



## Hon'ble Raksha Mantri Unveils India's First Indigenously Designed & Developed Driverless Metro Car

**'In the true spirit of 'ATMANIRBHAR BHARAT''**

Shri Rajnath Singh, Hon'ble Raksha Mantri unveiled state-of-the-art 'Driverless Metro Car' for Mumbai Metropolitan Region Development Authority (MMRDA) at a function held at BEML's Bangalore Complex in the presence of Shri Raj Kumar IAS, Secretary (Defence Production), Dr. Deepak Kumar Hota, Chairman & Managing Director, BEML, host of senior officials, executives and employees.

At BEML's Bangalore Complex, Shri Singh inspected the Rail Hangars, the array of BEML equipment on display (from its Defence & Aerospace, Mining & Construction and Rail & Metro Divisions) and the newly launched Industrial Design Centre.

Speaking on the occasion, Shri Rajnath Singh said "MMRDA project has 63 per cent indigenous content which will enhance to 75 per cent in next two to three years. This



Hon'ble Raksha Mantri addressing the gathering

reflects Indian Industry's overwhelming response to Hon'ble Prime Minister Shri Narendra Modi's Atma Nirbhar Bharat Abhiyan Call." "This driver-less metro project will act as a source of inspiration to other Indian companies, particularly the

defence industry to help India emerge as a manufacturing hub which, in turn, will fulfill 5 Billion US Dollar defence export target and 25 Billion US Dollar defence industry turn over by 2025. Ministry of Defence has taken a number of steps like introducing Defence Production and Export Promotion Policy (DPEPP) 2020 and new Defence Acquisition Policy, incorporating provisions for purchasing equipment and platforms with more indigenous technology." he added.

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Hon'ble Raksha Mantri with Secretary Defence Production, CMD, Directors & Senior Level Officials of BEML after unveiling the Metro Car

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Hon'ble RM witnessing inside the Metro Car facilities



Hon'ble RM going around Industrial Design Centre

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Shri Rajnath Singh expressed hope that MMRDA driver-less technology will lead to its expansion into other fields of Defence, such as, tanks and fighter planes in the future. While appreciating BEML, Raksha Mantri termed the company as a true 'Atma Nirbhar Warrior'. He expressed his happiness that the Covid-19 pandemic, which has halted progress across the world, has had almost no impact on the production activities of BEML and DPSUs.

Welcoming Hon'ble Raksha Mantri, Dr. Hota said, "Hon'ble Raksha Mantri's visit to BEML is a true reflection of the unstinted support and encouragement that he is providing. BEML's foray into metro manufacturing has been a defining

moment in the urban transportation scenario in India. With a major market share in the Country in direct competition with well-established international players, BEML has made its mark as the only Indian company in this high technology field."

At the same function, Shri Singh, also virtually launched the Aerospace Assembly Hangar, situated within BEML's Bangalore Complex and unveiled first indigenously manufactured High Mobility Vehicle Cabin by BEML.

Indigenously designed & developed state-of-the-art Driverless Metro trains are being manufactured at BEML's Bangalore Complex.

BEML bagged a total order of 576 cars for MMRDA's MRS1 project, the largest order ever, amidst stiff competition in the presence of international players, the supply is scheduled progressively upto January 2024.

It may be recalled that, BEML opened its Depot office recently at Charkop Metro Depot, MMRDA, Mumbai for commissioning, testing and round the clock services for Driverless Metro cars.

Currently, BEML's order book position looks healthy at over Rs.12,000/- crores and with the Government's push for 'Atma Nirbharta' it may grow further.



Hon'ble RM being briefed on BEML equipment



Executives and Employees attending the programme





EVENT / APPOINTMENT

## Annual Dividend

**B**EML paid an annual dividend of ₹13.50 crs. to the Union Government for the financial year 2019-20.

At a function held in New Delhi on 4<sup>th</sup> January 2021, the final dividend cheque worth of ₹5.62 crs. was handed over by Dr. Deepak Kumar Hota, Chairman & Managing Director, BEML to Sri Rajnath Singh Ji, Hon'ble Raksha Mantri, GoI. This is in addition to interim dividend paid of ₹7.88 crs.

On this occasion, Sri Raj Kumar, IAS,



Secretary, Defence Production, Sri Puneet Agarwal, Joint Secretary (Land System) and other senior officials were also present.

## CMD at Manipal University Convocation



Dr. Deepak Kumar Hota, CMD was the Chief Guest and presented the Degree Awards to the students of Manipal University, Jaipur at a virtual convocation held on 28<sup>th</sup> Nov. 2020.

While congratulating the students for having successfully completed their graduation, he called upon them to come out of fear from human activity due to pandemic. "Coming days will definitely open up new opportunities. Employers are looking for critical intellectual skills apart from university qualifications. Follow role models for inspirations", He said.

About 2500 students received the convocation certificate on the occasion.

## New CVO, BEML



Shri Shrikant Walgad, an IAS officer of the Haryana cadre, presently the Chief Vigilance Officer of Bharat Electronics Limited (BEL), took over the additional charge of the post of Chief Vigilance Officer (CVO) of BEML Limited.

Shri Shrikant Walgad completed his BE in Electronics & Communications from the Karnataka Regional Engineering College (now NIT-K, Surathkal), Mangalore University, in 1986. He also holds a Post Graduate Degree in Public Policy & Management (PGPPM) from IIM-Bangalore. He worked in various capacities, acquiring rich experience in District Administration, Law & Order, Rural & Urban Development and Land Revenue Management.

## Hon'ble RM's Comments on BEML

DATE	15/01/21
NAME	Shri Rajnath Singh
ADDRESS	Defence Minister of India
REMARKS	I paid a visit to BEML to unveil the MRS metro coaches and to inaugurate Aerospace facility and Hrs vehicle cabin. overwhelmed to see the range of products being manufactured by Beml and was equally impressed to see the dedication of officers and employee. BEML is doing an yeoman service to the Nation's growth. I wish the CMD, Shri Deepak Hota and his team a bright and successful future along with the organisation.





NEW ORDERS

## Additional Metro Coaches for MMRDA



MMRDA Metro Car under production

**B**EML has received another contract worth ₹502 cr., for supply of additional 72 coaches

(12 Metro train sets) for line 2B and line 7 of Mumbai Metro Rail Project. The letter of acceptance (LOA) was

issued by Delhi Metro Rail Corporation. With this, the total contract value has increased to ₹4318 cr., from the existing ₹3817 cr.

It may be recalled that, the order was issued by DMRC in reference to the original contract worth ₹3015 Cr. To BEML Limited during Nov. 2018 for supply of 378 coach order (total 63 Trains sets) to Mumbai Metro Region Development authority (MMRDA) for operation on Line 2A and Line 7 of Mumbai Metro Rail Project. In August 2019, DMRC had issued another order worth ₹834 cr., to BEML for supply of 126 coach order (21 Train Set) to MMRDA for upcoming line 2A and 7. Both the lines targeted to open for public during 2021.

## High-Mobility Vehicles for Indian Army Proud to serve Nation under 'Make in India'

**B**EML received a prestigious order from MoD for supply of 330 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.

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 'Aatma

Nirbhar Bharat' initiative. 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 BEML Heavy Duty Trucks for the Pinaka regiments that will further enhance the combat capabilities of the Indian Army. BEML signifies the true spirit and be an enabler for 'Atma Nirbhar Bharat'," said Dr. Deepak Kumar Hota, CMD, BEML Limited.



BEML High-Mobility Vehicle





## Maharashtra Minister Visits BEML

**S**hri Eknath Shinde, Hon'ble Minister for Urban Development and PWD, Maharashtra, visited BEML on 19<sup>th</sup> January 2021 to review the progress with regard to supply of the State-of-the-art 'Driverless' Metro Car to MMRDA, Mumbai.

On arrival, Shri Shinde was warmly greeted by Dr. Deepak Kumar Hota, CMD at Bangalore Complex, along with senior officials. He was taken around the manufacturing facilities and was briefed about the salient features and advance safety measures adopted in the Metro Car.

While talking to BEML News, he said, these Metro Cars will help to reduce road traffic and people can travel safely. I wish to congratulate BEML team for creating a world class Metro Car. He assured all support from Maharashtra Government for utilising BEML's Metro Cars for upcoming new projects.



Dr. Deepak Kumar Hota, CMD, BEML explaining the salient features of Metro Car to Shri Eknath Shinde, Urban Development Minister, Maharashtra.



Hon'ble Minister seen with CMD BEML and other senior officials in front of Metro Car for Mumbai Metro.

## Exim Bank MD visits BEML



Shri David Rasquinha, MD, EXIM Bank seen with BEML Functional Directors and ED's

EXIM Bank serves as a growth engine for Indian Business for a range of products and services. This include import of technology & export product development, export production, export marketing, pre-shipment, post-shipment and overseas investments. They are key players in the promotion of cross border trade and investment.

**S**hri David Rasquinha, MD, EXIM Bank of India visited BEML Bangalore Complex on 19<sup>th</sup> December 2020.. On arrival he was warmly greeted by Directors, Shri Suraj Prakash (Finance), Shri MV Rajasekar (Mining & Construction), Shri Ajit Kumar Srivastav (Defence), Shri Amit Banerjee (Rail & Metro) and showed the manufacturing capabilities of BEML. Later, he held detailed discussions with BEML on

export opportunities. As a mark of visit Shri Rasquinha planted a sapling at the Complex premises.

Expressing his view, he said, "Born after Independence, till now BEML has not just moved the Nation, it has also built India. It has made a name nationally and internationally from the legacy operation to new futuristic design. My greetings & best wishes to Dr. Deepak Kumar Hota, Management team & all staff".



Shri David Rasquinha MD, EXIM Bank watering the sapling.



## BEML Wins Quality Awards

### KGF and Bangalore Complexes Won the Quality Awards in Different Categories

**K**GF Complex Team won 'Excellence Award' in 34<sup>th</sup> National Convention on Quality Concepts (NCQC) on 27<sup>th</sup> Dec. 2020 organised by Quality Circle Forum of India, Hyderabad. Team led by Shri HC Shivaraju, AGM (Quality) along with the team members, Shri M Singaru Velanan, Sr. Manager, Shri Maruti Shankar- Manager, Shri N

Balakrishnappa- Technician, Shri Prashant- Operator, and facilitated by Shri V Venkataramanan- AGM (QE) presented the case study of "Addressing Assembly, Serviceability and field issues of Bulldozers BD65-1 by quality improvement in virtual convention.

With this the team is qualified to participate in international Convention

(ICQCC 2021). It may be noted that the same team has won the first prize in BEML Divisional Level QC Competition, Gold Award in CCQC 2020 at Bangalore and Conciliation prize in BEML Nonimara Award 2020.

S.No	Section	Maximum Marks	Marks Obtained
1	Pre-Convention	100	100
2	Post-Convention	100	100
3	Knowledge Test	100	100
Total Marks		300	300
Total Marks/Obtained		300	300
Result: Excellence Award			



Sri H C Shivaraju.



Sri Singaru Velanan.M



Sri Maruthi Shanakar R.



Sri Balakrishnappa. N



Sri. Prashanth



Sri Venkataramanan. V

### Bangalore Complex Team won "Par Excellence" Award in NCQC-2020

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Total Marks		300	300
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Result: Par Excellence Award			

Bangalore Complex team won "Par Excellence" award in 34<sup>th</sup> National Convention on Quality Concepts (NCQC) on 27<sup>th</sup> December 2020

organised by Quality Circle Forum of India, Hyderabad..

Team "DALFON" led by Sri K N Manjunath, Manager (T & C) along with team members Sri Suresh Kumar C (Technician-Coach Electrical), Sri K N Manjunath (Technician-Coach Electrical), Sri. Prasad G, (Asst. Manager - Quality), Sri. Kishore S (Asst. Manager-Coach Electrical) and facilitated by Sri Suresh R, (AGM-Coach Electrical), presented the case study on "A Study on ATC Fuse Blow-Off Issue in Bangalore Metro Cars" in virtual convention.

With this, the team is qualified to



Sri K N Manjunath



Sri Suresh Kumar C



Sri K N Manjunath



Sri. Prasad G



Sri. Kishore S



Sri Suresh R

participate in the International Convention, ICQCC 2021. It may be recalled that the same team has won second prize in BEML Nonimara-2020 and GOLD Award in CCQC-2020 at Bangalore.

### Bangalore Complex Team Wins "Lean Six Sigma Contest-2020"

A team of Bangalore Complex led by Shri G Prabhakar,- DGM (Production) along with team members Shri R Iyyapillai- Sr. Manager (Product Design), Shri Niranjana Kumar Singh (Sr.

Manager- Quality) and Smt. P. Neerja (Asst. Manager-Quality) presented the

case study in virtual mode based on "Design of Experiments".



Sri G Prabhakar



Sri R Iyyapillai



Sri Niranjana Kr. Singh



Smt. P Neeraja



BEML has won "Third Prize" in "Lean Six Sigma" Case Study Presentation Contest-2020 held at National Institution for Quality and Reliability, Bangalore on 14<sup>th</sup>, 15<sup>th</sup>, 16<sup>th</sup> & 21<sup>st</sup> December 2020 for the case study on "optimization of process parameters to minimize structure vibration in 23-phase MEMU Coaches."





## Tribute to Dr. B.R. Ambedkar



At Mysore Complex

Remembering Dr. Baba Saheb Ambedkar on Mahaparinirvan Divas, BEML paid tribute to him

on his 64<sup>th</sup> death anniversary.

At a function held at Mysore Shri Radhakrishna, ED, Mysore complex garlanded his statue, along with President and Executive members of BEML SC/ST Association, Union & Executives Employees.

A lecture programme on 'Talk on life and works of Dr. B R Ambdekar' was organised on this occasion at KGF.

People paid rich tributes to Dr. BR Ambdekar on 6<sup>th</sup> Dec 2020 which is observed as the



Talk on life and works of Dr. B.R.Ambdekar' at KGF

Mahaparinirvan Divas every year. Parinirvana, regarded as one of the major principles, as well as goals of Buddhism, is a Sanskrit term which means release or freedom after death.

## 'Swachhta Pakhwada' at BEML

As a part of Swachh Bharat Abhiyan or Clean India Mission, the country-wide campaign initiated by the Government of India (GoI) for nationwide cleanliness, BEML, observed a fortnight long 'Swachhta Pakhwada' program from 1<sup>st</sup> to 15<sup>th</sup> Dec. 2020 all across its units for creating and spreading awareness about cleanliness.

On this occasion Swachhta Pledge was also administered for encouraging the observance of cleanliness by individuals. During this fortnight, disposing of scrap materials; cleanliness drive at the public places, township; weeding out of old files & old equipment; plantation of tree saplings, fumigation, disposal of e-waste, clearing drainage etc. were undertaken. To spread awareness about cleanliness, posters and banners were displayed at various strategic locations in and around factory complexes and residential township. Various programmes such as seminar, essay writing & drawing competition on the subject of cleanliness were organized. for all employees.

## Get - together with Former CMDs & Directors



Sitting from L to R: S/s R.H. Muralidhara, Former Director (Defence), S.S. Rao, Former Director (HR), Brig. E.S.K. Murthy, Former Director, (Marketing), T.R.R. Rao, Former Director (Production), V RS Natarajan, Former CMD, Dr. Deepak Kumar Hota, CMD, Dr. K. Aprameyan, Former, CMD, P.S. Gopinath, Former Director (R&D), K.R. Anantharaman, Former Director (Marketing) & N.P. Manjunath, Former Director (H&R).

Standing from L to R: S/s H.S. Ranganath, ED, Ajit Kumar Srivatsav, Director (Defence), Suresh S. Vastrad, Former Director (R&M), Suraj Prakash, Director (Finance), Amit Banerjee, Director (Rail & Metro), Pradeep Swaminathan, Former Director (Finance), P.R. Nayak, Former Director (Defence), M.V. Rajasekhar, Director, (Mining & Construction), K. Anirudh Kumar, Former Director (Rail & Metro), C.N. Durgesh, Former Director, (Mining & Construction), M. Pitchaiah, Former Director (Finance), B.R. Viswanatha, Former Director (Mining & Construction) N.K. Srinivasan, Former Director (Rail & Metro), M. Poongavanam, Former Director (Mining & Construction), R. Mohan, Former Director, (Defence).





# BEML

## News

### MEDIA COVERAGE ON RM's VISIT

#### Made in Bengaluru for Mumbai: India's first indigenous developed driverless metro train



Defence Minister Rajnath Singh unveiled the country's first indigenous designed and developed driverless Metro car, here on Friday.

After unveiling the state-of-the-art driverless metro trains, developed by the defence PSU Bharat Earth Movers Limited (BEML), he described the employees of BEML as the real warriors of 'Atmanirbhar Bharat'.

The indigenous designed and developed Metro cars would be delivered to the Mumbai Metro Corporation.

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#### 'Driverless Metro Car' unveiled by Defence Minister Rajnath Singh in Mumbai

Defence minister Rajnath Singh unveiled state-of-the-art 'Driverless Metro Car' for Mumbai Metropolitan Region Development Authority (MMRDA) which will be deployed on Metro corridors in Mumbai.

The metro car was unveiled at a function held at BEML's Bangalore Complex.

Singh said, "I'm proud of the good work the team of engineers and technicians are doing at BEML. I would also like to congratulate but bow before each and every member of BEML and wish that the wonderful work that is being done by the company should be made known to the nation. They are the real warriors of 'Atmanirbhar Bharat', taking India ahead."

Chairman and managing director, BEML LIMITED Deepak Kumar Hota "Hon'ble Raksha Mantri Singh said, "I'm proud of the good work the team of engineers and technicians are doing at BEML. I would also like to congratulate but bow before each and every member of BEML and wish that the wonderful work that is being done by the company should be made known to the nation. They are the real warriors of 'Atmanirbhar Bharat', taking India ahead."

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### The Indian EXPRESS

Rajnath Singh unveils India's first indigenous developed driverless metro car



Defence Minister Rajnath Singh unveils state-of-the-art 'Driverless Metro Car' for Mumbai Metropolitan Region Development Authority (MMRDA) at a function held at BEML in Bengaluru, Friday, Jan. 15, 2021. (PTI Photo)

Defence Minister Rajnath Singh on Friday unveiled the country's first indigenous designed and developed Driverless Metro Car at the BEML manufacturing facility in Bengaluru.

The minister, who visited the facility, said he was proud of the good work the team of engineers and technicians are doing at Bengaluru-headquartered BEML.

"They are the real warriors of Atmanirbhar Bharat, taking India ahead", he said.

According to BEML, state-of-the-art driverless metro cars, being manufactured at the company's Bangalore Complex, are made up of stainless-steel body with a capacity of carrying 2280 passengers in six-cars Metro train-set.

BEML bagged a total order of 576 cars for Mumbai Metropolitan Region Development Authority (MMRDA)'s MRS1 project and the supply is scheduled progressively up to January 2024.

BEML recently opened its Depot office at Charkop Metro Depot, MMRDA, Mumbai for commissioning, testing and round-the-clock services for Driverless Metro cars.

Secretary (Defence Production) Raj Kumar (IAS, Secretary (Defence Production) and BEML Limited Chairman and Managing Director, Deepak Kumar Hota, were among those present on the occasion.

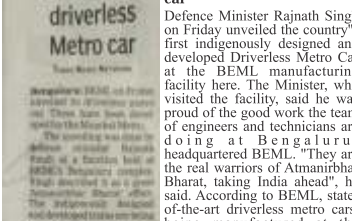
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At the BEML's Bangalore Complex, Singh inspected the Rail Hangars, the array of

### THE TIMES OF INDIA

BEML unveils driverless Metro car



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### Business Standard

BEML unveils driverless metro car for MMRDA

Union Defence Minister Rajnath Singh on Friday (15 January 2021) unveiled driverless metro car for Mumbai Metropolitan Region Development Authority (MMRDA) at a function held at BEML's Bangalore Complex.

At the same function, Rajnath Singh, also virtually launched the Aerospace Assembly Hangar, situated within BEML's Bangalore complex, and unveiled first indigenous

### NEWS 18

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### rissadiary.com

Defence Minister Rajnath Singh unveils India's First Indigenous Designed & Developed Driverless Metro Car; Calls it a manifestation of the true spirit of 'Atmanirbhar Bharat'



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Speaking on the occasion Shri Rajnath Singh, said MMRDA project has 63 per cent indigenous content which will enhance to 75 per cent in next two to three years. "This reflects Indian Industry's overwhelming response to Prime Minister Shri Narendra Modi's 'Atmanirbhar Bharat' call", he said. Raksha Mantri said this driverless metro project will act as a source of inspiration to other Indian companies, particularly the defence industry to help India emerge as a

manufacturing hub which, in turn, will fulfil \$ 5 Billion US Dollar defence export target and 25 Billion US Dollar defence industry turn over by 2025. Raksha Mantri said Ministry of Defence has taken a unique step, like introducing Defence Production and Export Promotion Policy (DPEPP) 2020 and new Defence Acquisition Policy incorporating provisions for purchasing equipment and platforms with more indigenous technology. Citing the government's recent decision to procure 83 Tejas fighter aircrafts from HAL at the cost of nearly Rs. 50 thousand Crore, Raksha Mantri said it will create over 5000 new job opportunities and "about 500 Indian companies including MSMEs as well as private companies will get a business boost with the HAL's Tejas project."

### THE WEEK

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### ಕಂಠಪ್ರಸಾರಿ



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Singh said, "I'm proud of the good work the team of engineers and technicians are doing at BEML. I would also like to congratulate but bow before each and every member of BEML and wish

### FREE PRESS

MMRDA to receive first 'Made in India' metro rake by January end



The Mumbai Metropolitan Region Development Authority (MMRDA) will receive the delivery of first 'Made in India' metro rake by end of this month. This rake will be kept at Charkop depot, the work of which is almost complete.

An official of MMRDA said, "The rake will comprise six metro coaches and will reach Mumbai via road."

It is gearing up with all remaining metro construction work so that from March it can begin trial runs of the much-awaited Metro Line 2A that will pass along Link Road from Andheri West up to Dahisar and Metro Line 7 along Western Express Highway from Dahisar East up to Gundlupet, Andheri.

The rakes are being manufactured by the Bengaluru-based Bharat Earth Movers Ltd (BEML).

The MMRDA was supposed to receive the delivery of metro rake in December 2020 and initiate the trial runs by January 14 (on Makar Sankranti). However, the pandemic induced lockdown affected the plan, thereby delaying the work by a few more months as expected by the officials.

### BEML LIMITED

Schedule 'A' Company Under Ministry of Defence, Govt. of India



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