Fabrication, erection and commissioning of 6000MT 3 nos. Walking Dragline for Northern Coal Fields Limited, Singrauli, Uttar Pradesh, India

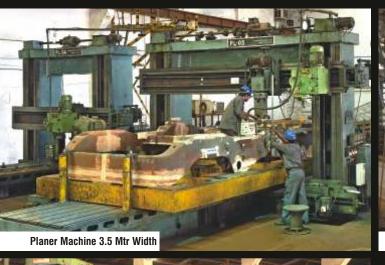




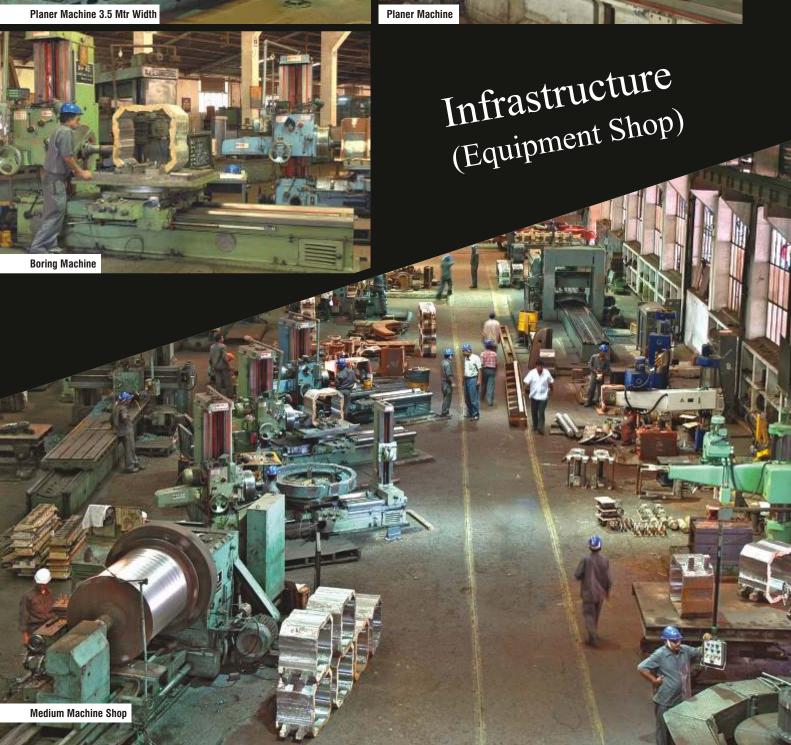
### Collaborations

- With KBK, Ukraine for modern coke oven machines such as Coke Guide Cars with Draft Hood, Land Based Pushing Emission Control System, Quenching car with combined quenching, Zero Leak Coke Oven Doors. Earlier had successful Technology Transfer from HKC, now under M/s Krupp Udhe, Germany for design of all Coke Oven Machines.
- ♦ With McKeown, USA BEC has supplied Modern Coke Oven Machines to South Africa, Mexico, etc.
  - ♦ Wire Rod Mill Modernization being the latest development in Projects, BEC is collaborating with Morgarddshammer AB, Sweden. This will increase rolling speed & quality of product.

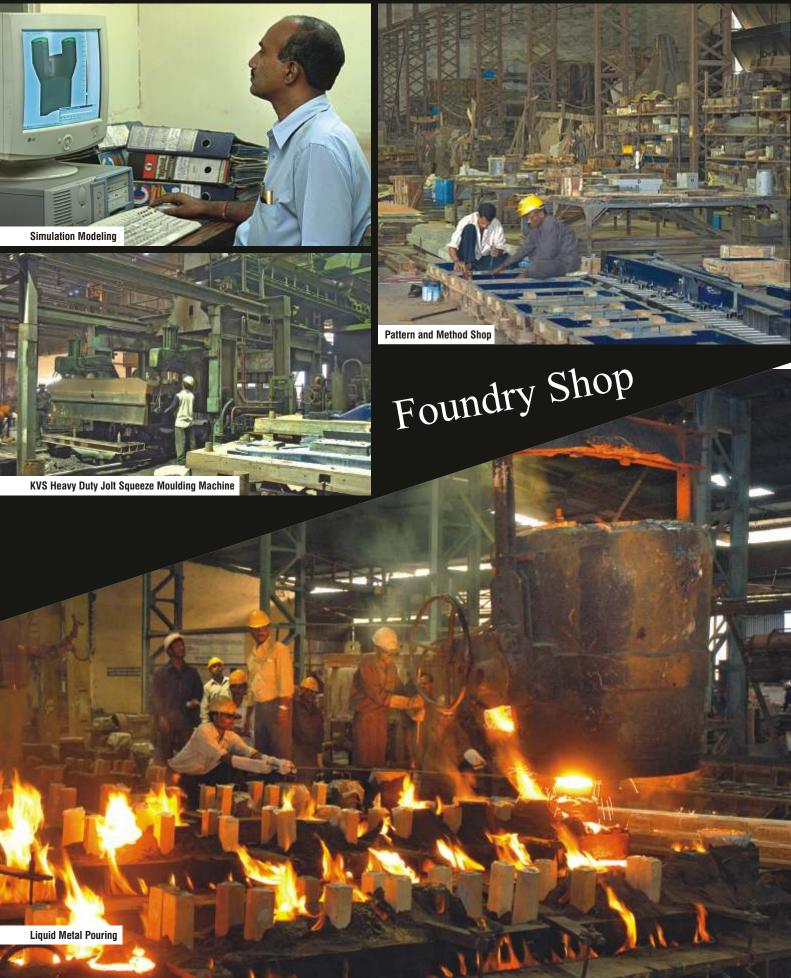












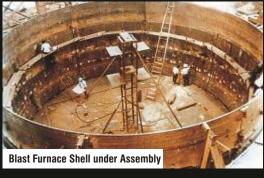






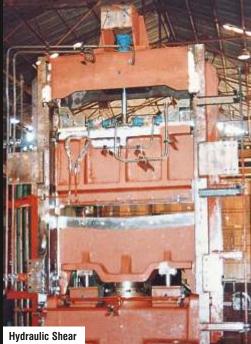


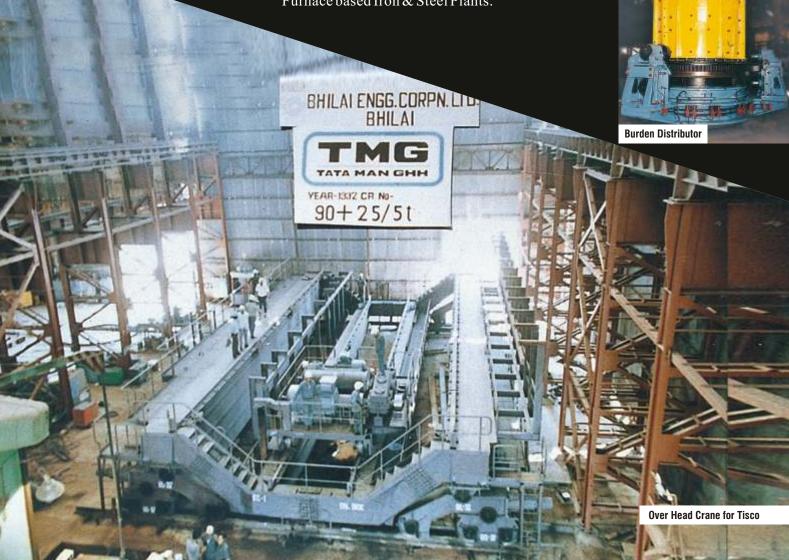






BEC is one of the foremost specialist in engineering for the steel industry with supply ranging from intricate casting in custom made steels to giant fabrication projects. BEC's engineering has won the trust of all major steelmakers in India and across the world including integrated steel giants like SAIL, TISCO, RINL and Mini/Small Blast Furnace based Iron & Steel Plants.





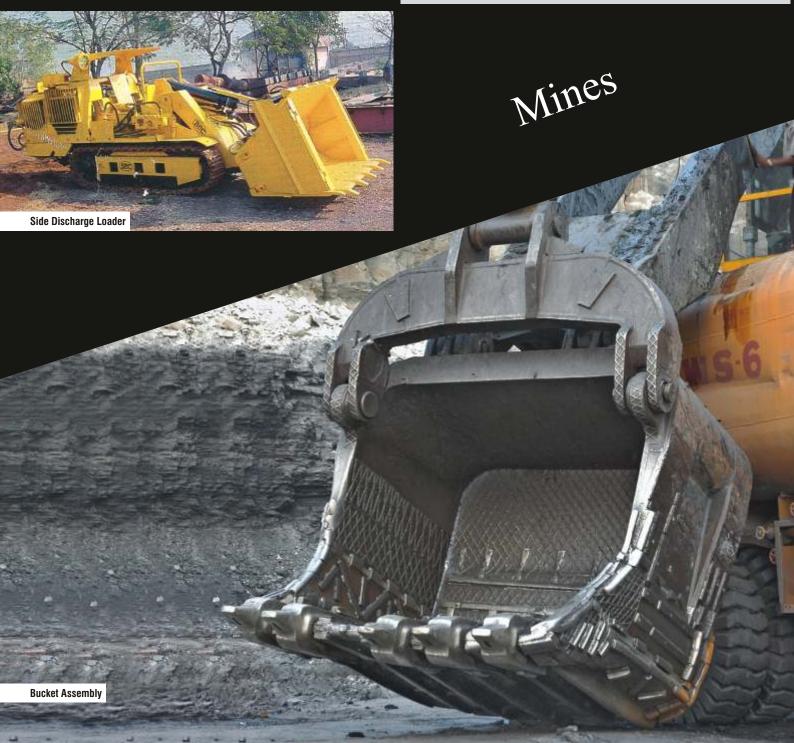
A team of highly qualified professionals through which we offer good range of products for Coal, Iron and Non Ferrous mining sector backs up the present infrastructure of BEC.

In the decade old experience in computer aided design (CAD) that we have had with users through close coordination, we take pride in having developed complete range of Shovel Buckets for the Indian Mining industry with successful import substitution.

The machinery division of BEC has successfully supplied Feeder Breaker and Side Discharge Loaders.

The spares for Buckets, Track pads, Liners for Crusher have given acceptable performance in different geological situations.







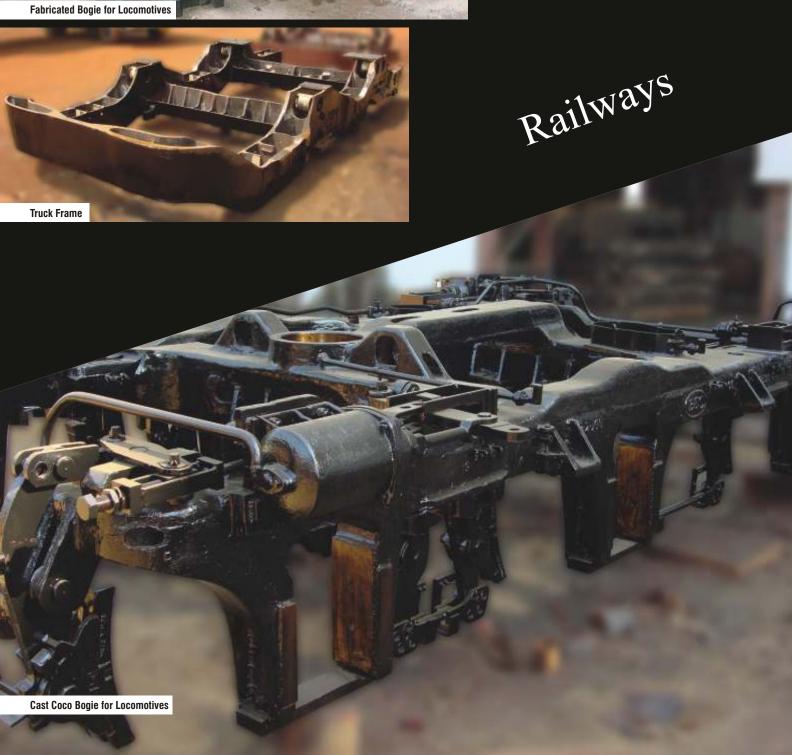






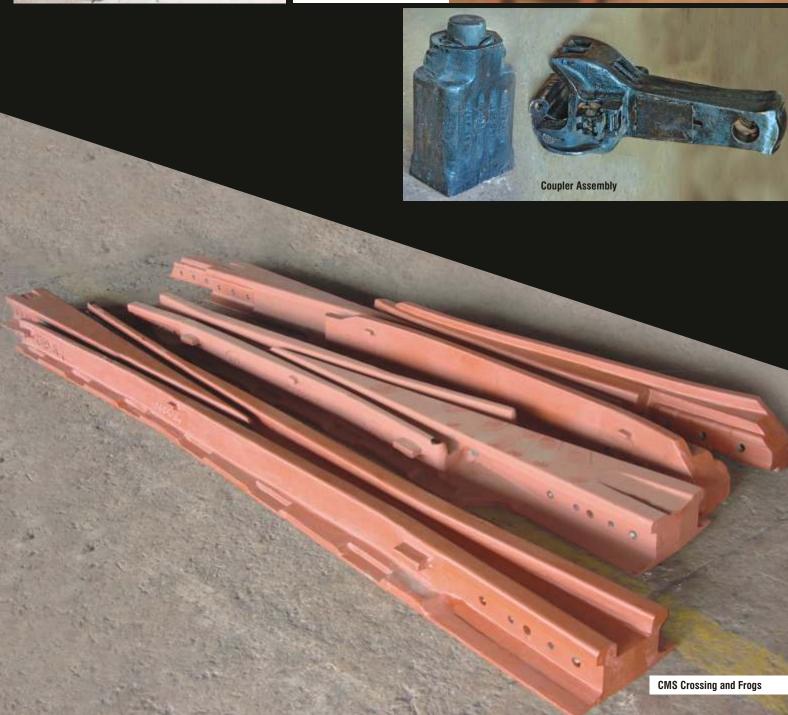


BEC's product range for railway sector includes coco bogie and sub assemblies for locomotives, freight cars, under carriage assemblies, centre buffer coupler & draft gear for wagons / locomotives and cast manganese steel crossings for tracks.









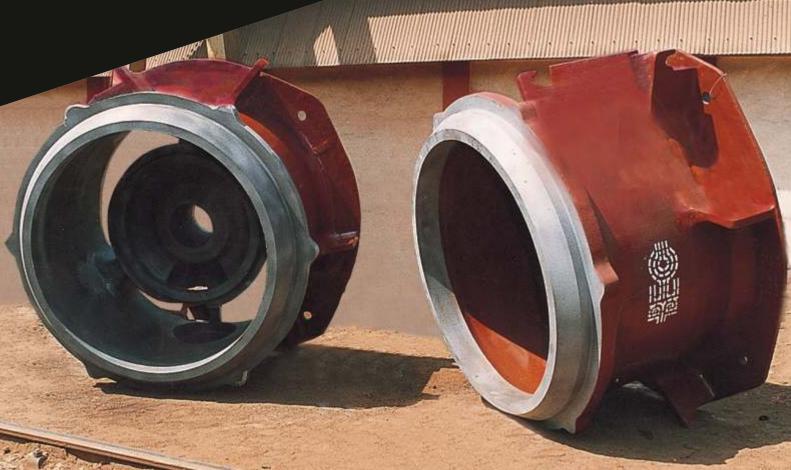
BEC has proved itself as manufacturers and suppliers of casting to various countries such as USA, Canada, Austria, Ukraine, Kenya and Brazil for Railways, Mines and Aluminum Plants.

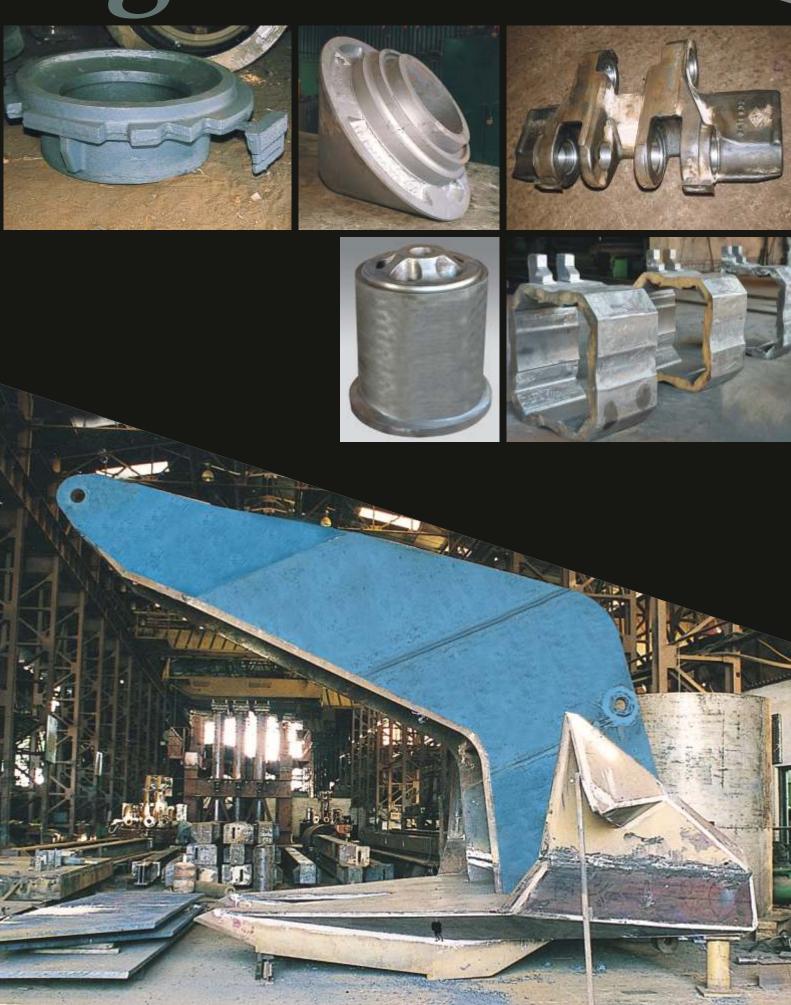






Exports



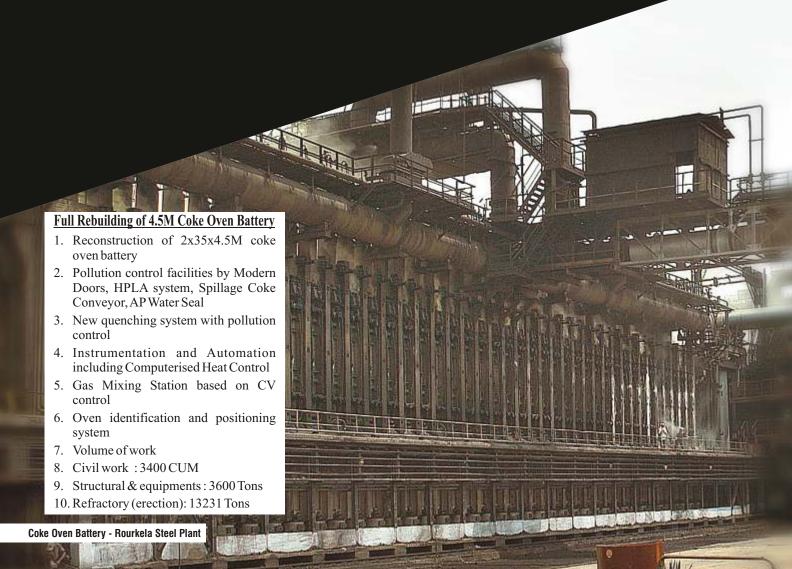


### Pusher Car with Modern Facilities

- ♦ Single spot, Hydraulic, PLC Control & VVVF Driver
- ♦ Leveller muff with air curtain
- ♦ Leveller door frame cleaning
- ♦ Door & frame cleaners
- → Device for vertical compensation
- ♦ Spillage coke removal
- ♦ Counter thrust device



### projects





### Coal Charging Car Modern Facilities

- → Single spot and PLC controlled
- ◆ Screw feeder drive by VVVF drive for controlling the speed as per charging requirement
- → Telescope of specially designed 3 piece unit. It helps to engage the spout with the charging hole with misalignment upto 20mm (+ 10mm) and to avoid emission of smoke during charging
- ♦ Charge lid and frame cleaners

### Guide Car Modern Facilities

- → Multispot and PLC controlled
- → Incorporation of door and door frame cleaners
- ◆ Compatible for operation of the Pushing Emission Control System (PECS) along with the hood car
- ◆ Vertical and horizontal compensation of door extractor
- ◆ The Coke Guide Car Alignment with an accuracy of +5 mm

### Improved Features in Coke Oven Battery

- Zero Leak Diaphragm Type Doors
- ◆ Stand pipes with water sealed cap
- ◆ Catenary system for power lines of charging car and guide car
- Quenching Tower Dust suppression
- Skip hoist for collection and charging of leveller coal into oven
- ◆ Gas Mixing Station Based on continuous CV control
- ✦ HPLA system for 'on-main' charging
- Computersied heat control system

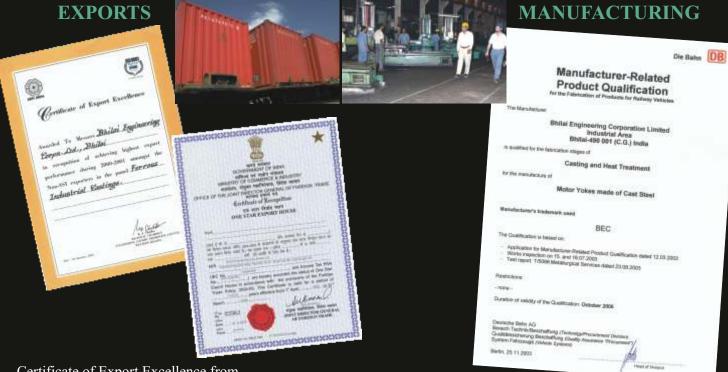


### Wind Mill Towers & Other Sectors





### Recognitions



Certificate of Export Excellence from Engineering Export Promotion Council, India

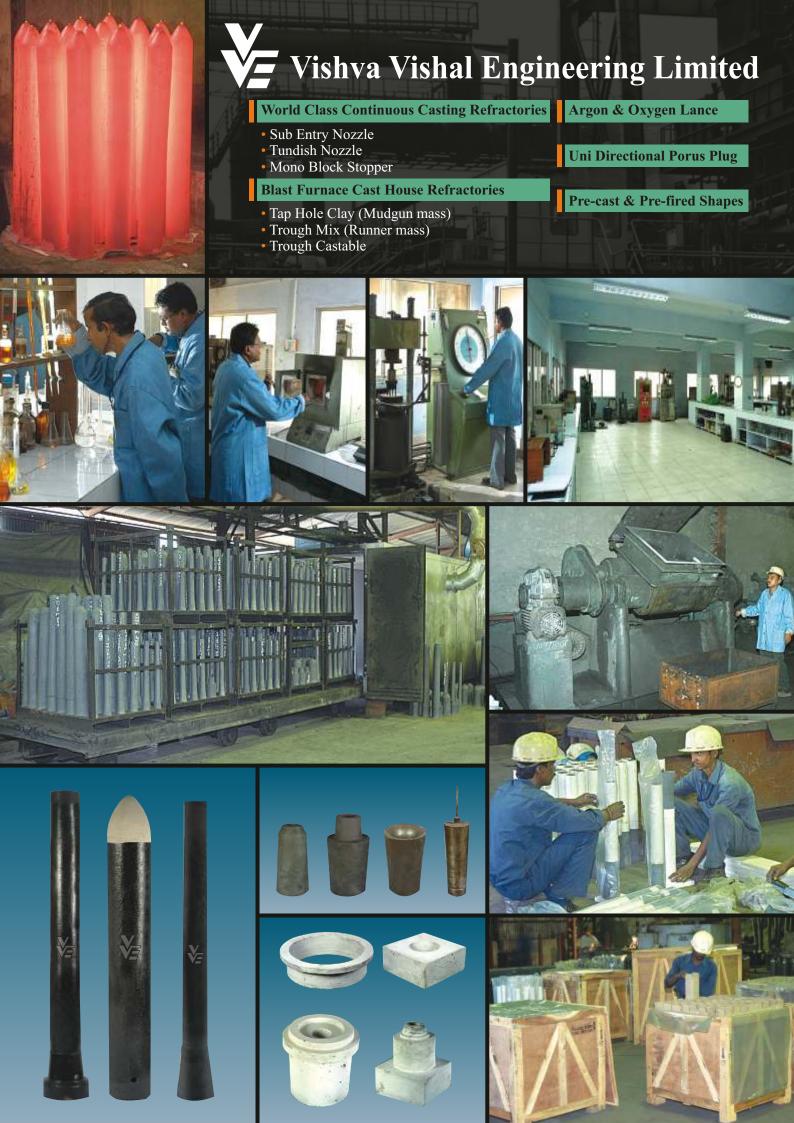
One Star Export House certified by Ministry of Commerce & Industry, Govt. of India

Railway Vehicle Product Qualification Certification from Die Bahn, Germany



ISO 9001:2000 Foundry Certified from Lloyd's Register Quality Assurance, India

Class A Foundry Certification by Research, Designs and Standards Organization, Ministry of Railways, India



### BEC Bhilai H.O. and Works

Nearest Airport : Raipur • Nearest Port (ICD) : Nagpur • Railway Station : Durg







### Head Office & Bhilai Works

Hathkhoj Village, Industrial Area, Bhilai - 490 026, Dist. Durg, Chhattisgarh, India

Tel. +91-788-2285001 to 2285006 • Fax +91-788-2285499, 2381140

Email becinfo@bec-group.com • Web www.bec-group.com

### **Regional Offices**

### New Delhi

BEC House, 13, Masjid Moth, Local Shopping Centre, New Delhi - 110 048, India **Tel.** +91-11-29212857, 29227142, 29227150 • **Fax** +91-11-29229076, 41639279

### Mumbai

31, Maker Chamber-II, 3rd Floor, Nariman Point, Mumbai - 400 021, Maharashtra, India **Tel.** +91-22-22883768, 22831724, 22844208 • **Fax** +91-22-22873611

### Kolkata

4B, Little Russel Street, 2nd Floor, Kolkata - 700 071, West Bengal, India **Tel.** +91-33-22823226, 22827606, 22823372 • **Fax** +91-33-22827061

### Chennai