









Business Standard

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BEML, NAL sign MoU to jointly develop 2-seater trainer aircraft

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with Council of Scientific and Industrial Research (CSIR)-National Aerospace Laboratories (NAL) for joint development in the areas of advanced composites and autoclaves, mini-unmanned aerial vehicles, design & analysis of aircraft structure and systems.

BEML also teamed with NAL for joint development of two seater trainer aircraft through transfer of technology, according to a BEML statement.

"This will help BEML increase its footprint in the aerospace sector," the statement said.















Raksha Mantri Visited BEML Pavilion @ AERO INDIA 2021 (THE NEWSMAN OF INDIA.COM) Rajnath Singh, Hon'ble Raksha Mantri Visited BEML pavilion at

AERO INDIA 2021. On arrival he was warmly

greeted by MV Rajasekhar, CMD and shown

around the equipment, components and briefed

about the BEML's Capabilities in Defenec &

Aerospace Business Sector.

9-2-2021

BEML Signs MoU with CSIR-NAL

(THE NEWSMAN OFINDIA.COM)

BEML Limited signed a Memorandum of understanding (MoU) with Council of Scientific and Industrial Research (CSIR)-National Aeronautics Laboratory (NAL) to develop in the areas of advance composite and autoclaves, Mini unmanned aerial vehicles, Design & analysis of aircraft structure and systems. BEML also teamed with NAL for joint development of 2 seater trainer aircraft through Technology of transfer (ToT).At AERO SHOW, Bangalore Shri A K Srivastav, Director Defence & Aerospace exchanged the copies with Shri R Venkatesh, Director Business Development, NAL in the presence of MV Rajasekhar, CMD, BEML. This will help BEML to increase its footprint in the Aerospace sector.







BusinessLine

News

BEML teams up with CSIR-NAL to develop 2 seater trainer aircraft

Anil Urs Yelahanka (Bengaluru) | Updated on February 04, 2021 Published on February 04, 2021



BEML Limited, a defence public sector undertaking, has signed a Memorandum of understanding (MoU) with Council of Scientific and Industrial

Research (CSIR)-National Aeronautics Laboratory (NAL) to take up R&D in the areas of advance composite and autoclaves, mini unmanned aerial vehicles, design and analysis of aircraft structure and systems.

The company also has teamed up with NAL for joint development of two seater trainer aircraft through Technology of Transfer (ToT) route. At Aero India 2021, AK Srivastav, Director Defence & Aerospace exchanged the MoU copies with R Venkatesh, Director Business Development, NAL in the presence of MV Rajasekhar, CMD, BEML. "This will help BEML to increase its footprint in the aerospace sector," said Rajasekhar.

At the Aero India, Chief of the Army Staff Gen MM Naravane visited the BEML Stall. Gen Naravane was briefed by Rajasekhar and AK Srivastav, Director Defence on BEML's ongoing projects related to aerospace and defence business.







Shri A K Srivastav, Director Defence, BEML exchanging the copies of MoU with Shri Ashish Rajvanshi, MD, Adani Defence Systems & Technologies Limited in the presence of Shri MV Rajasekhar, CMD, BEML LTD at AERO India 2021

New Delhi: BEML Limited is a leading multi-technology 'Schedule A' company under the Ministry of Defence signed of MoUs with 11 entities to explore and enhance the business in the Defence & Aerospace Sector in the presence of Shri Rajnath Singh, hon'ble Raksha Mantri at the Bandhan Ceremony, AERO INDIA 2021. Shri M V Rajasekhar, CMD, Shri Suraj Prakash, Director (Finance), and Shri A K Srivastav, Director (Defence Business) were present on this occasion.

MoUs:-

- With UP Expressway Industrial Development Authority (UPEIDA) to explore the opportunities for establishing warehouse storage for
 parts and activity center for servicing come overhauling of BEML products (MRO).
- With Advance Navigation Positioning Company (ANPC) for joint manufacturing of transponder landing system (TLS) for Indian armed forces, Airport Authority of India (AAI), and Oil exploration companies.
- With Primoco UAV SE, Czech Republic for manufacturing of '150 kg class' Surveillance UAV for Indian as well as global requirements such as Intelligence-based agriculture, Remote mapping, Pipeline Monitoring, Mining Support, Security & Intelligence, Disaster Management & Surveillance.
- · With IIT Kanpur for joint development and manufacturing of 25 kg class Tactical UAV for Armed forces.
- With Torus Robotic Pvt Ltd, Chennai for joint development Artificial intelligence (AI) based unmanned ground vehicle (UGV), Robotics, Lightweight, Ingenious electric power drive system for defence and commercial applications.
- With Council of Scientific and Industrial Research (CSIR)-National Aeronautics Laboratory (NAL) to develop in the areas of advanced composite and autoclaves, Mini unmanned aerial vehicles, Design & analysis of aircraft structure and systems.
- With Outdu Mediatech Pvt. Ltd., Bangalore for Artificial intelligence-based vision system and face recognition system for surveillance & monitoring applications.
- · With SKAT Systems, Russia for joint manufacture of High Altitude UAVs for Indian and Global requirements.
- With Hacklab Solutions Pvt Ltd, Bangalore for Al-Based Lightning System (headlamps/fog lamps) on Heavy Earth Moving Machinery (HEMM) current and future products in order to make more competitive.
- With JSC 'Rosoboron'export, Russia for projects such as infantry combat vehicle 'Boomerang', light armored vehicle 'Strela', Auxiliary
 power units for T-71 / T-90 tanks, Air Defence Systems.
- With SYOMKA S VOZDUHA, Russia (Shooting from Air) for manufacturing of Marine Drones and Anti Drone Systems.
- With Adani Defence Systems & Technologies Limited to provide mobility systems for armed vehicles such as wheels armored personal
 carriers, infantry combat vehicles, and main battle tanks. Apart from the development and production of Jigs and fixtures for UAVs, Air
 borne structures, ground handling, and ground support equipment for Airports.







BEML Signs MoU with CSIR-NAL

This will help BEML to increase its footprint in the Aerospace sector



Left to Right - Shri A K Srivastav, Director Defence & Aerospace exchanged the copies with Shri R Venkatesh, Director Business Development, NAL in the presence of Shri MV Rajasekhar, CMD, BEML

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ಉದಯವಾಣಿ

ತರಬೇತಿ ಯುದ್ಧ ವಿಮಾನ: ಒಡಂಬಡಿಕೆ



ತರಬೇತಿ ಯುದ್ಧ ವಿಮಾನ ಅಭಿವೃದ್ಧಿಗೆ ಬಿಇಎಂಎಲ್ ಹಾಗೂ ಸಿಎಸ್ಐಆರ್ –ಎನ್ಎಎಲ್ ಕಂಪನಿಗಳು ಜಂಟಿ ಒಡಂಬಡಿಕೆ ಮಾಡಿಕೊಂಡವು.

ಬೆಂಗಳೂರು: ಭಾರತ್ ಅರ್ತ್ ಮೂವರ್ಸ್ ಲಿ., (ಬಿಇಎಂಎಲ್) ಹಾಗೂ ಕೌನ್ಸಿಲ್ ಆಫ್ ಸೈಂಟಿಫಿಕ್ ಆಂಡ್ ಇಂಡಸ್ಟ್ರಿಯಲ್ ರಿಸರ್ಚ್-ನ್ಯಾಷನಲ್ ಏರೋ ಸ್ಪೇಸ್ ಲ್ಯಾಬೋರೇಟರೀಸ್ (ಸಿಎಸ್ಐಆರ್-ಎನ್ಎಎಲ್) ಜಂಟಿಯಾಗಿ ತರಬೇತಿ ಯುದ್ಧ ವಿಮಾನ ಅಭಿವೃದ್ಧಿಪಡಿಸಲು ಮುಂದಾಗಿದ್ದು, ಈ ಸಂಬಂಧ ಎರಡೂ ಪ್ರತಿಷ್ಠಿತ ಸಂಸ್ಥೆಗಳು ಗುರುವಾರ ಪರಸ್ಪರ ಒಡಂಬಡಿಕೆ ಮಾಡಿಕೊಂಡವು.

ಯಲಹಂಕ ವಾಯುನೆಲೆಯಲ್ಲಿ ನಡೆಯುತ್ತಿರುವ ಏರೋ ಇಂಡಿಯಾ ಶೋನಲ್ಲಿ ಎರಡೂ ಸಂಸ್ಥೆಗಳ ನಿರ್ದೇಶಕರು ಪರಸ್ಪರ ಸಹಿ ಹಾಕಿ, ಒಪ್ಪಂದ ಪತ್ರಗಳನ್ನು ವಿನಿಮಯ ಮಾಡಿಕೊಂಡರು. ಬಿಇಎಂಎಲ್ ಅಧ್ಯಕ್ಷ ಮತ್ತು ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕ ಎಂ.ವಿ. ರಾಜಶೇಖರ್ ಇದಕ್ಕೆ ಸಾಕ್ಷಿಯಾದರು.

ಈ ಒಪ್ಪಂದವು ಒಂದು ತಂತ್ರಜ್ಞಾನಗಳ ವಿನಿಮಯ ಆಗಿದೆ. ತರಬೇತಿ ಯುದ್ಧ ವಿಮಾನಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಸುಧಾರಿತ ಸಂಯೋಜನೆಗಳು, ವಿಮಾನಗಳ ವಿನ್ಯಾಸ ಮತ್ತು ವಿಶ್ಲೇಷಣೆ, ಅದರಲ್ಲಿನ ವ್ಯವಸ್ಥೆಗಳು, ಲಘು ಮಾನವರಹಿತ ವಿಮಾನ ಮತ್ತಿತರ ಅಂಶಗಳನ್ನು ಇದು ಒಳಗೊಂಡಿರಲಿದೆ. 'ಇದು ಏರೋಸ್ಪೇಸ್ ಕ್ಷೇತ್ರದಲ್ಲಿ ತನ್ನ ಸಾಮರ್ಥ್ಯವನ್ನು ವೃದ್ಧಿಸಲು ಈ ಒಪುಂದ ನೆರವಾಗಲಿದೆ' ಎಂದು ಬಿಇಎಂಎಲ್ ವಿಶ್ಲೇಷಿಸಿದೆ.





MV Rajasekhar assumes additional charge as CMD of BEML

3 Feb 2021



MV Rajasekhar, who is currently serving as Director (Mining & Construction) has assumed additional charge as Chairman & Managing Director (CMD) of BEML Limited on February 1 New Delhi: BEML Limited's Director (Mining & Construction) MV Rajasekhar has assumed additional charge as Chairman & Managing Director (CMD) of the defence PSU on February 1. He has succeeded Dr Deepak Kumar Hota, who retired from service on account of superannuation on January 31. Rajasekhar has been assigned with the additional charge of the post for a period of three months with effect from February 1, or till regular incumbent is appointed or until further orders, whichever is earlier. He is serving as Director (Mining & Construction) of BEML since June 1, 2019.

Rajasekhar is a graduate in Metallurgical Engineering from VNIT, Nagpur. He also holds a postgraduate degree (M Tech) in Welding Engineering from IIT Chennai. In addition, he has done his MS in Technology Management in Germany. He has over 31 years of varied experience spread across several functions like research and development, production, planning, outsourcing and marketing. His production experience includes equipment, aggregates of mining & construction, defence and rail & metro businesses. Prior to assuming the present position, Rajasekhar was the Executive Director (Mining & Construction Business).

BEML Limited

BEML Limited, formerly known as Bharat Earth Movers Limited, was established in May 1964 as a PSU for the manufacture of Rail Coaches & Spare Parts and Mining Equipment at its Bangalore Complex. The company has partially disinvested and presently the government owns 54 percent of total equity and rest 46 percent is held by Public, Financial Institutions, Foreign Institutional Investors, Banks and BEML Employees. BEML plays a pivotal role in serving India's core sectors like defence, rail, power, mining and infrastructure. The company started with a modest turnover of Rs 5 crore in1965 and the total turnover of the company is now more than Rs 3,500 crore.







3 Feb 2021

BEML Showcasing its capabilities in Defence and Aerospace Sectors



Bengaluru: BEML is showcasing some of its prime products during AERO INDIA 2021, the biennial mega Aero exhibition, being held in Bangalore, from 3rdFeb to 5th Feb. 2021. With the theme of 'Atmanirbharata'; include niche products such as Transporter Landing System (TLS) and Variants of Unmanned aerial vehicles (UAV). In the indoor Stall, BEML is also displaying various equipment and critical components in the aero-space sector.

BEML's focus at AERO Show is to display its capability, promote Aerospace & Defence products and to interact with potential customers, and also explore collaborations. BEML would be signing MoUs, to enter into collaborations with major players in the Defence & Aerospace Business. BEML would also be using the opportunity to network with MSMEs and Startups to maximize its efforts of localization/indigenization.

TLS being displayed in BEML Outdoor Stall is a ground-based precision landing system which can improve access to airports where terrain or land constraints make instrument lending system (ILS) installation infeasible or cost-prohibitive. TLS works over any terrain using directional antennas and can be installed even on short runways ending with water/obstructions. It would be manufactured in India by BEML in collaboration with Advanced Navigation and Positioning Corporation, USA.

BEML Primoco UAV- 'One 150', the state-of-the-art UAV designed for civilian and also military uses is one of the centre pieces in BEML Indoor Stall. It is built to take off and land autonomously also in poor weather conditions. It can fly continuously for 15 hours and has a 200 km radio range. This UAV can be used for surveillance, monitoring, boarder patrolling, and law enforcement. Primaco UAV is planned to be built in India in Collaboration with Primaco, Czech Republic.

BEML is also displaying the 25 kg Class Tactical UAV being developed indigenously in collaboration with the Indian Institute of Technology, Kanpur. The UAV is intended to carry versatile payloads of 3.0 kg, such as day & night cameras. It can take off and land in short runways, fly continuously for 8 hours, and has a 50 km radio range.

BEML Limited, the leading multi-technology, multi-product company, is engaged in the design, development and manufacturing of a wide range of products for core sectors of the economy such as Defence, Mining, Power, Infrastructure and Urban Transportation. Presently over 87% of total business is won against tough competition mainly from MNCs, while above 68% of the business comes from inhouse R&D developed products. BEML Limited has exported its products to over 68 countries.







3 Feb 2021

MV Rajasekhar assumed additional charge as CMD, BEML



(THE NEWSMAN OF INDIA.COM)

MV Rajasekhar, Director (Mining & Construction) and member of the board of BEML Limited has taken additional charge as Chairman & Managing Director of the company from Feb 01, 2021. He succeeded Dr Deepak Kumar Hota, who retired from service on account of superannuation.





The Indian EXPRESS

5-2-2021

BEML to collaborate with CSIR-NAL



BEML Limited has signed a Memorandum of Understanding (MoU) With Council of Scientific and Industrial Research (CSIR)-National Aeronautics Laboratory (NAL) for development in the areas of advance composite and autoclaves, Mini unmanned aerial vehicles, Design & analysis of aircraft structure and systems.

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This will help BEML to increase its footprint in the Aerospace sector.



Brahmos Cruise Missile shines at Aero India 2021





Aero-defence strengths of BEML on display

EXPRESS NEWS SERVICE @Bengaluru

DEFENCE PSU BEML is slated to showcase a host of its prime products at Aero India 2021. With the theme 'Atmanirbharata', the company's niche product line-up such as Transporter Landing System (TLS) and variants of unmanned aerial vehicles, will be on display. In the indoor stall, it is displaying various equipment and critical components in the aerospace sector, such as the BEML Primoco UAV-'One 150', which is designed for civilian and military use.

"BEML's focus at the air show is to display its capability, promote Aerospace & Defence products and interact with potential customers and explore collaborations. BEML would be signing MoUs, to enter into collaborations with major players...

3-2-2021

The company would also be using the opportunity to network with MSMEs and startups to maximise its localisation/ indigenisation efforts," a release said.

Meanwhile, MV Rajasekhar, Director (Mining & Construction) and member of the board of BEML Limited took additional charge as Chairman & Managing Director of the company as on February 1, 2021. He succeeded Dr Deepak Kumar Hota.

The Statesman BEML CMD

BEML CMD: M V Rajasekhar, director (mining & construction) and member of the board of BEML Ltd, took additional charge as chairman & managing director of the company from 1 February. He succeeded Deepak Kumar Hota, who retired from service on superannuation, the Bengaluru-headquartered company said in a statement. PTI







DECCAN & HERALD

3-2-2021

Air show symbol of country's revitalisation: Rajnath

Advanced tech on display

'Decision to hold Aero India amid Covid wasn't easy'

BENGALURU, DHNS

From top-level military discussions to cutting-edge military technology aimed at showcasing India's indigenous manufacturing, Defence Minister Rajnath Singh said Aero India 2021 is a symbol of the efforts to revitalise the country.

Speaking to reporters on Tuesday, Singh defended the move to hold Aero India this year, despite the cancellation of other air shows around the world due to the threat of Covid-19, notably the Paris Air Show, which was supposed to be held in June.

"The world is passing through one of the worst pandemics. The decision to organize Aero India 2021 amid Covid-19 and the security challenges thrust upon us along the northern borders was not easy - I have no hesitation in saying that," the Defence Minister said.

The minister said all health protocols would be strictly followed at the event and pointed to several key features of the air show this year which he said distinguishes it from its "previous avatars."

Among these are a conclave of defence ministers, a conclave of Chiefs of Air Staff of various countries and the expected signing of 200 MoUs on Friday.

The defence ministers' conclave, which will be held at Taj Yeshwantpur on Thursday, will be attended by ministers from 28 Indian Ocean Rim (IOR) Association countries, nine of whom will attend virtually. Among these is the Ira-

The advanced future technologies category will showcase an advanced unmanned wingman aircraft being developed by Hindustan Aeronautics Limited (HAL). BEML will showcase its Primoco UAV 'One 150,' a state-ofthe-art UAV designed for civilian and military uses and can remain airborne for 15 hours at a stretch. Bharat Electronics

nian defence minister, Singh confirmed.

The closed-door meeting is to focus on stability and prosperity in the region. Meantime, the Chiefs of Air Staff conclave will examine technological advances and use of air power especially in the Indo-Pacific region.

India Pavilion

Another key feature is the "India Pavilion," whose theme is rotary wings. Anurag Bajpai, joint secretary, department of defence production, explained that the theme was chosen to show India's strides in helicopter development.

"Previously, India was reliant on other countries for helicopters, but now we will showcase our indigenous strength," Bajpai said.

The India pavilion will feature displays of rotor systems from defence PSUs, large private manufacturers, MSMEs and startups. Divided into four zones, the first zone is dedicated to India's flagship rotor machines: the Advanced Light Helicopter, the Light Utility Helicopter, and the Light Combat Helicopter, Chetak, Cheetah and Cheetal.

The second zone highlights India's indigenous strength Limited (BEL) said that it will display about 30 products and systems in total, which were developed as part of the Aatmanirbhar Bharat initiative, including Airborne Missile Electronics, Receivers for EW Systems, 2KW Fuel Cells, FO Gyro based Sensor Packaged Unit, Athermal Laser Transmitter, IR Jammer and IR Seekers Missiles.

and capabilities in research, design and development of rotor systems. The third zone will focus on lifecycle support through maintenance, repair, overhaul and training. The fourth zone provides a glimpse of the future of rotary wing platforms in India, including Unmanned Aerial Vehicles (UAVs).

Bajpai said two of the other main features on inauguration day will be a Tejas Mark IA order ceremony and the flying display. "Aircraft from three countries will participate in the air display, including India, the United States and Ukraine," he said.

President chief guest

The Defence Minister also confirmed that President of India Ram Nath Kovind has consented to be the chief guest. "This is a first in the 13 times the air show has been held,"Singh said.

Defence officials and Chief Minister BS Yediyurappasaid that the expo will not only help Karnataka consolidate its position as one of favoured destinations for foreign and domestic investors, but it will also cement its reputation as a gateway to defence and aerospace engagement in India.





BusinessLine

Shri M V Rajasekhar assumed additional charge as CMD, BEML



Shri MV Rajasekhar, Director (Mining & Construction) and member of the board of BEML Limited has taken additional charge as Chairman &

Managing Director of the company from Feb 01, 2021. He succeeded Dr Deepak Kumar Hota, who retired from service on account of superannuation.



3-2-2021

BEML to showcase transporter landing system

SPECIAL CORRESPONDENT BENGALURU

BEML will display a Transporter Landing System (TLS), a groundbased precision landing system that can improve access to airports where terrain or land constraints make the installation of an instrument landing system (ILS) prohibitive in terms of cost or non-feasible.

TLS can be installed even on short runways ending with water or obstructions. This will be manufactured in India by BEML in collaboration with Advanced Navigation and Positioning Corporation, U.S.A., said a release.

Variants of unmanned aerial vehicles (UAV) will be on display, including Primoco UAV designed for civilian and defence purposes. It is built to take off and land autonomously in poor weather conditions.

Bharat Electronics Ltd. (BEL)

will showcase a host of high technology products from its stable, including 30 products and systems developed as part of the Aatmanirbhar Bharat initiative.

LCA division inaugurated

The second plant of HAL's Light Combat Aircraft (LCA) division, which will increase the production capacity, was inaugurated in Bengaluru by the Defence Minister Rajnath Singh.





DECCAN & HERALD Forum for strategic alliance

he sonic boom of a highspeed aircraft flying overhead is music to an enthusiast of all things connected to air shows. Every alternate year Bengalureans are treated to an exhibition of might and grace as planes cavort effortlessly in heart-stopping maneuvers. This year, the 13th Aero India show is slated from February 3-5. Many foreign delegations will conduct business as usual with the Indian and foreign exhibitors on hand. The organizers are ensuring all safety norms will be in place to provide the much-needed platform for decision-makers and A&D industry businesses on a national and global scale for new opportunities and partnerships.

Aero India began its journey in 1996. This exhibition is a biennial one and

critical for both the aerospace and Defence sectors. It highlights aerospace, defence, civil aviation, airport infrastructure and defence. The event showcases new developments, products, technologies, market trends and attracts investors and buyers alike. Some among the notable sectors showcased are quality assurance, software systems,

aeronautical developments, ammunitions, engineering services, research and development, electronics and radar, robotics, artificial intelligence, vehicles, Indian army, navy, air force and others. Many companies operating in these sectors present their products to strike lucrative deals in manufacturing and supply.

The logo of the event, inspired by the Tejas Light Combat Aircraft (LCA) and its tri-coloured silhouette with the Ashok Chakra, evokes the spirit of a new India and underlines the fact that this country is indeed the top of its class in world-class aerospace exhibitions. The outline of the 'A' is symbolic of a fighter jet, indicative of the strength and supremacy of Aero India on the world stage.

The show is also a venue for strategic military alliances. When countries participate it provides an opportunity to the military administrations to fortify existing relations or forge new ones, all working towards peace in the region as well as worldwide. It also provides an opportunity, to put on view, in peaceful setting, the military might and capabilities available for India and other countries.



This exhibition provides opportunities to the defense sector to stay updated with the latest in avionics. It also helps strengthen local partnerships and promote the 'Make in India' brand. As

a result of these negotiations and deals, the Indian sup-

show is an opportunity to network, showcase technology and sign lucrative business deals, says **Swati Rathore**

This

ply chain is benefited with crores in revenues and many job opportunities. This echoes in the tagline for the event which says that Aero India 2021 is, "The Runway to a Billion Opportunities". The Ministry of De-

fence website has all relevant details about this event. This online presence is critical since many of the participants are unable to attend the show because of travel restrictions. The Aero India 2021 virtual exhibition on YouTube has uninterrupted viewing 24/7; facility to see detailed descriptions of all the products on display and virtual interactions with the exhibitors; participation in all the conferences; conducting B2B meetings with the exhibitors in virtual meeting rooms and the option to watch the live events remotely, even for an extended period of time. It is reported that more than 600 exhibitors are proposed to take part with 78 foreign delegations.

No aero show is complete without the air display which tests both machines and man alike. Hindustan Aeronautics Ltd announced that its indigenous aircraft will fly in the 'Atmanirbhar Formation Flight' with the light combat aircraft (LCA) trainer, Hindustan Turbo Trainer-40 (HTT-40) jets, the intermediate jet trainer, advanced Hawk Mk-132 aircraft (Hawk-i) and the Dornier-228 transport plane.

BEML is showcasing some of its prime products such as Transporter Landing System (TLS) and variants of unmanned aerial vehicles (UAV). BEML is also displaying various equipment and critical components in the aerospace sector. BEML's focus at the show is to display its capability, promote aerospace and defence products, and to



interact with potential customers.

The US Consulate, Chennai reported that a B-IB, a supersonic heavy bomber of the 28th Bomb Wing based out of Ellsworth Air Force Base in South Dakota, will perform a fly-by. The Surya Kiran and Sarang Helicopters are also expected to strut their stuff and blaze a trail in the skies overhead.

Many seminars and conclaves are scheduled like 'Post Covid19: The Future and Dynamics of Civil Aviation Sector' and 'Aerospace & Defence opportunities in Karnataka', and topics like 'Aero engines India: An Engine of Atmanirbhar Bharat'.

The last day has events/seminars like 'Start Up Manthan' for promoting new ventures, 'Bandhan' for signing MOUs, product launches and announcements; and a grand finale in the form of a valedictory function presided over by the President of India.







ವಿಜಯ ಕರ್ನಾಟಕ

ತರಬೇತಿ ಯುದ್ಧ ವಿಮಾನ: ಒಡಂಬಡಿಕೆ



ತರಬೇತಿ ಯುದ್ಧ ವಿಮಾನ ಅಭಿವೃದ್ಧಿಗೆ ಬಿಇಎಂಎಲ್ ಹಾಗೂ ಸಿಎಸ್ಐಆರ್ -ಎನ್ಎಎಲ್ ಕಂಪನಿಗಳು ಜಂಟಿ ಒಡಂಬಡಿಕೆ ಮಾಡಿಕೊಂಡವು.

ಬೆಂಗಳೂರು: ಭಾರತ್ ಅರ್ತ್ ಮೂವರ್ಸ್ಸ್ ಲಿ., (ಬಿಇಎಂಎಲ್) ಹಾಗೂ ಕೌನ್ಸಿಲ್ ಆಫ್ ಸೈಂಟಿಫಿಕ್ ಆಂಡ್ ಇಂಡಸ್ಟ್ರಿಯಲ್ ರಿಸರ್ಚ್-ನ್ಯಾಷನಲ್ ಏರೋ ಸ್ಪೇಸ್ ಲ್ಯಾಬೋರೇಟರೀಸ್ (ಸಿಎಸ್ಐಆರ್-ಎನ್ಎಎಲ್) ಜಂಟಿಯಾಗಿ ತರಬೇತಿ ಯುದ್ಧ ವಿಮಾನ ಅಭಿವೃದ್ಧಿಪಡಿಸಲು ಮುಂದಾಗಿದ್ದು, ಈ ಸಂಬಂಧ ಎರಡೂ ಪ್ರತಿಷ್ಠಿತ ಸಂಸ್ಥೆಗಳು ಗುರುವಾರ ಪರಸ್ಪರ ಒಡಂಬಡಿಕೆ ಮಾಡಿಕೊಂಡವು.

ಯಲಹಂಕ ವಾಯುನೆಲೆಯಲ್ಲಿ ನಡೆಯುತ್ತಿರುವ ಏರೋ ಇಂಡಿಯಾ ಶೋನಲ್ಲಿ ಎರಡೂ ಸಂಸ್ಥೆಗಳ ನಿರ್ದೇಶಕರು ಪರಸ್ಪರ ಸಹಿ ಹಾಕಿ, ಒಪ್ಪಂದ ಪತ್ರಗಳನ್ನು ವಿನಿಮಯ ಮಾಡಿಕೊಂಡರು. ಬಿಇಎಂಎಲ್ ಅಧ್ಯಕ್ಷ ಮತ್ತು ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕ ಎಂ.ವಿ. ರಾಜಶೇಖರ್ ಇದಕ್ಕೆ ಸಾಕ್ಷಿಯಾದರು.

ಈ ಒಪ್ಪಂದವು ಒಂದು ತಂತ್ರಜ್ಞಾನಗಳ ವಿನಿಮಯ ಆಗಿದೆ. ತರಬೇತಿ ಯುದ್ಧ ವಿಮಾನಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಸುಧಾರಿತ ಸಂಯೋಜನೆಗಳು, ವಿಮಾನಗಳ ವಿನ್ಯಾಸ ಮತ್ತು ವಿಶ್ಲೇಷಣೆ, ಅದರಲ್ಲಿನ ವ್ಯವಸ್ಥೆಗಳು, ಲಘು ಮಾನವರಹಿತ ವಿಮಾನ ಮತ್ತಿತರ ಅಂಶಗಳನ್ನು ಇದು ಒಳಗೊಂಡಿರಲಿದೆ. 'ಇದು ಏರೋಸ್ಟೇಸ್ ಕ್ಷೇತ್ರದಲ್ಲಿ ತನ್ನ ಸಾಮರ್ಥ್ಯವನ್ನು ವೃದ್ಧಿಸಲು ಈ ಒಪ್ಪಂದ ನೆರವಾಗಲಿದೆ' ಎಂದು ಬಿಇಎಂಎಲ್ ವಿಶ್ಲೇಷಿಸಿದೆ.





hindustantimes

3-2-2021

BEML to showcase landing system

ublic sector unit (PSU) **BEML** will display some of its prime products with the theme of 'Atmanirbharata'. It will include its transporter landing system and variants of unmanned aerial vehicles. In the indoor stall, BEML will display various equipment and critical components in the aero-space sector. "The TLS is a ground-based precision landing system, which can improve access to airports where terrain or land constraints make instrument lending system installation infeasible or cost-prohibitive. TLS works over any terrain using directional antennas and can be installed even on short runways ending with

water/obstructions. It would be manufactured in India by BEML in collaboration with Advanced Navigation and Positioning Corporation, US," BEML said.

It added that the Primoco UAV- 'One 150', the state-ofthe-art UAV designed for civilian and also military uses ,is built to take off and land autonomously also in poor weather conditions. It can fly continuously for 15 hours and has a 200-km radio range.

"This UAV can be used for surveillance, monitoring, border patrolling and law enforcement. Primaco UAV is planned to be built in India in collaboration with Primaco, Czech Republic," BEML said.



THE FINANCIAL EXPRESS

BEML showcases its capabilities

3-2-2021

BEML is showcasing some of its prime products during AERO INDIA 2021, the biennial mega Aero exhibition, being held in Bangalore, from 3rd Feb to 5th Feb. 2021. With the theme of 'Atmanirbharata', these include niche products such as Transporter Landing System (TLS) and Variants of Unmanned aerial vehicles (UAV). At the indoor Stall, BEML is also displaying various equipment and critical components in the aero-space sector.

BEML's focus at Aero India is to display its capability, promote Aerospace & Defence products and to interact with potential customers and also to explore collaborations. BEML would be signing MoUs, to enter into collaborations with major players in the Defence & Aerospace Business. BEML would also be using the opportunity to network with MSMEs and Start-ups to maximise efforts its of localisation/indigenisation.

TLS, being displayed at the BEML Outdoor Stall, is a groundbased precision landing system which can improve access to airports where terrain or land constraints make instrument landing system (ILS) installation infeasible or cost-prohibitive. TLS works over any terrain using directional antennas and can be installed even on short runways ending with water/obstructions. It would



M V Rajasekhar, Additional charge as CMD, BEML

be manufactured in India by BEML in collaboration with Advanced Navigation and Positioning Corporation, USA.

BEML Primoco UAV- 'One 150', the state-of-the-art UAV designed for civilian and also military uses, is one of the centre pieces at BEML Indoor Stall. It is built to take off and land autonomously also in poor weather conditions. It can fly continuously for 15 hours and has a 200-km radio range. This UAV can be used for surveillance, monitoring, border patrolling and law enforcement. Primaco UAV is planned to be built in India in collaboration with Primaco, Czech Republic.

BEML is also displaying the 25 kg Class Tactical UAV being developed indigenously in collaboration with IIT, Kanpur. The UAV is intended to carry versatile payloads of 3.0 kg, such as day & night cameras. It can take off and land on short runways, fly continuously for 8 hours and has a 50km radio range.









THE ECONOMIC TIMES

BEML, NAL team up for 2-seater aircraft

BEML Limited on Thursday signed an MoU with Council of Scientific and Industrial Research (CSIR)-National Aerospace Laboratory (NAL) to develop in the areas of advanced composite and autoclaves, mini-unmanned aerial vehicles, design and analysis of aircraft structure and systems. BEML also teamed with NAL for joint development of two-seater trainer aircraft through technology of transfer (ToT). At Aero India 2021, A K Srivastav, Director Defence and Aerospace, BEML, exchanged the copies with R Venkatesh, Director, Business Development, NAL, in the presence of M V Rajasekhar, CMD, BEML.





9-2-2021

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నావికాదళానికి మూడు పఎల్హెచ్లను అష్టనించిన హెచ్ఏఎల్

బెంగళూరు, ఫిబ్రవరి 5 (ఆంద్రజ్యాతి): ఎయిర్షోలో భాగంగా శుకవారం హిందుస్తాన్ ఏరోనాటిక్స్ విమిటెడ్ (హెచ్ఎఎల్) మూడు ఆడ్వాస్ట్ డే లైట్ పాలిక్యాప్టర్ (ఏఎల్ హెచ్)లను నావికాదళానికి అప్పగించింది. ఇండియన్ నేవీ ఆధివతి ఆడ్మిరల్ కరంబీర్ సింగ్ వీటిని అందుకున్నారు. ఈ సందర్భంగా ఆయన మాట్రాడుతూ నావికా దశం, కోన్లల్ గా రుల కోసం హెచ్ఎఎల్కు మొత్తం 16 ఏఎల్హెచ్లను ఆర్త ర్ రేశామన్నారు. హెచ్ఎఎల్ సీఎండీ ఆర్ మాధవన్ మాట్లా డుతూ ఏఎల్హాచ్ ఎంకెకి ఇప్పటికే కి లక్షల గంటలపాటు వ్రయాణించి తన సామర్పాన్ని కాటుకుందన్నారు ఎలాంటి ప్రతికూల వాతావరణాన్ని అయినా తట్టుకునే శక్తి ఈ హెలి క్యాప్టర్లకు ఉంటుందన్నారు. పూర్తి స్వదేశ్ సాంకతిక పరిజ్రా నంతో హెచ్ఎఎల్ శాస్త్రవేత్తలే వీటికి రూపుకల్పన చేశారన్నా రు. ఈ నందర్భంగా కోన్లల్ గార్తుల డిజి కే నటరాజన్ తదిత రులు హాజరయ్యారు.

ఎయిర్ చీఫ్ మార్కల్ చే హవాయ్ పోర్షల్ ఆవిష్కరణ

జెంగళారు యలహంక ఎయిర్టేస్లో జరుగుతున్న అంతరాతీయ పైమానిక ప్రదర్శన చివరి రోజైన శుక్రవారం హెచ్ఎఎల్ - ఇండియన్ ఎయిరోఫోర్స్ నంన్డలు నంయుక్తం గా రూపొందించిన హవాయ్ పోరల్ ఆవిష్కరణ కార్యకమం జరిగింది. ఎయిర్బీఫ్ మార్షల్ ఆర్కిఎస్ భదూరియా ఈ కా ర్యక్రమానికి ముఖ్యఅతిథిగా హాజరయ్యారు. డిజిటల్ ఇండి యా పరికల్పనలో భాగంగా పరస్పరం సాంకేతిక సమాచారా న్ని ఎప్పటికప్పుడు వినిమయం రేసుకునేందుకు వీలుగా ఈ పోర్టల్నే రూపొందించారు. ఈ పోర్టల్ అంతర్గత సమాచా రం కోనమే ఉద్దేశించామని హెచ్ఎఎల్ సీఎండీ ఆర్ మాదవ న్ తెలిపారు. ఈ రెండు సంస్థల మధ్య ఇప్పటికే పలు ఒ ప్పందాలున్నాయని వీటిని విజయవంతంగా పూర్తితేసే దిశ లో హవాయ్ పోర్షల్ సాంకేతిక సమాచార వేదికగా ఉంటుం దని చెప్పారు. ఉభయ సంస్థలకు చెందిన పలువరు ఉన్నతా ధికారులు ఈ సందర్భంగా హాజరయ్యారు.

సీఎస్ఐఆర్, ఎన్ఎఎల్లతో బెమెల్ కీలక ఒప్పందం

బెంగళూరు, ఫిబ్రవరి 5 (అంద్రజ్యాతి): నగరంలో గుతున్న ఎయిర్షోలో భాగంగా కేంద్ర ప్రభుత్వ రక్షణా సంస బీఈఎంల్ శుకవారం పలు కీలక ఒప్పందాలు ర్పుకొంది. రెండు సీట్ల టైనర్ ఎయిర్ ప్రాక్ట్రేలకు గాను ల్ పరోనాటిక్స్ లెబ్రేటరీతోనూ, కౌన్సెల్ ఆఫ్ పైంటిఫి! డస్టీయల్ రీసెర్స్ సంస్థలతో ఒప్పందం కుదుర్చుకొం? సందర్భంగా జెమెల్ సీఎండీ ఎంవీ రాజ్శేఖర్రతో పాటు న్స్ ఏలే స్పేస్ డైరెక్టర్ ఏకే జీవాత్సవ్, ఎన్ఏఎల్ డైరెక్ట! వెంకటేష్ తదితరులు పాల్గొన్నారు.

స్పాల్ ను సందల్నించిన రాజనాథ్ సింగ్

ఎయిర్ షోలో భాగంగా ఏర్పాటైన బెమెల్ స్పాల్ను రక్షణా శాఖా మంత్రి రాజనాథ్ సింగ్ శుక్రవారం పర్య రు. బెమెల్ అధ్వర్యంలో జరుగుతున్న పలు ప్రాజెక్ట్రీల ని ఆడిగి తెలుసుకున్నారు. స్టాల్లో ఉంచిన పలు ఉత









5-2-2021

The Indian EXPRESS BEML to collaborate with CSIR-NAL



BEML Limited hassigned a Memorandum of Understanding (MoU) Bwith Council of Scientific and Industrial Research (CSIR)-National Aeronautics Laboratory (NAL) for development in the areas of advance composite and autoclaves, Minium annedaerial vehicles, Design & analysis of air graft structure and systems.

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This willheb BEML to increase its footprint in the Aerospace sector.



Brahmos Cruise Missileshines at Aero India 2021





BusinessLine

AERO INDI 0 The Runway to a Billion Opportunities 2021

Aero India 2021 an exhibition exhibiting defence capability

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Homourable Prime Minis-tar gave hirth in the con-out of Astmanithan She-ist. This year Hinductura As-ionwatical Limited (MAL) will showcass & anique fying display of its indige-

of HAL products such as LCA trainer (LIPT Trainer), HTT-60, UC. Advanced Hawk MK S12, and Civil De-220 will fly to a spacial formation presenting the spactrum of trainers and signifying self-selfficiency



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Defence Industry

BEML at Aero India 2021: Showcasing its capabilities in Defence and Aerospace Sectors



BEML is showcasing some of its prime products during AERO INDIA 2021, the biennial mega Aero exhibition, being held in Bangalore, from 3rd Feb to 5th Feb 2021. With the theme of 'Atmanirbharata', include niche products such as Transporter Landing System (TLS) and Variants of Unmanned aerial vehicles (UAV). In the indoor Stall, BEML is also displaying various equipment and critical components in the aero-space sector.

BEML's focus at AERO Show is to display its capability, promote Aerospace & Defence products and to interact with potential customers and also to explore collaborations. BEML would be signing MoUs, to enter into collaborations with major players in the Defence & Aerospace Business. BEML would also be using the opportunity to network with MSMEs and Start-ups to maximize its efforts of localization / indigenization.

TLS being displayed in BEML Outdoor Stall is a ground-based precision landing system which can improve access to airports where terrain or land constraints make instrument lending system (ILS) installation infeasible or cost-prohibitive. TLS works over any terrain using directional antennas and can be installed even on short runways ending with water / obstructions. It would be manufactured in India by BEML in collaboration with Advanced Navigation and Positioning Corporation, USA.

BEML Primoco UAV- 'One 150', the state-of-the-art UAV designed for civilian and also military uses is one of the centre pieces in BEML Indoor Stall. It is built to take off and land autonomously also in poor weather conditions. It can fly continuously for 15 hours and has a 200 kms radio range. This UAV can be used for surveillance, monitoring, boarder patrolling and law enforcement. Primaco UAV is planned to be built in India in Collaboration with Primaco, Czech Republic.

BEML is also displaying the 25 kg Class Tactical UAV being developed indigenously in collaboration with Indian Institute of Technology, Kanpur. The UAV is intended to carry versatile payloads of 3.0 kg, such as day & night carneras. It can take off and land in short runways, fly continuously for 8 hours and has 50 kms radio range.







CT TODAY

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BEML Limited, the leading multi-technology, multi-product company, is engaged in the design, development and manufacturing of a wide range of products for core sectors of economy such as Defence, Mining, Power, Infrastructure and Urban Transportation. Presently over 87% of total business is won against tough competition mainly from MNCs, while above 68% of the business comes from inhouse R&D developed products. BEML Limited has exported its products to over 68 countries.







United News of India

India's Multi Lingual News Agency

5-2-2021

BEML sign MoUs to explore, enhance business in Defence, Aerospace



Bengaluru. Feb 5 (UNI) BEML Limited, a leading multi-technology 'Schedule A' company under the Ministry of Defence, signed MoUs with 11 entities to explore and enhance the business in Defence and Aerospace Sector, in the presence of Defence Minister Rajnath Singh at the Bandhan Ceremony, AERO INDIA 2021.

The company signed MoU with the UP

Expressway Industrial Development Authority (UPEIDA) to explore the opportunities for establishing ware house storage for parts and activity center for servicing-cum-overhauling of BEML products (MRO).

Tags: #BEML sign MoUs to explore#enhance business in **Please log in to get detailed story.** Defence#Aerospace

3-2-2021



జీఈఎంఎల్ ఇన్ చార్జ్ సీఎండీగా ఎంబీ రాజశేఖర్ కు అదనపు బాధ్యత లు



బెంగళూరు, ఫిటవరి 2 (అంధజ్యోతి): కేంద్ర ప్రభుత్వ రక్షణ రంగ సంస్థ భారత్ ఎర్త్ మూవర్స్ లిమిటెడ్ (బీఈఎంఎ ల్)లో ప్రస్తుతం మైనింగ్ విభా గం డైరెక్టర్గా వ్యవహరిస్తున్న ఎంవీ రాజశేఖర్ అదనపు బాధ్య తలు చేపట్నారు. సీఎండీ డాక్టర్ దీవక్ కుమార్ హోటా పదవీ విరమణ చేసిన నేపథ్యంలో

ఆయన ఈ బాధ్యతలను తాత్కాలికంగా నిర్వహించను న్నారు. ఈ అదనపు బాధ్యతలను ఆయన సోమవా రమే స్వీకరించారని బీఈఎంఎల్ నగరంలో మంగళ వారం విడుదల చేసిన ప్రకటనలో తెలిపింది.







3-2-2021



BEML to explore opportunities under offsets, joint ventures



By Sumit Kumar Singh

Bengaluru, Feb 3 (IANS): Poised to grow reasonably well in defence business in the coming years, BEML Chairman and Managing Director M.V. Rajasekhar has said that BEML has around Rs 4,660 crore orderbook as on date and around Rs 850 crore worth of orders in the pipeline.

Rajasekhar also said during Aero India that the company will explore opportunities under offsets and joint ventures in the areas of mutual interest. Meetings have been planned with global Original Equipment Manufacturers such as Lockheed Martin, Boeing and Rosoboronexport.

Excerpts of the interview:

Q: Over the last five-and-a-half decades, BEML has been supplying quality products and services to sectors such as Mining & Construction, Rail & Metro, Defence and Aerospace. How successful has the company been in chieving its missions and goals? What are major accomplishments in the recent times?

v: Yes. We were able to achieve our short-term goals. However, some of the long-term plans are yet to be achieved and we are on the trajectory for achieving the ame. During recent times ample numbers of accomplishments has been achieved by the company.

): What are the capabilities of the newly-launched Aerospace Assembly Hangar, situated within BEML's Bangalore Complex, and the new Industrial Design :entre?

:: New Aerospace Assembly Hangar has been set up at Bangalore Complex to take up the manufacture of the Light Alloy Structures for GSLV Mk III structures. :equired infrastructures have been established to meet the stringent quality requirements of ISRO. There was focus on implementing Industrial Design and Iuman Factors in all products. It is also global benchmarking for Industrial Design and Ergonomics and integration with research and development and nanufacturing. It is also a hub for exchange of creative ideas and concepts to provide the Design-edge for better Market and User acceptance.

): How healthy is BEML's orderbook?

c. At present we are having orderbook position of over Rs 12,200 crore which will be executed by 2023-24. Over the last few years BEML's order book is very ood. With respect to defence vertical, it has seen a rising trend in performance over the last five years. BEML has around Rs 4,660 crore orderbook as on date nd around Rs 850 crore orders in the pipeline. With this orderbook position, BEML is poised to grow reasonably well in defence business in the coming years.

): How does the company support the Atmanirbhar Bharat initiative?

c Atmanirbharta is in our DNA. Over the years indigenisation has been a big plank of our strategy. Under the government's guidance, we have issued an xpression of interest on every product for seeking manufacturing and technology partnerships from reputed Original Equipment Manufacturers looking to stablish and or expand their supply chains or manufacturing base in India for the manufacture of various goods and or service business that is being imported as *ve* want to go towards zero import on whatever item is being imported. BEML has also signed a ToT with Tatra Trucks for indigenisation of cabins for military rucks.

Inder Atmanirbhar initiative, BEML is associated with IIT, Kanpur to establish a potential Industry – Research Institute relationship for joint development of 25 g class Tactical UAV for surveillance application.

urthermore, BEML is entering into an MOU with NAL to associate in the areas of Advanced Composites and Autoclaves, Mini UAV, Design and Analysis of ircraft Structures and Systems. Efforts are also being made with global OEMs to associate for indigenous design and development of Unmanned Aerial Systems hrough technology transfer.

): What are the activities by BEML to promote the Defence indigenisation?

v. We have already achieved indigenisation levels of 84 per cent in High Mobility Vehicles and entered into Transfer of Technology with Tatra Trucks for ndigenous manufacture of cabins for HMVs. Further, we have also planned for local manufacture of defence spares through joint ventures. There was evelopment of 1500HP Engine for Defence Application.

EML has taken up a project for Design, Development and Supply of 1500HP engine to Combat Vehicles Research and Development Establishment with end ser being Indian Army. The engine will be supplied to use on Future Main Battle Tank and is dsigned to work in extreme environmental conditions.

): The products of BEML are exported to more than 67 countries. Could you shed some light on the export operations? Which are the main customers and what re the main export products?

v: BEML is exploring opportunities for exporting defence products to friendly neighbouring countries like Bangladesh, Thailand etc. Apart from this, BEML has xported more than 1,100 ecoeption of the product of the globe. Our main customers are Syria, Tunisia, Saudi Arabia, Abu Dhabi, Nepal and the main xport products are HMV 8x8, HMV 6x6, Sarvatra Bridge System, Recovery Vehicles, Dozers and Excavators.

Ve have mainly exported Mining and Construction products globally. For improving the geo-strategic reach and increasing exports, we are working on various usiness opportunities in Defence, Mining and Construction and Rail and Metro segments in SAARC and Africa.

Ve are in continuous discussion with Indian Embassies and Defence Attaches with respect to business promotion and engaging local representatives and have Iready appointed representatives in Bangladesh, Tunisia, Cameroon, Thailand and are in the process of appointing more representatives across the globe. Also, *ve* are conducting various webinars and e-meetings through Indian missions abroad to promote BEML products. Webinars have been conducted through Indian issions in countries such as Kenya, Senegal, Zambia, Sri Lanka, Saudi Arabia, Abu Dhabi, and Oman. Kenya region has been allocated to us by MoD and we have Iready registered BEML branch office at Kenya.

): What are the highlights of BEML's participation at the Aero India 2021? How do you look at the expo as an opportunity to bridge new business relationships?

v: BEML is showcasing some of its prime products during Aero India, the biennial mega aero exhibition. The products, with theme of 'Atmanirbharata', include iche products such as Transporter Landing System (TLS) and Variants of Unmanned aerial vehicles (UAV). In the indoor Stall, BEML is also displaying various quipment and critical components in the aero-space sector.

EML will explore opportunities under offsets and Joint Venture in the areas of mutual interest. Keeping in view of the above, meetings have been planned with lobal OEMs such as Lockheed Martin, Boeing and Rosoboronexport.

: What are the expansion plans for BEML's business operations?

x: We are looking for growth in aerospace sector and have recently have established manufacturing facilities at our Bangalore complex. We have planned to nanufacture and supply aerospace components and aggregates for National progammes and for other DPSUs. Recently, we have engaged management onsultant firm McKinsey & Company Inc, Gurugram for devising Business-cum-Growth Plan, after obtaining Board and Ministry of Defence approval.

EML plans to associate with global leaders for manufacturing airborne structures, aircraft systems that would enable BEML reaching the level of a Lead ntegrator in the area of missile systems. In addition to this, BEML is also signing MoUs with strategic OEMs for introducing new products such as autonomous round vehicles, twin tracked carriers, light armoured dozers, aggregates for T-90 tank and others under Make-in-India initiative.





6-2-2021

INDIAN BUREAUCRACY www.indianbureaucracy.com

RFML Signed MoU during AERO INDIA



BEML Limited is a leading multi-technology "Schedule A' company under the Ministry of Defence signed of MoUswith 11 entities to explore and enhance the business in Defence& Aerospace Sector in the presence of Shri Rajnath Singh,

hon'bleRakshaMantri at the Bandhan Ceremony, AERO INDIA 2021. Shri M V Rajasekhar, CMD, Shri Suraj Prakash, Director (Finance), and Shri A K Srivastav, Director (Defence Business) were present on this occasion.

MoUs:-

With UP Expressway Industrial Development Authority (UPEIDA) to explore the opportunities for establishing ware house storage for parts and activity center for servicing come overhauling of BEML products (MRO).

With Advance Navigation Positioning Company (ANPC) for joint manufacturing of transponder landing system (TLS) for Indian armed forces, Airport Authority of India (AAI) and Oil exploration companies.

With**Primoco UAV SE, Czech Republic** for manufacturing of '150 kg class' Surveillance UAV for Indian as well as global requirements such as Intelligence based agriculture, Remote mapping, Pipeline Monitoring, Mining Support, Security & Intelligence, Disaster Management & Surveillance.

With **IIT Kanpur** for joint development and manufacturing of 25 kg class Tactical UAV for Armed forces. WithTorus RoboticPvt Ltd, Chennai for joint development Artificial Iligence (AI) based unmanned ground vehicle (UGV), Robotics, Light ght, Ingenious electric power drive system for defence and

mercial applications.

Aeronautics Laboratory (NAL) to develop in the areas of advance composite and autoclaves, Mini unmanned aerial vehicles, Design & analysis of aircraft structure and systems.

With **OutduMediatech Pvt. Ltd., Bangalore** for Artificial intelligence based vision system and face recognition system for surveillance & monitoring applications.

With SKAT Systems, Russia for joint manufacture of High Altitude UAVs for Indian and Global requirements.

With Hacklab Solutions Pvt Ltd, Bangalore for Al Based Lightning System (headlamps / fog lamps) on Heavy Earth Moving Machinery (HEMM) current and future products in order to make mare competitive.

With JSC 'Rosoboron'export, Russia for projects such as infantry combat vehicle 'Boomerang', light armored vehicle 'Strela', Auxiliary power units for T-71 / T-90 tanks, Air Defence Systems.

With SYOMKA S VOZDUHA, Russia (Shooting from Air) for manufacturing of Marine Drones and Anti Drone Systems.

With Adani Defenec Systems & Technologies Limited to provide mobility systems for armed vehicles such as wheels armored personal carriers, infantry combat vehicles and main battle tanks. Apart from development and production of Jigs and fixtures for UAVs, Air borne structures, ground handling and ground support equipment for Airports.





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Indo-Russia meet held at Aero India

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BEML showcases its capabilities

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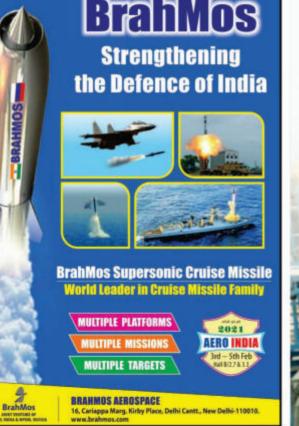
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5-2-2021



BEML signs MoU with CSIR-NAL to Develop 2-Seater

Trainer Aircraft;



During the Aero India 2021 show being held at Yelahanka Air Force Base, Bengaluru, Karnataka, **BEML Ltd** (previously Bharat Earth Movers Limited) signed a Memorandum of Understanding (MoU) with **CSIR-NAL** (Council of Scientific and Industrial Research-National Aerospace Laboratory) for development of two-seater trainer aircraft through technology transfer.

- The Two entities will also undertake Joint Development in areas of advanced composites and autoclaves, mini-unmanned aerial vehicles, design & analysis of aircraft structure & systems.
- The MoU was exchanged between A K Srivastav, Director Defence and Aerospace, BEML & R Venkatesh, Director, Business Development of NAL.
- The agreement will help BEML to enhance its presence in the aerospace sector.







BEL ONGC GAIL IREDA HAL IndianOil SJVN HPCL Coal India NCL Powergrid NTPC PFC KIOCL CONCOR DVC NALCO BSNL MECON MECL RINL-Vizag Steel AAI MCL NRDC NBCC REIL HEC REC BHEL SAIL (https://www.psuconnect.in/)

BEML Showcasing its capabilities in Defence and Aerospace Sectors

BEML would be signing MoUs, to enter into collaborations with major players in the Defence & Aerospace Business.



Bengalung BEML is showcasing some of its prime products during AERO INDIA 2021, the biennial mega Aero exhibition, being held in Bangalore, from 3rdFeb to 5th Feb. 2021. With the theme of 'Atmanirbharata', include niche products such as Transporter Landing System (TLS) and Variants of Unmanned aerial vehicles (UAV). In the indoor Stall, BEML is also displaying various equipment and critical components in the aero-space sector.

BEML's focus at AERO Show is to display its capability, promote Aerospace & Defence products and to interact with potential customers, and also explore collaborations. BEML would be signing MoUs, to enter into collaborations with major players in the Defence & Aerospace Business. BEML would also be using the opportunity to network with MSMEs and Startups to maximize its efforts of localization/indigenization.

TLS being displayed in BEML Outdoor Stall is a ground-based precision landing system which can improve access to airports where terrain or land constraints make instrument lending system (ILS) installation infeasible or cost-prohibitive. TLS works over any terrain using directional anternas and can be installed even on short runways ending with water/obstructions. It would be manufactured in India by BEML in collaboration with Advanced Navigation and Positioning Corporation, USA.

BEML Primoco UAV- 'One 150', the state-of-the-art UAV designed for civilian and also military uses is one of the centre pieces in BEML Indoor Stall. It is built to take off and land autonomously also in poor weather conditions. It can fly continuously for 15 hours and has a 200 km radio range. This UAV can be used for surveillance, monitoring, boarder patrolling, and law enforcement. Primaco UAV is planned to be built in India in Collaboration with Primaco, Czech Republic.

BEML is also displaying the 25 kg Class Tactical UAV being developed indigenously in collaboration with the Indian Institute of Technology, Kanpur. The UAV is intended to carry versatile payloads of 3.0 kg, such as day & night carneras. It can take off and land in short runways, fly continuously for 8 hours, and has a 50 km radio range.

BEML Limited, the leading multi-technology, multi-product company, is engaged in the design, development and manufacturing of a wide range of products for core sectors of the economy such as Defence, Mining, Power, Infrastructure and Urban Transportation. Presently over 87% of total business is won against tough competition mainly from MNCs, while above 68% of the business comes from in-house R&D developed products. BEML Limited has exported its products to over 68 countries.

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AEROMAG

4-2-2021

BEML Signs MoU with CSIR-NAL



A K Srivastav, Director Defence & Aerospace exchanged the copies with R Venkatesh, Director Business Development, NAL in the presence of MV Rajasekhar, CMD, BEML

BEML Limited signed a Memorandum of understanding (MoU) with Council of Scientific and Industrial Research (CSIR)-National Aeronautics Laboratory (NAL) to develop in the areas of advance composite and autoclaves. Mini unmanned aerial vehicles, Design & analysis of aircraft structure and systems.

BEML also teamed with NAL for joint development of two seater trainer aircraft through Technology of transfer (ToT).

A K Srivastav, Director Defence & Aerospace, BEML exchanged the copies with R Venkatesh, Director, Business Development, NAL in the presence of MV Rajasekhar, CMD, BEML.

This will help BEML to increase its footprint in the Aerospace sector.

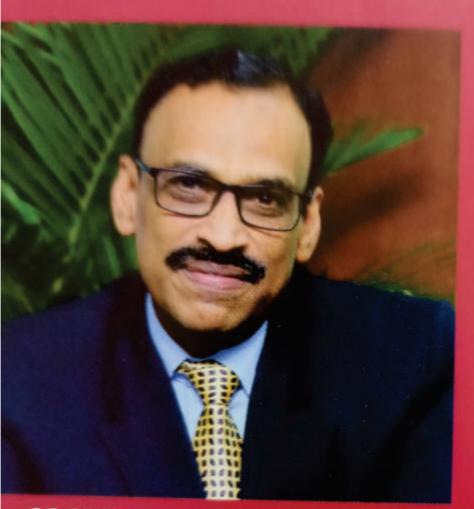








3-2-2021



M V Rajasekhar assumed charge as CMD, BEML

W Rajasekhar, Director (Mining & Construction) and member of the board of BEML Limited has taken additional charge as Chairman & Managing Director of the company from Feb 01, 2021.He succeeded Dr Deepak Kumar Hota, who retired from service on account of superannuation.





4-2-2021

2

बी ई एम एल



BEML Puts Thrust on Indigenization and Exports



"Atmanirbharta is in BEML's DNA and indigenization has been the core of our strategy over the years. We are seeking manufacturing & technology partnerships from reputed OEMs looking to establish or expand their supply chains/manufacturing base in India. Positive responses have been received and are under compilation. We aim to indigenize various goods and service business that are being imported as we want to go towards zero import status," said MV Rajasekhar, Director (Mining & Construction), who assumed additional charge as Chairman & Managing Director, BEML. In an interview with Aeromag, he talks about the company's latest business operations and expansion plans.

MV Rajasekhar Director (Mining & Construction), & additional charge as CMD, BEML

Over the last five and a half decades, BEML has been supplying quality products and services to sectors such as Mining & Construction, Rail & Metro, Defence& Aerospace. How successful has been the company in achieving its missions and goals? What are the major accomplishments in the recent times?

BEML has been able to achieve our short-term goals. However, some of the long-term plans are yet to be achieved and we are on the trajectory for achieving the same. During recent times, numerous accomplishments were achieved by the company. Some of them are:

· Designed, Developed and supplied India's biggest Excavator and Dump Trucks to Coal India and Bulldozer to Nalco.

· BEML received prestigious orders from VSSC, ISRO for manufacture of 8 types of Light alloy structures for GSLV. This is first of its kind for BEML to venture into space domain to manufacture critical launch vehicle structures thereby supporting



ISRO for their upcoming launch mission including "Mission Gaganyan". Required facilities including an assembly hangar have been set up at Bangalore Complex.

· BEML received orders for supply of more than 800 BEML HMV vehicles and 1512 Mine Ploughs for Tank T-90

· Overhauling of two Armoured Recovery Vehicle (ARV) has been taken up at KGF Division which is yet again first of its kind in BEML.

. So far, more than 8200 High Mobility Vehicles, 350 Armoured Recovery Vehicles, 3200 Trailers / Wagons, 6 sets (330 nos.) of Pontoon Bridge Systems, 7 sets of Sarvatra Bridge systems, 18000 Rail Coaches and 700 EMUs, 1650 Metro cars, 32000 Mining & construction equipment and 27000 engines.

Defence Minister Rajnath Singh, unveiled 'Driverless Metro Car' manufactured by BEML for Mumbai Metropolitan Region Development Authority (MMRDA) recently. Could you talk more about the project? How strong are the business operations of BEML in rail and metro sectors?

Indigenously designed and developed state-of-the-art Driverless Metro trains are being manufactured at BEML's Bangalore Complex. The cars will operate on 25 kV AC traction power and equipped with CCTV surveillance and with the provision

to carry passenger bicycles in the coaches. The cars are made up of stainless-steel body with a capacity of carrying 2280 passengers in 6 cars Metro train-set.

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 and the supply is scheduled progressively up to January 2024. On 29 January 2021, Chief Minister of Maharashtra unveiled the First Train on Metro Lines for 7 & 2A designed and supplied by BEML Limited.

What are the capabilities of the newly-launched Aerospace Assembly Hangar, situated within BEML's Bangalore Complex, and the new Industrial Design Centre?

New Aerospace Assembly hangar has been set up at Bangalore Complex to take up the manufacture of the Light Alloy Structures for GSLV Mk III structures. Required infrastructures have been established to meet the stringent quality requirements of ISRO.

The Industrial Design Centre focuses on implementing Industrial Design & Human Factors in all Products. It undertakes global benchmarking for Industrial Design and Ergonomics and integration with R&D and manufacturing. It is a hub for exchange of creative ideas and concepts to provide the 'Design-edge'









Feb-Mar-2021



बीईएमएल निर्मित बारुदी सुरंग हटाने वला माइनिंग प्लाउ

डिफेस मॉनिटर ब्यूरो

रत अर्थमूवर्स लि. एक रक्षा सार्वजनिक उपक्रम है जिसकी स्थापना मई 1964 में की गई थी। बेंगलुरू में मूलतः इसकी स्थापना रेल के डिब्बे, पुर्जे और खनन उपकरणों को तैयार करने के लिए किया गया था। कंपनी का आंशिक विनिवेश हुआ है और टोटल इक्विटी का 54 फीसदी भारत सरकार के अधीन है।

यह कंपनी रक्षा, रेलवे, पावर, खनन और इँफ्रास्ट्रक्चर के क्षेत्र में देश की सेवा कर रही है। शुरू में यानी 1965 में कंपनी का कुल कारोबार मात्र 5 करोड़ रुपये का था और आज यह रु. 3500 करोड़ से ज्यादा का हो गया है। यह कंपनी मुख्यतः तीन क्षेत्रों में कार्यरत है-खनन और निर्माण, रक्षा और रेल व मेट्रो। रक्षा के क्षेत्र में बीईएमएल जिन उत्पादों को तैयार करता है, उनमें टाट्रा आधारित उच्च शक्ति के टूक, रिकवरी वाहन, ब्रिज प्रणाली, मिसाइलों के लिए वाहन, टैंकों को ले जाने के लिए ट्रेलर, सैन्य कार्य के लिए रेलवे वैगन, बारूदी सुरंगें हटाने के लिए जमीन खोदने वाले विशेष इल, दुघंटना में आग बुझाने के बाहन, बर्फ काटने की मशीन, विमान को खींचने वाले टोइंग ट्रैक्टर, विमान में हथियार लगाने के काम आने वाली ट्रॉली आदि शामिल हैं।

बीईएमएल के बने टाट्रा ट्रकों पर ब्रह्मोस मिसाइल के अलावा कई तरह की मिसाइलें लगाई जाती हैं। इसके अलावा ऐसे ट्रक युद्ध में सैन्यापूर्ति के लिए काफी उपयोगी साबित हुए हैं। हाल ही में बीईएमएल को उच्च गतिवान वाहनों की आपूर्ति के लिए 758 करोड़ रुपये मूल्य के ऑर्डर रक्षा मंत्रालय से मिले हैं। ये ट्रक और वाहन सेना की साजा-सामान लाने ले जाने की क्षमता में काफी वृद्धि करेंगे और सेना एक स्थान से दूसरे स्थान तक तेजी से पहुंच सकेगी। इन वाहनों में सेना की टुकड़ियां, बख्तरबंद वाहन, गोला-



बीईएमएल निर्मित टाट्रा ट्रक जो सेना के लिए काफी उपयोगी वहन है

बारूद, रसद आदि रणक्षेत्रों तक पहुंचाए जाते हैं। बीईएमएल निर्मित वाहन पर्वतीय, बर्फीले, रेगिस्तानी, दलदली आदि कठिन इलाकों के लिए काफी उपयोगी हैं। इन वाहनों का निर्माण केरल में पलक्कड प्लांट में किया जाएगा और साल भर में सेना को उपलब्ध करा दिए जाएंगे।

भारत अर्थ मूवर्स लि. द्वारा बुलडोजर, खुदाई की भारी मशीनें (Excavators), डंपर, जल छिड़काव उपकरण, मेट्रो कार, रेलवे कोच, ब्रॉड गेज रेलवे बस आदि भी बनाए जाते हैं। बीईएमएल के उत्पादों की बिक्री और सेवा के लिए इसका एक विशाल मार्केटिंग नेटवर्क भी है। इस कंपनी के उत्पादों का 67 देशों में निर्यात भी किया जाता है। गुणवत्ता में और सुधार तथा नई टैक्नोलॉजी को आत्मसात करने के लिए बीईएमएल आर एंड डी पर भी काफी धन निवेश करता है। ●

50 Defence Monitor February - March 2021 www.bharatdefencekavach.com





geopolitics Show daily

2-2-2021

BEML Showcasing capabilities in Defence and Aerospace sectors

BEML is showcasting some of its prime products at Aero India 2021. With the theme of 'Atmanitharata', there are niche products such as Transporter Landing System (TLS) and Variantis of Unmanned Aerial Vehicles (UAV). In the indoor Stall, BEML is also displaying various equipment and critical components in the aerospace sector.

BEMIL's focus at the Aero Show is to display its capability, promote Aerospace & Defence products, to interact with potential customers and also to explore collaborations. BEMIL would be signing MoUs to enter into collaborations with major players in the Defence & Aerospace business. BEMIL would also be using the opportunity to network with MSMEs and start-ups to maximize its efforts of localization/indigenination. TLS being displayed at BEML Outdoor Stall is a ground-based precision landing system which can improve access to alrports where terrain or land constraints make instrument lending system (ILS) installation infeasible or cost-prohibitive. TLS works over any terrain using directional antennas and can be installed even on short runways ending with water/obstructions. It would be manufactured in India by BEML in collaboration with Advanced Navigation and Positioning Corporation, USA.

and Positioning Corporation, USA. BEML Primoco UAV-One 1507, the state-of-the-art UAV designed for civilian and also military uses is one of the centrepleces at BEML Indoor Stall. It is built to take off and land autonomously also in poor weather conditions. It can fly continuously for 15 hours and has a 200 kms radio range. This UAV can be used for surveillance, monitoring, boarder patrolling and law enforcement. Primaco UAV is planned to be built in India in Collaboration with Primaco. Cxech Republic.

BEML is also displaying the 25 kg Class Tactical UAV being developed indigenously in collaboration with Indian Institute of Technology, Kanpur, The UAV is intended to carry versatile payloads of 3.0 kg, such as day & night cameras. It can take off and land in short runways, fly continuously for 8 hours and has 50 kms radio range. BEML Limited, the leading multi-

BEML Limited, the leading multitechnology, multi-product company, is engaged in the design, development and manufacture of a wide range of products for once sectors of the economy such as



Defence, Mining, Power, Infrastructure and Urban Transportation. Presently over 87 per cent of total business is wen against tough competition mainly from MNCs, while above 68 per cent of the business comes from in-house R&D developed products. BEML Limited has exported its products to over 68 countries.

Conceptualised and designed by NEWSEYE MEDIA PYT, LTD., R-9, 1º Floor, Pratap Market, Jungpura B, Near Post Office, New Detry -110014, Tel: 3810159332







बेंगलूरु के यलहंका एयखेस पर चल रही 'एयरो इंडिया–2021' में बीईएमएल के पैवेलियन का दौरा रक्षा मंत्री राजनाथ सिंह किया। उनका गर्मजोशी से स्वागत संस्थान के सीएमडी एमवी राजशेखर ने किया। इस मौके पर रक्षा मंत्री को बीईएमएल के रक्षा और एयरोस्पेश बिजनेस सेक्टर में उपकरण, घटकों की क्षमता के बारे में जानकारी दी।







Feb-Mar-2021



BRITISH COMPANY PEARSON Engineering Partners with Beml To Supply 1,500 track width Mine Ploughs to Indian Army

New Delhi. British Company Pearson Engineering will be supplying over 1,500 Track Width Mine Ploughs (TWMP) to the Indian Ministry of Defence. The order, which will see the Pearson plough integrated with the T-90 S/ SK tank, will be delivered in partnership with Defence PSU BEML Limited. With previous experience in integrating counter-mine capabilities with T-72, T-90, Arjun Mk1 Main Battle Tank and BMP-2 Armoured Vehicles, Pearson Engineering is proud to be a current supplier to the Indian Army. Dr Deepak Kumar Hota, Chairman and Managing Director of BEML, said, "We are proud to be associated with MoD to enhance the combat capabilities of the Indian Army. This is another example of BEML's capability to meet the specific requirements for our armed forces. BEML signifies the true spirit of Make in India." Richard Beatson, Business Development Director at Pearson Engineering, said, "We are delighted to have received this important order alongside our partners at BEML. Having been committed to developing capability for India for many years, we look forward to further developing our relationships, both with the end-user and Indian industry." The track width mine plough will enable the Indian Army's T-90 tanks to move through mined areas, while remaining highly mobile. Pearson Engineering has a long heritage in the supply and integration of mine ploughs to Armed Forces around the world.





2-2-2021

Aero India 2021: Defence strengths of BEML on display

Defence PSU BEML is slated to showcase a host of its prime products at Aero India 2021.



Metal birds manoeuver during the Aero India 2019 air show in Bengaluru. (File Photo | EPS)

By Express News Service

BENGALURU: Defence PSU BEML is slated to showcase a host of its prime products at Aero India 2021. With the theme 'Atmanirbharata', the company's niche product line-up such as Transporter Landing System (TLS) and variants of unmanned aerial vehicles, will be on display. In the indoor stall, it is displaying various equipment and critical components in the aerospace sector, such as the BEML Primoco UAV-'One 150', which is designed for civilian and military use.

"BEML's focus at the air show is to display its capability, promote Aerospace & Defence products and interact with potential customers and explore collaborations. BEML would be signing MoUs, to enter into collaborations with major players... The company would also be using the opportunity to network with MSMEs and startups to maximise its localisation/indigenisation efforts," a release said.

Meanwhile, MV Rajasekhar, Director (Mining & Construction) and member of the board of BEML Limited took additional charge as Chairman & Managing Director of the company as on February 1, 2021. He succeeded Dr Deepak Kumar Hota.







9-2-2021

Frontline

BEML signs MOU to co-develop two-seater trainer aircraft and other high-tech products in the aerospace sector at the Aero India 2021 air show

With a turnover of more than Rs.3,500 crore, defence public sector enterprise (DPSE) BEML Limited (formerly Bharat Earth Movers Limited) plays a pivotal role with top-draw services in core sectors like defence, railways, power, mining, and infrastructure and is India's leading mining and construction equipment manufacturer, offering a comprehensive range of mining machinery. Even while continuing to ramp up production and sales of its hydraulic excavators, bulldozers and dump trucks, the DPSE has extended its gaze to the aerospace sector over the past dozen years in a bid to take advantage of the global and domestic opportunities in the fastexpanding aerospace market.

At Aero India 2021, BEML's foray into the aerospace business was the cynosure of all eyes, with the company announcing a joint venture with the Council of Scientific and Industrial Research (CSIR)–National Aeronautics Laboratory (NAL) to co-develop a two-seater trainer aircraft through the transfer of technology (ToT) route. Also on display at Aero India 2021 were BEML's unmanned aerial vehicles (UAVs), such as the Primoco UAV One 150, which is designed for civilian and military use, and two other smaller UAVs.

The company also showcased its Transporter Landing System (TLS) and a variety of equipment and critical components in the aerospace sector. The TLS is a ground-based precision landing system which can improve access to airports where terrain constraints make instrument landing system (ILS) installation infeasible or prohibitively costly. The TLS works over any terrain using directional antennas and can be installed even on short runways ending with water or other obstructions. BEML would be manufacturing the TLS in India in collaboration with the United States-based Advanced Navigation and Positioning Corporation.

Talking to *Frontline*, BEML's M.V. Rajasekhar, Director, Mining and Construction, (he has also taken additional charge as Chairman and Managing Director of the company), and A.K. Srivastav, Director, Defence, were of the view that unmanned aerial vehicles were the future.

Said Rajasekhar: "UAVs are a totally unexplored sector and business. Not only will they find great use in military applications both for surveillance and in an offence mode given that future wars will be unmanned and





Frontline

9-2-2021

remote controlled, but also in civilian applications in areas like aerial mapping, reconnaissance, remote weather watch, and so on. BEML has entered into an agreement with Indian Institute of Technology Kanpur to develop a 25-kg class tactical UAV, which has a range of 200 km and an endurance in excess of three to four hours. The Primoco UAV, which we are developing along with Primoco UAV SE of the Czech Republic, has an endurance of 15 hours and a range of 200 kms. The 'BEML Primco One 150' is built to take off and land autonomously even in poor weather conditions. It can fly continuously for 15 hours, has a payload capacity of 1–30 kgs and has a 200 km-radio range. This UAV can be used for surveillance, monitoring, border patrolling and law enforcement. The platform is ready, with BEML and Primoco working to fine-tune it to Indian conditions. We are now looking at trials by potential customers."

BEML has entered into a partnership with the Indian Institute of Technology Kanpur for joint indigenous development and manufacture of a 25-kg class tactical UAV for the Armed forces. BEML has also signed a Memorandum of Understanding (MoU) with SKAT Systems, Russia, for joint manufacture of high altitude UAVs for Indian and global requirements and another with S'YOMKA S VOZDUHA, Russia, for the manufacture of marine drones and anti-drone systems.

Rajasekhar estimates that there will be a demand for around 50,000 to 100,000 small to big UAVs from both the military and civil sectors. He disclosed that BEML has also ventured into the space arena, manufacturing products for ISRO's Geosynchronous Satellite Launch Vehicle (GSLV) Mark III.

At Aero India 2021, BEML signed an MoU with CSIR–NAL for cooperation in the areas of advance composite and autoclaves, mini unmanned aerial vehicles and design and analysis of aircraft structure and systems. This will help BEML to increase its footprint in the aerospace sector.

Also, on display at Aero India 2021 was BEML's Medium Bullet Proof Vehicle (MBPV)–MkII, a boon for paramilitary forces like the Border Security Force (BSF) and the Central Reserve Police Force (CRPF). The bullet proof vehicle





9-2-2021

Frontline

protects crew and troops from ballistic arm fire, hand grenades and fragment simulated projectiles, allowing troops to be transported and made operational in any counter-insurgency environment.

BEML is offering the Indian Army their Artificial Intelligence (A.I.)–powered Medical Health Diagnostic System (MHDS), a mobile health and diagnostic station housed in a 20 feet container on a high mobility platform (the BEML TATRA 8x8/6x6 truck). In order to cover the medical diagnostic needs of troops in forward posts, especially in high altitude areas, the MHDS diagnostic station has a plethora of high–tech medical equipment.

During the Aero India 2021 air show, BEML entered into a number of MOUs with foreign and Indian companies. It has also entered into an MoU with Adani Defence Systems & Technologies Limited to provide mobility systems for armed vehicles such as wheels, armoured personal carriers, infantry combat vehicles, and main battle tanks, in addition to the development and production of jigs and fixtures for UAVs, air-borne structures, ground handling, and ground support equipment for airports.





6-2-2021





BEML signs MoU with CSIR-NAL

February 09,2021



BEML Limited, operating in three verticals -- defence and aerospace, mining and construction and rail and metro signed a Memorandum of understanding (MoU) with Council of Scientific and Industrial Research (CSIR)-National Aeronautics Laboratory (NAL) to develop in the areas of advance composite and autoclaves, mini unmanned aerial vehicles, design and analysis of aircraft structure and systems.

BEML has also teamed up with NAL for the joint development of two-seater trainer aircraft through Technology of transfer (ToT). At the Aero Show, Bangalore, A K Srivastav, Director Defence and Aerospace exchanged the copies with R Venkatesh, Director Business Development, NAL in the presence of MV Rajasekhar, CMD, BEML.

According to the official news release, this contract will help BEML to increase its footprint in the aerospace sector.







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A start-up with promise

Start-ups along with Micro, Small and Medium Enterprises (MSMEs) are go-ing to play a pitotal role in building a ro-bust Indian Defence Ecosystem, Said the Managing Director (MD) of a Tamil Nadu-based Indian start-up in defence. "We are happy that the Government of India re-cently has allowed start-ups to be part of building Indian defence ecosystem. We have an emotional and passionate con-nect towards this journey." said R Ja-yaraghavendhar, MD, Mwiven Infra Tech virt.td. Mwiven has a 10-vear agreement with

yaraphavendhar, MD, Mwiven Infra Tech Pvr Ltd. Mwiven has a 10-year agreement with SRPC Joint-Stock Company (ISC), and is working on second generation anti-tank missile, and with value addition the com-pany is upgrading the existing systems. Mwiven is working towards adding Op-tics and making these second-generation anti-tank missiles more accessible. The company is working with the Indian Army and the Ministry of Defence for Make 1 undia plator. We have just been sanctioned as design and development agency for de-fence (MoD). Government of India. We are an agency for modern development which makes India future combar teady. 'Jayaraghavendhar quipped.' Our design philosophy is to design a product or ser-vice which has a shell-life of at least 15 years, of manufacturing. Every shot Counts and it should count after 15 years. Our process is small but a robust one,''

AR

Lockheed Martin offers Javelin missile through JV

THE JAVELIN Joint Venture, a partnership of Raytheon Mis-siles & Defense and Lockheed Martin, is offering the Javelin anti-tank guided missile to the Indian Ministry of Defence through various

Two of the programmes Javelin Joint Venture is competing for include the Indian Ministry of De-fence's procurement of the next-gen-

Include the indian Ministy of De-fence's procurement of the next-gen-eration dismounted firs-and-forget Anti-TanK Guided Missile solution and the Wheeled Amoured Fighting Vehicle opportunities, the Joint Venture is offening Javelin — a ver-satile one-man-portable and plat-form-employed anti-tank and multi-target precision weapon system. Javelin's fire-and-forget capability, which extends to the full 4-kilometre range in most operational conditions, greatly increases the survivability of of 55 metres makes it an ideal weapon for urban or mountainous

बी ई एम एल

manufacturers, in pursuit of anti-tank guided missile integration. The team is prepared to support with a combined solution should the customer express further interest or progress towards the next steps. To fulfill potential future require environments. Javelin can also svitch between top-attack and direct-attack modes. Javelin's lethality is effective against any currently fielded Main Battle Tanks. Javelin's Multi-Purpose Warhead is also lethal against light armour, irregular targets, structures, caves and personnel. For the Wheeled Armoured Fight-ing Vehicle programme, the Javelin joint Venture is working with Ashok Leyland, and other Indian vehicle environments Javelin can also switch

To fulfill potential future require-ments of the Indian Ministry of De-fence, last year the Javelin Joint Ven-ture signed a Memorandum of Understanding with Bharat Dynam-ics Limited, a leading Indian guided

FLYING DISPLAY AT THE 13TH EDITION OF AERO INDIA

2.9

weapon system manufacturer with 50 years of experience. The MOU leads the way for the two companies to explore potential, future co-pro-duction of the Javelin anti-tank missile system

sile system. Since signing the MOU, the Javelin Joint Venture has been working with Bharat Dynamics Limited to develop Technology Control Plans and iden-tify which Javelin components could be manufactured in India. The Javelin

be manufactured in India The Javelin Joint Venture is also working to get export autorisation from the U.S. State Department. In support of Make in India, the Javelin Joint Venture is also prepar-ing for indigenous production by in-dian industry. The Joint Venture regu-larly meets with industry to explore opportunities and has made progress toward qualification of Indian industry as suppliers of components for the programme. This will result in access to a global defence supply chain, cre-ating extensive export opportunities of Indian industry.

America's B-1B Lancer heavy bomber, of the 28th Bomb Wing based



Defence Minister Rajnath Singh holds engaging discussions at the BAE Systems stand engaging discussion at Aero India 2021



velcomes Raksha Mantri Rajnath t its stand and showcases its hanging package for the Rafale manufactured by Dassault Aviation ustrial activities in India, in line with 'Make in India' initiativ

RAC MiG enters into a strategic partnership with Aviatech Enterprises

AEPL will be the in-country partner for RAC MiG for post-warranty Product Support for MiG 29K/KUB aircraft, Associated Systems,

The above Agreement is in line with the 'Make in India' policy under the 'Atmanithbar Abhiyan' vision of the GOI. The Agreement has been conclude the GOI. The Agreement has been conclude and the spirit of 1 Inter-Gov-ernmental Agreement (IGA)' signed between 001 and Russian Federation in September 2019. It is also in line with the area of focus of AF to engage with the Industry to set up repair and overhaul (ROH) facilities within India for house MRO facilities, thereby leading to reduced timeframes for repair and en-hanced operational availability of assets.

Rolls-Royce committed to partnering with India on its goals: Kishore Jayaraman

NDIA IS at the right juncture to build a wibrant local defence industry ecosystem that could support both domestic and export demand. With a mix of defence pub-lic sector undertakings and private compa-nets, as well as research capabilities and manufacturing set-ups, India has a huge de-fence industrial base. This provides an ex-cellent opportunity to build and/or scale un-an industrial base centred on indigenous manufacturing. Co-creation and subse-quent manufacturing for India and for the world, is a goal we can aspire to achieve in this sector.

India today has the width and the weight to invest in co-creation programmes through collaboration with willing global players with the goal to co-develop relevant technologies and IP in critical areas. With a to invest in co-creation programmes through callboardon with willing global payers with the goal to co develop relevant technologies and IP in critical areas. With a co-owned IP in mareas of strategic impor-tance, not only can India commercialise many years of capability development and



an. President India Kishore Jayaraman, Presiden & South Asia, Rolls-Rovce

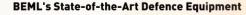
New Delhi

co-manufacturing, Rolls-Royce is commit-ded to partnering India's progress. We be-lieve the future will be all about Creating india' in collaboration with willing global players, with India co-owning the In-ellectual Property (IP) in area so forstregic importance. This will catapult India's vision or create a strong ecosystem and commer-cialise production locally, and eventually use this base to boost global supply chain and export capabilities. Additionally as India progresses towards Atmanithharta', it must embrace technol-goy at an increasing pace across all spheres of industry and society. Specifically, in the evolve from a regional power to a global bower will need to be coupled with the cre-ation of well-defined initiatives focused on indigenisation and self-reliance, driven by technology at this core.

technology at its core.

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AATMANIRBHARATA पूर्णतम





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GSE, STTE in Navy's inventory

tic and Supply chain issues on 24X7 basis, thus enhancing the availability of the aircraft and associated systems."





5-2-2021



Raksha Mantri Visited BEML Pavilion @ AERO INDIA 2021



Bangalore, 06 February 2021 : Shri Rajnath Singh, Hon'ble Raksha Mantri Visited BEML pavilion at AERO INDIA 2021. On arrival he was warmly greeted by Shri MV Rajasekhar, CMD and shown around the equipment, components and briefed about the BEML's Capabilities inDefenec & Aerospace Business Sector.

CDS General Bipin Rawat Visited BEML Stall @ AERO INDIA 2021

Bangalore, 06 February 2021 : The Chief of Defence Staff of the Indian Armed Forces (CDS) General BipinRawat, PVSM, UYSM, AVSM, YSM, SM, VSM, ADC Visited the BEML Stall at AERO INDIA 2021 He took keen interest about the exhibited equipment such as unmanned vehicle such as BEML Primoco UAV and BEML IIT Kanpur 25 kg class tactical UAV.

Shri MV Rajasekhar, CMD & Shri AK Srivastav, Director Defence business were present during his visit.



NEW FRONTIERS, NEW DREAMS