



## Towards Atma-Nirbhar Bharat

BEML's New Industrial Design Center | Launched a Range of Mining & Defence Equipment | Signed MoUs



Hon'ble Raksha Mantri with other distinguished guests at the virtual programme

In line with the Prime Minister's initiatives on self-reliance 'Atmanirbhar Bharat', BEML has taken some significant steps to push the boundaries of indigenous products and technologies.

At the virtual ceremony held on August 10<sup>th</sup> 2020, Shri Rajnath Singh, Hon'ble Defence Minister, inaugurated the Industrial Design Center (IDC) located at BEML Complex, Bangalore. The inauguration was done in the presence of Shri Shripad Naik, Hon'ble RRM, Dr. Ajay

Kumar, Secretary Defence, Gol, General Bipin Rawat, Chief of Defence Staff, Shri Raj Kumar, Secretary Defence (Production) amongst others.

Speaking on the occasion Hon'ble Raksha Mantri Shri Rajnath Singh said, "We are celebrating the 'Atmanirbharta' week to focus on modernisation of defence infrastructure, creation of new manufacturing capability and investments in the sector. BEML's Industrial Design Centre will propel innovative thinking for the future in this regard." The Design center will focus on implementing Industrial Design & Human Factors in all BEML Products as a part of developmental strategies for setting the global benchmarking of Industrial Design and Ergonomics. It will be integrated with R&D and manufacturing, be a hub for exchange of creative ideas & concepts and provide the 'Design-edge' for better Market and User acceptance.

The Designers, graduated from leading national level Institutes such as NID and IIT, at IDC are carrying out a global benchmarking study by means of various research. IDC will mainly focus on enhancing the look and feel of BEML Products, Operators' ease of work and comfort as per global standards. It will harness the latest technologies like AI and Gesture Recognition and engineering resources for self-reliance, while being sensitive towards 'Eco', 'Green' &

'Sustainability'. The manufacturing implementations of these strategies will be made possible with the in-house capabilities available with BEML, as well as through the company's network of MSMEs.

Post the inauguration Dr. D.K. Hota, CMD, BEML said, "BEML is a highly diversified company and invested in developing in-house capabilities of Industrial Design & Human Factors, Engineering & Intellectual Properties. This will address the 'design' facet of products - presently dependent on foreign facilities and move us towards self-reliance on product design."



View of Industrial Design Center

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CMD BEML in conversation with Hon'ble R.M.





## Raksha Mantri Launches BEML's Indigenous Products

**S**hri Rajnath Singh, Hon'ble Raksha Mantri, on 13<sup>th</sup> August 2020 launched a range of advanced Mining and Defence equipment, which are designed and developed indigenously. These include the BH150E-150 Ton Electric Dump Truck, BE1800E-180 Ton Electrical Excavator; BD50HST Heli-Portable Dozer and Medium Bullet Proof Vehicle 'GAUR' (MBPV).

While congratulating BEML for their support to achieve 'Atmanirbhar Bharat', he added, "Among the BEML products the 150 Ton electric Dump Truck, 180 Ton Electrical Excavator built with swadeshi technology will cater to the requirements of the mining industry. The Medium Bullet Proof Vehicle 'GAUR' (MBPV) is an extremely useful product that is worth mentioning."

While presenting these products to the Hon'ble Raksha Mantri, Dr. Deepak Kumar Hota, CMD, BEML said, "At a time when the government is promoting 'Atmanirbharta', BEML is leading the way by introducing indigenously designed & developed products that will not only contribute to the country's GDP but also ensure savings of precious foreign exchange. These products re-emphasize BEML's commitment towards 'Make in India' and self-reliance."



150 T Dump Truck



BE 1800E Excavator



Medium Bullet Proof Vehicle



Heli-Portable Dozer

## Signs MoU with IIT, Kanpur & NASSCOM-CoE

MoUs

**T**o leverage technology for Atmanirbhar Bharat BEML teamed up with IIT - Kanpur in the field of UAV and NASSCOM - CoE (Centre of Excellence) for AI & related areas in the virtual presence of Shri Rajnath Singh, Hon'ble Raksha Mantri, on 14<sup>th</sup> August 2020. Gen. Bipin Rawat, PVSM, Chief of Defence Staff, Dr. Ajay Kumar, Secretary (Defence), Shri Rajkumar, Secretary (Defence Production) and other senior officials were present on the occasion. Dr. Deepak Kumar Hota, CMD BEML exchanged the signed copies with Professor A R Harish, Dean, IIT Kanpur and Shri Sanjeev Malhotra, CEO NASSCOM after signing the MoUs.

BEML will collaborate with IIT Kanpur for joint indigenous development of Pilotless Target Aircraft (PTA) and tactical Unmanned Aerial Vehicles (UAV). The jointly developed products would substitute the currently imported UAVs & PTAs and aims to achieve self-reliance at a reduced cost. This will enable BEML to achieve a quantum jump in Defence & Aerospace Business and provide a big thrust in 'Atmanirbharta' in the Defence Sector.

BEML - NASSCOM tie-up aims at technical support for implementation of Artificial Intelligence (AI) and Internet of Things (IoT) in BEML products and to set up incubation centre for start-ups with a view to achieve self-reliance



CMD BEML exchanging MoU copies with CEO NASSCOM

and foster innovation & technological development in Defence & Aerospace by engaging various Industries including MSMEs, start-ups, individual innovators, R&D institutes and academia.

Over the years, AI has been driving business in multiple ways such as increased customer engagement, optimizing training costs, providing personalized customer support, deriving reams of data on customer behaviour to streamline business process optimization and provide round-the-clock customer support services.





## Order for Supply of High Mobility Vehicles



**B**EML received a prestigious order from MoD for supply of 330 nos. High Mobility Vehicles, for Pinaka Project at an approximate cost of ₹ 842 crore.

Pinaka is a multi-barrel rocket launcher developed indigenously for the Indian Army and produced in India by involving Public Sector and Private Sector Defence

Industries. The multi-barrel launcher system is mounted on the highly rugged BEML truck, much acclaimed for its off-road mobility and would provide the Indian Army with vital manoeuvrability on the battlefield.

will further enhance the combat capabilities of the Indian Army. BEML signifies the true spirit and be an enabler for 'Atmanirbhar Bharat', 'said Dr. Deepak Kumar Hota, CMD, BEML Limited.

The equipment will be manufactured at BEML's Palakkad Plant in Kerala and would supply the vehicle platform to MoD in a span of three years. "We are proud to support MoD under the 'Make in India' project for supply of 330 nos BEML High Mobility Vehicles for the Pinaka regiments that

This order is a big boost to BEML, involved in the manufacturing of the High Mobility vehicles with superior features under the 'Make in India' programme, thus demonstrating BEML's efforts under the 'Aatmanirbhar Bharat' initiative.

## Order for Mine Ploughs

**B**EML received order from MoD for supply of 1,512 Track Width Mine Ploughs (TWMP) for T-90 Tanks at an approximate cost of ₹ 557 Crore. Under 'Make in India' policy the contract has Buy and Make (Indian) categorisation with a minimum of 50 % indigenous content in make portion of the contract.

The system will be manufactured at BEML facilities with the help of M/s. Pearson Engineering, UK. Out of 1,512 nos. Mine plough, BEML will supply 100 nos. within 12 months,

250 nos in subsequent years and order will be completed within 7 years.

These mine ploughs will be fitted on T-90 Tanks of Indian Armoured Corps which will facilitate individual mobility to Tanks while negotiating mine fields. Mobility of the Tank Fleet will enhance manifold, which in turn would extend the reach of Armoured Formation deep into enemy territory without becoming mine causality.

This De-mine equipment is time tested for different soil conditions in Indian desert



and customized for Indian operations .

"BEML is proud to be associated with MoD to enhance the combat capability of the Indian Army. This is another example of company's capability to meet the specific requirements of Indian armed forces", said Dr. Deepak Kumar Hota.





## BE 1800E at SECL Project

**B**EML has achieved a break through for supply of 5 nos. of BE1800E Electro Hydraulic Excavator to South Eastern Coal Fields Limited (SECL) for deployment in their Kusmunda and Dipka open cast mine Projects.

At a function held at Kusmunda on 20<sup>th</sup> Aug, 2020, Shri Pramod Agarwal, IAS, Chairman Coal India Ltd., formally inaugurated the Excavator. Shri AP Panda, CMD SECL, Dr. R S Jha Director (Projects), Shri RK Nigam, Director (Technical) and senior officials of SECL and BEML attended the programme.

This is a single largest order In this segment and it may be recalled that BEML supplied first 1800E Excavator to SCCL Ramagudum project 3 years ago and equipment is successfully working with 90% availability.



Shri Pramod Agarwal, IAS, Chairman, CIL, seen with Shri AP Panda CMD, SECL and other Senior officials during the commissioning of BEML BE1800E Excavator

BEML is looking forward to a long-term association with SECL, in helping them deliver their various projects timely and cost effectively.

These equipment are indigenously designed and developed by BEML and are in line with Atma Nirbharta programme.

## BEML's Machines operating at Border Roads

**A**midst the continuing standoff between the Indian Army and Chinese PLA, Govt. of India decided to fast-track the road projects along the border with China.

It is a matter of pride that BEML's fleet

of machines viz., BD-50, BD-80 Dozer and BE220 excavators are being used by Border Road Organization round the clock to make way, to clear debris, etc. To support this BEML's Ladakh Office is extending after-sales-services continuously, so as to

maintain more than 95% equipment availability.

The project is aimed to provide critical connectivity to strategic forward areas.



BEML's machines operating at border roads





## BEML Aero Bridges at Chandigarh International Airport



Hon'ble Union Civil Aviation Minister inaugurating the Passenger Boarding Bridges.

It was a proud moment for BEML with commissioning of two numbers of Passenger Boarding Bridges at Chandigarh International Airport (CHIAL) on 3<sup>rd</sup> Oct 2020. At a

function held at Chandigarh Airport, Shri Hardeep Singh Puri, Hon'ble Union Civil Aviation Minister inaugurated the passenger boarding bridges.

The tunnels of these Passenger Boarding Bridges have been manufactured at BEML, Railcoach Unit, KGF.

These bridges are convenient for passengers for all ages especially senior citizens and those on wheel chairs, as they face hassle free in boarding or deboarding.



Aero Bridge

## Customized Electrical Maintenance Vehicles to DMRC

For the first time in India, BEML has designed and developed Catenary Maintenance Vehicle for Rail routes of Metros.

BEML has supplied these CMVs to Delhi Metro Rail Corporation. These vehicles are meant for periodic inspection, patrolling and maintenance of overhead equipment on electrified broad/standard gauge rail route of metros. The vehicle is used to attend sites of breakdown of overhead equipment, capable of erecting and restoration of damaged small lengths of catenary and contact wires. The train has compressed air brakes with tread break unit applied

on all wheels. Parking breaks are spring loaded and will be operated electrically and pneumatically.



The vehicle is equipped with driver cabins at both ends, material cabin, lifting and swirling hydraulic platform,

crane with inter changeable basket, 40 KVA DG sets, cable drum mounting brackets, OHE mast guide device, roof mounted radiator and pantograph for checking OHE parameters, intercom facility between driver cab and lifting platform and CCTV for close monitoring.

DMRC is using these vehicles to carry out the maintenance work and are able to operate metro train with zero defects.

BEML is expected to generate more orders for these CMVs from the Metro Corporations operating in different cities of India to maintain their services in coming days.





## 'Jan Andolan' Campaign on Covid-19'

**B**EML across all its units took a pledge to follow the guidelines and norms issued in the wake of COVID-19.

Dr Deepak Kumar Hota, CMD, BEML administered the pledge to BEML Directors, Officers and employees at BEML Corporate Office. He exhorted everyone to be alert and follow the mandatory guidelines: to maintain distance, wear masks, and regularly wash hands. "Our effort is to

spread awareness among all who in turn would further pass it on to their families and in the society," he added.

BEML is widely publicizing good health practices by displaying banners and other related information materials and social media platforms are being used to spread awareness about precautionary measures to stay safe & healthy.

Apart from this, BEML implemented the Standard Operating Procedures (SoP)



to provide guidelines to eliminate the chain of corona virus and to resume work in its factories and townships.



Through Twitter



Online Campaign



Poster Campaign

## Shri Amit Banerjee, Director (Rail & Metro Business)

**S**hri Amit Banerjee has been appointed as Director (Rail & Metro Business) and Member on the Board of BEML Limited. He has assumed charge on 9<sup>th</sup> October 2020. Shri Banerjee is a graduate in Mechanical Engineering from IIT (BHU), Varanasi. In his professional career spanning over three decades in BEML, he has worked in R&D and manufacturing functions. His experience involves design & development of various products like SSEMU, Metro cars, Catenary



Maintenance Vehicle etc. Under his guidance, BEML received the Raksha Mantri Award for Design Effort towards Design & Development of Austenitic Stainless Steel EMU & Intermediate metro cars for Delhi Metro. He has played a significant role in phased indigenization of Rolling Stock aggregates. Prior to assuming the present position, Shri Banerjee was Executive Director (Rail & Metro).

He is married to Smt. Sumita Banerjee, who is homemaker and has a son, Chi. Avik Banerjee who is working in USA.

### APPOINTMENT





## Wins Equipment India Awards



**B** EML received the prestigious '8<sup>TH</sup> Annual Equipment India Awards 2020' in 'Best Seller in Crawler Dozers' & 'Best Seller in Rigid Dump Truck' categories at a virtual ceremony held on 15<sup>th</sup> Oct 2020.

The awards were given in recognition to the best selling Companies in various construction equipment categories. The winners are selected by an eminent jury panel comprising professionals from across the value chain of construction equipment Industry.

While thanking the Jury and Equipment India for these awards, Dr. Deepak Kumar Hota, CMD BEML, said "These awards are a tribute to the valuable contribution BEML is making towards Atmanirbhar Bharat".

## SKOCH Award for Containing Covid-19



Dr. Deepak Kumar Hota, CMD, BEML received the prestigious SKOCH Award in Gold Category, for outstanding work in response to contain Covid-19 at a virtual award ceremony held at New Delhi.

SKOCH Foundation recognizes

People, Project and Institutions that go the extra mile to make India a better nation. To combat Covid-19, BEML implemented various Standard operating Procedures (SoP) as advised by the government such as regular sanitisation, maintaining social distance and offering sanitiser at work places, distributing mask & medical kits through BEML Women's Association.

BEML also opened Covid Care Center for the employees and their families for the treatment of those affected by the virus. BEML propagated good health practices by putting up hoardings, banners and other related information materials. Social Media platforms were used to spread awareness about precautionary measures to stay safe & healthy. Apart from this, BEML through its SoP provided guidelines to break the chain of corona virus and to resume work in its plants and townships. The award was given to BEML on the evaluation

of Peer & Jury and number of votes received.

## "Digital PSU" Award 2020

BEML has been awarded with Digital PSU Award in the 7<sup>th</sup> Governance Now PSU 2020. The award is for various Digital initiatives viz BEML eConnect Applications File Lifecycle Management, Customer Complaint Handling System, Cyber Security, HR Portal, SRM e-Procurement & Enterprise Resource Planning (ERP).







Dr. Deepak Kumar Hota, CMD inaugurating the second phase of Cauvery water supply to BEML Mysore complex on 2<sup>nd</sup> October 2020.



Mr. M A Rajeev, IAS, Commissioner, MMRDA seen with CMD and others during his visit to BEML Bangalore complex to see the progress made on Mumbai Metro cars on 4<sup>th</sup> September 2020.



Lt. Gen. DS Ahuja, AVSM, Chief of Staff, Southern command in conversation with CMD at BEML Soudha on 16<sup>th</sup> July 2020



Lt. Gen. Arun, YSM, SM, VSM, Artillery, in discussion with CMD at BEML Soudha on 31<sup>st</sup> Aug 2020. Also seen Director (M&C)



Ajaz Ahmed, GM (Excavation) CCL, Ranchi in discussion with Mr. B. Shankar, ED, during his visit to BEML KGF Complex recently



Maj. Gen. Sanjeev Singh, ADGQA (Vehicle) and team at BEML Mysore Complex on 9<sup>th</sup> July 2020 seen with Mr. H.S. Ranganath, ED (CP&M) (O)