



MINING EQUIPMENT MANUFACTURING INDUSTRY

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GUEST ARTICLE

BEML LIMITED is a multi-technology company, operating under 3 distinct business verticals; Mining & Construction, Rail & Metro and Defence & Aerospace, manufacturing high quality products for diverse sectors of economy such as Mining (Coal, Iron Ore & Other Minerals), Steel, Cement, Power, Construction, Irrigation, Road, besides supply to Defence & Aerospace and Rail & Metro.

BEML has its manufacturing plants at Bangalore, Mysore, KGF and Palakkad. Products are serviced through Nationwide Marketing Network. It has emerged as the frontrunner in heavy engineering industry with a track record of growth and revenues for more than over five decades.

Mining Equipment Manufacturing Industry

Mining as a strategic sector is of great significance to Indian economy. Our country is endowed with huge resources of many metallic and non-metallic minerals. Government of India set a target of \$5 trillion economy by 2024-25. The future prospects for Mining & Metals industry in India are very encouraging as infrastructure development work is going on at a rapid pace. The total capital expenditure in infrastructure sectors in India during fiscals 2020 to 2025 is projected at ₹.



111 Lakh Crore.

With implementation of the future development plans of the government, we expect there will be continuous growth in Mining and Metals sector, which in turn will increase the demand for technologically advanced equipment.

BEML's position in Mining Equipment industry

BEML dominates the Mining equipment industry with more than 55% share since the last 5 decades. Keeping in mind the increase in demand for equipment in mining sector, BEML is expanding its product range as per the requirement of the industry.

Also, coal mining companies are going for higher capacity mining equipment to increase the production and productivity. BEML is continuously developing and adopting latest technologies on mining equipment as per the market requirements.

Government's push for private participation in mining sector is to further increase the production and to reduce imports and this will boost the demand for latest technology mining equipment in future.

Matching with the revolutionary changes of the Mining industry BEML introduced latest technology and superior features in their equipment through R&D





initiatives, which includes:

- Introduction of higher capacity mining equipment to increase the productivity.
- Introduction of latest technologies for ease of operations
- Introduction of additional safety features
- Introduction environmentally friendly engines and equipment
- Advanced training techniques for skill development of operators through simulators.

BEML on ESG (Environment, Social & Governance):

To set and achieve goals of ESG, BEML has indigenously developed and manufactured BE1800E Electric Hydraulic Excavator (180T class) which is environmentally friendly. The equipment is successfully working in coal mines.

BEML is also manufacturing BE1000E-1 Electric Hydraulic Excavator (100T Class), which is also an environmentally friendly equipment and working successfully in coal mines.

As per requirement BEML is introducing emission norms compliant BSIV engines on wheel mounted construction equipment.

- BL200-1 & BL30-1 Wheel Loaders
- BG405A & BG605I Motor Graders

BEML emphasis to use renewable energy resources such as wind and solar for energy generation and captive consumption. During the year 2020-21, 94% of energy requirements was met through these sources.

The Company has well established mechanism for disposal of waste generated during the manufacturing stages. Sewage treatment plants are installed to recycle the water which is being used for production purposes.

BEML's Contribution in Make in India & 'Atmanirbhar Bharat'

With the Government's drive on 'Make in India' and 'Atmanirbhar Bharat' mission, a lot of improvements are made in the domestic mining equipment manufacturing industry. BEML have indigenously developed and manufactured the following higher capacity mining equipment to support the above mission:

- BH205E Electric Dump Truck (186 MT payload)

- BH150E Electric Dump Truck (136 MT payload)
- BE1800E Electric Hydraulic Excavator – environmentally friendly equipment (180 T class)
- BE1800D Hydraulic Excavator (180 T class)
- BD475 Crawler Dozer – 850 HP class

Some of the equipment have been supplied under trial orders and are working satisfactorily in the coal mines. Efforts are on to further indigenously develop and manufacture higher capacity mining equipment like Rope Shovel and Draglines.

BEML echoes 'Local to Vocal'

BEML is developing and manufacturing various latest technology Mining & Construction equipment to achieve the following objectives:

- Reduce dependency on imported equipment
- Technology & Skill development in the country
- Local employment generation
- Contribute to Country's GDP
- Saving of precious foreign exchange
- Self-reliant India

BEML is working towards 'Zero Import' policy and efforts are on for indigenous development of items which are being imported and therefore attain self – reliance.

Apart of this, BEML is adopting the state-of-the-art technologies for design, development and manufacture of mining equipment; which are at par with global standards and suitable for domestic mining conditions.

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Shri M V Rajasekhar
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