



2023

AERO INDIA

The Runway to a Billion Opportunities

15th February 2023

West End Court, Taj West End, Bengaluru,
Karnataka, India



BANDHAN

CONTENT

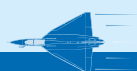
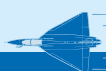
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PRODUCT LAUNCH



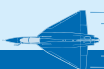


Name of Entity	Description/Title of Event
Astra Microwave Products Limited	Software Defined NAVIC / GPS receiver module based on indigenously developed processor
Astra Microwave Products Limited	Indigenously built "Counter Drone Radar" based on technology from DRDO
Bharat Electronics Limited (BEL)	<p>The HF SDR radio is advanced software defined radio in compliance with SCA 4.1 architecture.</p> <p>The radio is lightweight 20 W transmit capable radio. It provides a complete solution to the short-range communication requirements in the crowded HF band and long range communications beyond line of sight. The radio provides Voice, Data, Flash message communication in Clear, Secure and Frequency hopping modes. The radio is built with advanced low bit rate voice coders for reliable communication under extremely channel fading conditions. Communication reliability is improved by means of Automatic link establishment, which enable real-time selection of optimum channel frequency based on 2G-ALE and 3G-ALE features.</p> <p>The radio can be used with wide range antennas, including lightweight foldable whip for portable operation, dipole, long wire and many other broadband antennas for static operation.</p>
Bharat Electronics Limited (BEL)	<p>Goniometer is part of any Integrated Observation and fire control monitoring system for day time or night time use by the Artillery. The Goniometer system functions include acquisition and management of target bank and Precise North finding with the help of celestial bodies. Goniometer measures the Azimuth and Elevation angles for computation of Target Co-ordinates. The system's computer which is part of the goniometer enables to move the observation systems mounted on it up, down and sideways, as well as to feed data into the system and read data from it. The Goniometer system functions include acquisition and management of target bank and Precise North finding with the help of celestial bodies.</p> <p>It also interfaces with the Artillery Thermal Imager for Long range (ARTIMLR), Laser range Finder (LRF), Global Positioning system (GPS), Digital Magnetic Compass (DMC), Keyboard, LCD Panel and all other external Man/Machine interfaces</p>
Bharat Dynamics Limited (BDL)	<p>JISHNU: Jishnu, a Drone Delivered Missile, is light weight and miniaturized missile targeted for soft skinned targets. It has a range of 1.5 km with a flight time of 9 seconds. The missile can be semi-automatic or completely autonomous based on the systems configurations</p>





Name of Entity	Description/Title of Event
Bharat Dynamics Limited (BDL)	VLSRSAM (Vertically Launch Short Range Surface to Air Missile): The Vertical Launched – Short - Range Surface to Air Missile or VL – S R SAM is a next - generation, ship-based, all-weather, air defense weapon which can be used by Navy as a quick reaction point defense against supersonic sea skimming targets like aircrafts and UAVs. The Missile has a smokeless propulsion system with all-weather capability. It has a highly agile configuration with State-of-the-art Electronic Counter-Counter Measures features
Bharat Dynamics Limited (BDL)	SAL Seeker ATGM for BMP II: Semi-Active Laser Seeker based Anti-Tank Guided Missile for BMP - II is a subsonic missile with a range of 4000 metres and flight time of 25 seconds. The missile weighs 23 kgs with the launch tube and can be used in different kinds of terrains to incapacitate the moving and stationary targets such as tanks and Infantry Combat Vehicles
Munitions India Limited (MIL)	9 mm sub-sonic ammunition
ideaForge Technology Limited	BFT on Ios: BlueFire Touch, our Ground Control Station (GCS) software, is built to plan and command both mapping and surveillance missions with the ability to pre-plan missions based on operational area and target locations via waypoint based navigation.



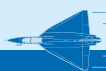


TRANSFER OF TECHNOLOGY





Name of Entity	Name of Entity	Description/Title of Event
Hindustan Aeronautics Ltd. (HAL)	CSIR-NAL	Entering into Agreement for Licensing of Design Know How of Fin & Rudder for LCA Tejas.
Bharat Dynamics Limited (BDL)	Research Centre Imarat (RCI), DRDO	Transfer of Technology (ToT) of Ceramic Radome (GELCAST Process) Technology
BEML Limited	R&DEE, DRDO	BEML proposes to enter into License Agreement for Transfer of Technology (ToT) with R&DEE, DRDO for development and supply of TRAWL Assembly for T-72/T-90 Tanks



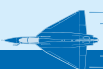
MAJOR ANNOUNCEMENT



Name of Entity	Name of Entity	Description/Title of Event
Krasny Defence Technologies Ltd	Keltron	Formation of a Joint Venture with an Indian Company with expertise and facilities for electronic manufacturing, for taking up manufacturing of high end sensors and advanced electronic equipment for defence sector under "Make in India" initiatives
Krasny Defence Technologies Ltd	JSC MEEC	General Partnership Agreement for product support of weapons and sensors manufactured by the Russia OEMs under the umbrella company of JSC MEEC, through the Indian company Krasny Defence Technologies Ltd. The range of services includes repairs / upgrades and logistic supports including services of OEM specialists for these equipment through the Indian company.
Krasny Defence Technologies Ltd	JSC NPF Meridian	Magazine Fire Fighting System (MFFS) for Naval Ships, under the design and manufacturing collaboration with Russian OEMs would be manufactured in India by Vimal Fire Krasny Pvt Ltd, at their facilities in Baroda, Gujrat. JSC NPF Meridian is the leaders in MFFS in the world. As part of the Make in India initiatives of the GoI, MoD, the Russian side has agreed to collaborate with the Indian company.
Larsen & Toubro Limited	Centre for High Energy Systems & Sciences (CHESS)	Handing over Licensing Agreement for Transfer of Technology
Astra Microwave Products Ltd.		Handing over of "Phase Array Auto Track Telemetry System" PATM-II to Director ITR, DRDO
BSS Materiel Limited	Pegasus Engineering, an ADUSEA Inc. Division (USA)	Defence, Government of India, intends to procure quantity 570 Numbers Logistic Drones for the Indian Army. Two versions of Logistic Drones are envisaged ie Logistic Drones (Standard)(S) for deployment upto 12000 ft and Logistic Drones (High Altitude) (HA) for deployment above 12000 ft. Indian Army seeks Logistic Drones for carrying out logistic tasks towards Last Mile Delivery for forward troops deployed along the border areas with capability of operation in wind/gust condition, rain/Snow etc.



Name of Entity	Name of Entity	Description/Title of Event
Bharat Electronics Limited (BEL)	Cisco Commerce India Pvt. Ltd	To have long term and strategic relationship between the Parties. The cooperation shall provide BEL access to Cisco technology, hardware and software, to further certain initiatives, including joint customization and product lifecycle support for various projects of BEL
Bharat Electronics Limited (BEL)	M/s Elbit Systems EW and Sigint-Elisra Ltd (Elbit), Israel	For delivery of workshare, testing, integration and commissioning of Instrumented EW Range (IEWR) on an agreed work share is to be supplied to Indian Air Force for which M/s BEL, India shall be the prime contractor and M/s Elbit, Israel shall be the principle sub-contractor.
Bharat Electronics Limited (BEL)	NIT Surathkal, Karnataka	Cooperation in Research Collaboration, Technology Development and Technical Solutions
Bharat Electronics Limited (BEL)	Goa Shipyard Limited,Goa	Business co-operation for Export for identified products/ systems
Bharat Electronics Limited (BEL)	Thales Reliance Defence Systems, Nagpur	Frame Supply agreement between BEL and M/s TRDS for manufacture and supply of T R Modules, Radar LRU's and Micro Modules
Bharat Electronics Limited (BEL)	SAAB Sweden	Master Development Agreement between BEL and M/s SAAB for manufacture and supply of Shelters.
Bharat Electronics Limited (BEL)	Arpège SAS (A Rohde & Schwarz Company), France	The Teaming Agreement between M/s Bharat Electronics Ltd, India (BEL) and M/s Arpège SAS (A Rohde & Schwarz Company), France to cooperate for the Global Mobile Personal Communication System (GMPCS) monitoring solution for the ongoing Integrated Electronic Warfare (IEW) programs for Deserts and Plains for PMO Suraj, Ministry of Defence with BEL as the Team leader and M/s Arpège as the Team partner.
Bharat Electronics Limited (BEL)	Schmid Telecom, Zurich	ToT agreement is signed between M/s SCHMID TELECOM ZURICH and BHARAT ELECTRONICS LTD for the manufacturing of Voice Communication System (VCS) for Civil ATC and addressing of various business requirements from AAI and International airports (USA, Turkey, Greece, etc.). VCS for Civil ATC by SCHMID is a IP based voice communication system complying to ICAO and EUROCAE standards.





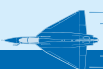
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Bharat Electronics Limited (BEL)	Elbit Systems EW and SIGINT – Elisra	TCA for Unified Receiver Exciter Processor (UREP) of D29 System with Elbit Systems EW and SIGINT – Elisra, Israel.
Bharat Electronics Limited (BEL)	Electronics and Radar Development Establishment (LRDE)	Licensing Agreement for Transfer of Technology (LAToT) of Air Defence Fire Control Radar (ADFCR) - Atulya
Bharat Electronics Limited (BEL)	Electronics and Radar Development Establishment (LRDE)	Licensing Agreement for Transfer of Technology (LAToT) of Counter Drone System (CDS)
Bharat Electronics Limited (BEL)	Electronics and Radar Development Establishment (LRDE)	Licensing Agreement for Transfer of Technology (LATOT) of Weapon Locating Radar (WLR) Swathi
Bharat Electronics Limited (BEL)	Naval Science & Technological Laboratory (NSTL), Vizag	LAToT for high capacity Li-Ion battery (HCLBT) is to be signed with NSTL, Vizag.
Bharat Electronics Limited (BEL)	Centre for Artificial Intelligence and Robotics (CAIR)	LAToT for Software for Outdoor Perimeter System to be signed with CAIR, DRDO.
Bharat Electronics Limited (BEL)	Defence Electronics Research Laboratory (DLRL)	ToT of Shakti EW System from DLRL DRDO to BEL Hyderabad Unit for all system units, Bill of Material, Test procedures, integration & offering methodology.
Bharat Electronics Limited (BEL)	Defence Electronics Research Laboratory (DLRL)	ToT of Nayan COMINT system from DLRL DRDO to BEL Hyderabad Unit for all system units, Bill of Material, Test procedures, integration & offering methodology.
Bharat Electronics Limited (BEL)	Defence Electronics Research Laboratory (DLRL)	ToT of Modern ESM System (Varuna) from DLRL DRDO to BEL Hyderabad Unit for all system units, Bill of Material, Test procedures, integration & offering methodology.
Bharat Electronics Limited (BEL)	C-DoT, Bangalore.	ToT Agreement signed with CDOT for Stackable Terabit Router (STBR). It is complying to all major IETF standards.
Bharat Electronics Limited (BEL)	C-DoT, Bangalore.	ToT Agreement signed with CDOT for 24 port L2/L3 Optical Switch. It is complying to all major IETF standards.



Name of Entity	Name of Entity	Description/Title of Event
Bharat Electronics Limited (BEL)	DRDO/RCI, Hyderabad	Licensing Agreement for Transfer of Technology (LAToT) for Land Inertial Navigation System (LAND-INS)
Bharat Electronics Limited (BEL)	Defence Laboratory, Jodhpur (DRDO) (DLJ)	Emergency Sea Water Purification Kit (ESWPK): By obtaining the ToT for ESWPK from DLJ, BEL Navi Mumbai can develop and market a new product category as sea water purification kit.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	5kW HF Radio: The 5kW HF radio is advanced software defined radio. The radio is 5 kW transmit capable radio. It provides a complete solution to the long range communications requirements in the crowded HF band for beyond line of sight. The radio provides Voice, Data, Flash message communication. Communication reliability is improved by means of Automatic link establishment, which enable real-time selection of optimum channel frequency based on 2G-ALE, 3G-ALE and 4G-ALE features. The radio can be used with wide range antennas, including dipole, long wire, rhombic, Log periodic and many other broadband antennas for static operation. This is M/s Bharat Electronics in-house designed product.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	Holographic Head Up Display Head -Up Display (HUD) systems are used in modern aircraft to provide pilots with essential data and information projected at optical infinity onto the forward field-of-view seen through the aircraft windshield/combiner. A pilot is thus able to monitor critical parameters and data while his attention is focused out on the real world during all phases. A collimated HUD display minimizes the need for a pilot to accommodate (refocus) his eyes when viewing display information or viewing the outside world,
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	Active RF Seeker is an application specific, compact, missile borne tracking to guide the missile in terminal phase to track and destroy the target. Aid to improve hit-to-kill capability. Based on the designated angle, velocity and range; Seeker detects the target, acquires the target, locks onto it for precise homing guidance of the missile. Mono Pulse, Pulsed Doppler principle, which can track the target in angle, velocity and range. Active Phased Array based electronic steering to intercept fast moving evasive targets.

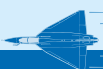


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Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	ASR/MSSR (Air Surveillance Radar & Monopulse Secondary Surveillance Radar for IAF & AAI) Seamless air traffic control with detection range of 60 NM(for 2sqm) with 360 deg coverage in azimuth. Redundant channel processing with hot standby mode of operation Dedicated air detection & weather processing.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	CU (Central Unit for Portable Radars): This is a product designed and developed to indigenize and replace the Central Unit of LLLWR (ELTA) Radar. The Central Unit is an Air Cooled Line replaceable Unit (LRU) having the responsibilities of Waveform Generation, Signal Conditioning, Signal Processing and Data Processing. The CU consists of sub modules which receive the RF from Antenna and process the signal to detect the targets. The Timing of the Radar is generated by Waveform Generator using the shaft encoder value and sent to transmit module via dedicated lines. The detections from the IFF are received and association is done inside the CU.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	The Secure Digital Mobile Radio is a 25W multi digital protocol radio with built in encryption for high end secrecy requirements. It is capable of providing line of sight (LOS) communication in clear and secure mode along with short data messages. The vehicle mounted radio is compatible with legacy radio in clear FM mode and other DMR radios in digital mode. The radio communication protocol complies ETSI standard for DMR protocol.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	Airborne Sonar for Coastal Surveillance (ASCS) / Low Frequency Dunking Sonar (LFDS) is a compact airborne sonar system which can be deployed from small rotary wing platforms like helicopters, for long-range detection of subsurface targets. ASCS is designed & developed indigenously by Naval Physical Oceanographic Laboratory (NPOL), Kochi. NPOL is a premier research DRDO lab of India. All the sub-system of ASCS are designed & developed by NPOL and engineered & manufactured by Indian Industry Partners mainly MSMEs. BEL (NS1) is the System Integrator for the entire system.



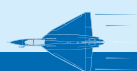
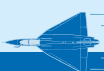


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Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	UHF RFID READER: 'Long Range RFID Reader' uses electromagnetic fields to transfer data, for the purpose of automatically identifying and tracking tags attached to objects for Electronic Toll Collection 'ETC' application.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	3 ATI Display is an electronic device that processes and monitors temperature and serial data and displays various parameters on 4inch display. It has Night Vision Capability: As per MIL-STD-3009 Class B.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	Radar Data processing Unit: captures the data from different types of Sensor systems, processes the data and disseminates the data over Network and for Command and Control application of Sensors. Intel Processor based solution for Radar data processing, Ethernet Switch, ADSB receiver and G3I receiver under one umbrella.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	10.1" MILGRADE TAB: Rugged Tablet 10.1" is an electronic device that process data to work as a computing platform as well standalone display. It is used to process the general purpose computing and graphical applications based on Intel Core Processor.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	MILGRADE WORK STATION: Operator Workstation- MIL Grade is customized Core Xeon based BOX PC with different I/O's. The enclosure is fabricated from aluminum alloy material. Power input and all interfaces are provided on the rear panel with circular mil grade connectors.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	Handheld IRNSS-RS ASIC based receiver: This is Indigenized position and location receiver. This will used by Indian Arm forces as well as paramilitaries forces in India. A 5" capacitive touch display based GPS + IRNSS RS receiver is developed to a handheld form factor. The receiver is capable of receiving, and tracking signals from IRNSS RS (dual frequency- L5 & S Band) & GPS with GAGAN for L1 band. The receiver operates in hybrid mode based on satellite visibility. Unit has features like Position Indication, Waypoints assignment, Custom route creation, GPS tracking for Navigation using OSM/Proprietary maps. The unit provides interfaces for RS232, Micro USB, Audio and Power jack. The unit is having inbuilt battery and can be charged through external adapter Hard keypad provides features of Power ON/OFF, Navigating keys, Key to switch between internal and external active antenna



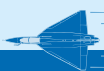


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Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	VoIP Phone: VoIP Phone is indigenously designed and developed at BEL for voice communication over IP networks using VoIP technology. The device can be integrated with any third part SIP based call servers for voice communication.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	Tactical VoIP Phone: The Tactical VoIP Phone is a device that can be used to make IP calls for voice communication across telephone exchanges. IP phone shall be used with third party SIP based call control server.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	Router & Call Manager: Router & Call Manager has in built SIP based Call Control & Media Gateway server. It has in-built gateway to support traditional circuit-switched legacy interfaces to enable the users to fully leverage the power of IP while recognizing the need to support legacy systems and devices as defense forces evolve to a fully Everything over Internet Protocol (EoIP) Environment. The unit is designed for 19" Rack mounting. It can be used in any tactical locations without need of any special maintenance. The unit is wired for Ethernet, Optical and Power signals.
Bharat Electronics Limited (BEL)	Bharat Electronics Limited (BEL)	BEL and Hexagon to explore possibilities of joint participation and joint business development in areas of mutual interest and benefit to both the Parties. Hexagon will provide solutions and services to offer in respect of Technologies applicable in the field of Smart Cities, Safe Cities, Critical Infrastructure Projects, Smart Agriculture, Disaster Management, Mine Surveillance to BEL, for different projects to be initiated by BEL.
Bharat Electronics Limited (BEL)	Tamilnadu Industrial Development Cooperation Ltd (TIDCO)	Cooperation for Setting up of BEL's Regional Product Support Centre in Tamilnadu Defence Industrial Corridor (TNDIC)-Coimbatore
Hindustan Aeronautics Ltd. (HAL)	Directorate General of Civil Aviation	Handing Over of ITSO Certificate for Cockpit Voice Recorder by DGCA
Hindustan Aeronautics Ltd. (HAL)	Directorate General of Civil Aviation	Handing Over of ITSO Certificate for Flight Data Recorder by DGCA





Name of Entity	Name of Entity	Description/Title of Event
Hindustan Aeronautics Ltd. (HAL)	Safran Helicopter Engines S.a.s.,	Signing of Work Share Agreement with M/s Safran Helicopter Engines for formation of Joint venture for Design, Development, Manufacture and life time support of Helicopter Engines.
Hindustan Aeronautics Ltd. (HAL)	Ananth Technologies Limited, Hyderabad	Major Announcement on Releasing of Manufacturing PO on M/s Ananth Technologies Limited, Hyderabad.
Hindustan Aeronautics Ltd. (HAL)	Craftlogic Labs Pvt Limited, Bangalore	Release of Development order to M/s Craftlogic Labs Pvt Limited, Bangalore for 2 types of flight critical Sensors of Su-30 aircraft.
Hindustan Aeronautics Ltd. (HAL)	Barij Dynamics LLC ("AL TARIQ"), Abu Dhabi, UAE	To explore, equipping of HAL's Light Combat Aircraft (LCA) with EDGE's guided weapons and offering to the Indian Air Force (IAF), with approval of all stakeholders and concerned agencies. Also, Joint marketing of LCA equipped with EDGE's guided weapons in Middle-East and North African (MENA) countries by HAL and EDGE.
Hindustan Aeronautics Ltd. (HAL)	Hensoldt	Major Announcement on Agreement signed between HAL Korwa & M/s HENSOLDT on: D&D & upgrade of Obstacle Avoidance System (OAS) for ALH Platform Setting up manufacturing & repair facility of OAS under ToT/IPR transfer from M/s Hensoldt.
Hindustan Aeronautics Ltd. (HAL)	CMTI	Major Announcement on Establishment of Hydraulic Test Rig facility for LCA Mk1A





MoU

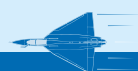
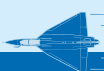




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Astra Microwave Products Limited	Eldis Pardubice s.r.o.	Indigenous manufacturing of ASR & MSSR
Astra Microwave Products Limited	Eldis Pardubice s.r.o.	Indigenous manufacturing of PAR
Astra Microwave Products Limited	InfiniDome	Exclusive Manufacturing of Infinidome Anti-Jamming products for Indian market
Astra Microwave Products Limited	Raytheon Intelligence & Space	Indigenous manufacturing and joint promotion of All HISAR variants
Astra Microwave Products Limited	Officina Stellare S.p.A	To cooperate for opto-mechanical systems
ECIL	Presto Info Solutions Pvt Ltd., Delhi .	To address IT Software, Network related RFPs with M/s Presto InfoSolutions Pvt. Ltd., Delhi
ECIL	Sterile Technologies Ltd., Delhi	To address RFPs in the domains of Data Center, Strategic Network Establishment Business in Government sectors with M/s Sterlite Technologies Ltd.
ECIL	Hitachi India Private Ltd.	To address RFPs in the domains of Homeland Security for Integrated Command Control Centre (ICCC), Smart City projects, Smart Energy & Transportation, Security and surveillance in Government sectors with M/s Hitachi India Private Ltd. and M/s Hitachi Vantara India Pvt. Ltd.
Legend Technologies India Pvt Ltd	Gopalan Aerospace	MoU Exchange with Legend Technologies and Gopalan Aerospace for mutual collaborations in Indian Ultra-Light Helicopter project and Indigenized aerospace projects.
Manastu Space Technologies Pvt Ltd	Space Fields	MoU to explore possibility of co-development of Green Propulsion System for upper stages of launch vehicle.
Rangsons Aerospace Pvt. Ltd.	Hensoldt AG	Joint development of Data link system for UAV, Aircraft and Helicopters.
Rangsons Aerospace Pvt. Ltd.	Rafael Advanced Defence System Ltd	Joint development of Airborne PoD system for Surveillance and Recce



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Gopalan Aerospace India Pvt Ltd	Omnipol	The L 410 UVP-E20 version began production in the late eighties. Since then almost 200 aircrafts of this modification have been produced, which fly in more than thirty countries around the world. The UVP-E20 is the longest produced version of the L 410, which still meets customer requirement and is delivered world wide. This Venture will be te 1st passenger aircraft to be manufactured and assembled by a private company In India .
Gopalan Aerospace India Pvt Ltd	MTC Slovakia ,J.S.C	High-precision weapon system AX-2 predator is an attack system of BLOS(Beyond-Line-Of-Sight) guidance type, based on UAV platform. AX2 Predator is easy-to-deployed light transportable weapon system, often referred in the category of a Loitering munition. This system is designed to support the ground troops which operate in harsh conditions and difficult combat situations
Gopalan Aerospace India Pvt Ltd	Omnipol	Passive Surveillance ESM Tracker (PET) VERA-NG is the most advanced PassivSurveillance System utilizing the multilateration Time Difference of Arrival (TDOA) principle. The Passive long-range reconnaissance and monitoring systems is designed for the detection, identification, and monitoring of air, ground, and naval
Larsen & Toubro Limited	Goa Shipyard Limited	Indigenisation of technologies
Larsen & Toubro Limited	Mazagon Dock Shipbuilders Ltd (MDL)	Indigenisation of technologies
FSTC	Indira Gandhi Rashtriya Udan Akademy	FSTC & IGRUA Association for an integrated cadet pilot program
BAE Systems (Operations) Limited	Newspace Research & Technologies Pvt. Ltd.	To explore potential collaboration opportunities in unmanned systems and associated technologies
BAE Systems (Operations) Limited	Flight Simulation Technique Centre Pvt Ltd	This MOU represents the parties in relation to the Development and Manufacture of Advanced Twin Dome Hawk Simulators for the Indian Armed Forces.





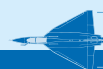
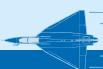
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Sagar Defence Engineering Private Limited (SDEPL)	Israel Aerospace Industries (IAI)	Memorandum of Understanding (MoU) and Major Announcement on collaboration of Sagar Defence Engineering Private Limited (SDEPL) & Israel Aerospace Industries(IAI) for IDEX Challenge “Autonomous Weaponized boat Swarm” for Indian Navy.
PTC Industries Ltd.	Dassault Aviation	MoU to evaluate the possibility of DASSAULT AVIATION purchasing ingots, billets, rods, bars, components, casting, machining, spares in Titanium, Super Alloy and other critical materials for Aerospace applications
Accurate Industrial Controls Pvt Ltd.	MDL	Challenge 13 iDEX13 - AI Based Collision Avoidance System AI-Based Collision Avoidance System: Capability to detect and track vessels simultaneously including any navigational hazards.
Centum Electronics Limited	SAAB AB, Sweden	Collaboration in Avionics technologies for Gripen Program.
PTC Industries Ltd.	Hindustan Aeronautics Limited	For exploring potential co-operation in Indigenisation of various Grade Raw Materials (Steel, Titanium & Super Alloys), Casting Components & Sub-Systems/ Systems for Aero Engine of MIG & Sukhoi Aircraft
Alpha Design Technologies Pvt. Ltd	Elbit Systems (C4I & Cyber)	Establishment of a Joint Venture Company
Government of Karnataka	IIGP Valve Technologies Pvt Ltd	Manufacturing of Aerospace Components
Government of Karnataka	Infinity Aerotech	Aerospace, Defence & EV Components Manufacturing
Government of Karnataka	Flying Wedge Defence & Aerospace Technologies Pvt Ltd. along with TESCOM -ELCIA	Research, Design, Development and Manufacturing of Unmanned Aircraft System for Defence and Agriculture
Government of Karnataka	Shoma Automation Pvt Ltd.	Defence, Health , Mobility & Space



Name of Entity	Name of Entity	Description/Title of Event
Government of Karnataka	SST Cutting Tools	Manufacturing of Cutting Tools for Aerospace Industry
Government of Karnataka	Techsol Engineers	Manufacturing of Aerospace components related to Fluid Distribution Systems
Government of Karnataka	Wave Mechanics	Manufacturing of High Precision Mechanical Components
Government of Karnataka	Aarav Aerospace	Aerospace & Defence Components
Government of Karnataka	Aero Platina Technologies	Expansion of existing unit which specializes in manufacturing of High Precision CNC Components for Aerospace and Defence Sector
Government of Karnataka	AIDIN Technologies Pvt. Ltd.	Designing, Development & Manufacturing of Counter Anti Drone systems
Government of Karnataka	ALTIUS Aerospace Pvt. Ltd.	Design and Manufacture of Electronic systems and subsystems
Government of Karnataka	Aviatum Technologies	Manufacturing of High Precision CNC Components for Aerospace and Defence Sector
Government of Karnataka	Burji Aerospace	Manufacturing of CNC Machine parts for Aerospace Sector
Government of Karnataka	Datakue Services Pvt. Ltd.	Software Development for Aerospace Sector
Government of Karnataka	Ducom Aerospace Technologies Private Limited	Space & Defence Products
Government of Karnataka	Himanshi Thermal Solutions	Manufacturing of Aviation & Defence Equipment
Government of Karnataka	M/s Bellatrix Aerospace Pvt Ltd	Establishment of spacecraft and propulsion manufacturing facility and R & D Centre
Government of Karnataka	M/s PixxelSpace India Private Limited	Satellite Manufacturing, Assembly, Integration and Testing facility



Name of Entity	Name of Entity	Description/Title of Event
Government of Karnataka	M/s Dynamatic Technologies	Development of Airframe Structures and Precision components
Government of Karnataka	Delopt -A division of JK Paper Limited	Manufacturing of Embedded Electronics & EO systems
Government of Karnataka	Next Big Innovation Labs Pvt Ltd	Manufacturing of Made in India 3D Bioprinters for on-ground and space applications; Introduction of 3D Printing/ Bioprinting skilling program across polytechnics and universities in Karnataka; Setup of a centre of excellence for 3D Bioprinting (for applications including microgravity R&D in space)
Government of Karnataka	SASMOS HET Technologies Limited	Design and development of electronics, assemblies, and wiring harnesses with integrated solution for Aerospace and Defence Sector
Government of Karnataka	Bhumi Entech Equipments Pvt Ltd	Electronics hardware R&D facility in or around Bangalore
Government of Karnataka	Cast Craft	Precision Machining and Assembly for Oil and Gas Aerospace & Defence
Government of Karnataka	Eldas Technologies	Technology Development for AI Hardware Platforms
Government of Karnataka	Vaibhav Enterprises	Manufacturing of Precision CNC Components for Aerospace and Defence
Government of Karnataka	Uday Enterprises	Manufacturing of Precision CNC Components for Aerospace and Optical Instruments
Government of Karnataka	Laveera Technologies Pvt Ltd	R & D Facility for developing new products and technologies for Aerospace and Defence and also to undertake significant indigenization for various Indian A & D Platforms
Government of Karnataka	Garuda Aerotech	Manufacture of Aerospace spare Parts
Government of Karnataka	G S Gears Pvt Limited	Manufacture of Gears & Pinions

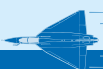




Name of Entity	Name of Entity	Description/Title of Event
Government of Karnataka	Genser Aerospace and Information Technology Pvt. Ltd.	Aerospace engineering & product development center and Indigenous light business jet
Government of Karnataka	Aceinotec Manufacturing Pvt. Ltd.	Manufacturing of High Precision CNC Components for Aerospace and Defence Sector
Hindustan Aeronautics Ltd. (HAL)	Pawan Hans Ltd	Exploring business cooperation and opportunities in the area of MRO of Airframe, Landing Gears and components of Dauphin Helicopters owned/operated by Pawan Hans Ltd.
Hindustan Aeronautics Ltd. (HAL)	HensoldT, South Africa	For exploring collaboration for co-development & supply of Electro-optic systems on Helicopter Platforms available within India and outside under Export.
Hindustan Aeronautics Ltd. (HAL)	Bevel Gears India Pvt. Ltd	End-to-End manufacturing of all types of aerospace grade gears for various platforms through outsourcing.
Hindustan Aeronautics Ltd. (HAL)	Mahant Tool Room, Bangalore	End-to-End manufacturing of Airborne components for various platforms through outsourcing.
Hindustan Aeronautics Ltd. (HAL)	Titan Engg and Automation Ltd., Hosur	End-to-End manufacturing of airborne components for various platforms through outsourcing.
Hindustan Aeronautics Ltd. (HAL)	Skygear Aviation India Private Limited, Gurugram	MOU on Collaboration in regard to design, development, manufacture, supply and maintenance of Unmanned Aerial Vehicle (UAV's)
Hindustan Aeronautics Ltd. (HAL)	Aircraft Accident Investigation Bureau (AAIB), Delhi	Utilizing HAL facility for civil aircraft accident and incident investigation in civil sector. HAL support & expertise in setting up a Flight Recorder Lab at AAIB campus, New Delhi.
Hindustan Aeronautics Ltd. (HAL)	Elta Systems Limited , Israel	Cooperation on future Business in Maritime Patrol Radar (MPR) for Indian Platforms



Name of Entity	Name of Entity	Description/Title of Event
Hindustan Aeronautics Ltd. (HAL)	T-HUB	To pursue opportunities for collaboration and supporting start-ups in nichetechnological areas Telangana Hub
Hindustan Aeronautics Ltd. (HAL)	Saarloha Advanced Materials Private Limited (SAMPL) & Bharat Forge	Collaboration of Indigenous Development & Manufacturing of Aerospace Grade Metallic Raw Materials for Indian Military applications among HAL (F&F Div), Saarloha Advanced Materials Private Limited SAMPL & Bharat Forge.
Hindustan Aeronautics Ltd. (HAL)	3Lines, Saudi Arabia	For Business cooperation to conduct Manufacturing , Assembly, Certification and MRO of Defence Aerospace Systems and Associated Derivatives.
Hindustan Aeronautics Ltd. (HAL)	WB India	Manufacturing, Maintenance Repair & Overhaul of Aerospace Defence Avionics Systems, Sub-systems, LRUs and components for UAVs.
Hindustan Aeronautics Ltd. (HAL)	Larsen & Toubro	Business co-operation for manufacturing and repair of air crafts.
Hindustan Aeronautics Ltd. (HAL)	Yantra India Limited	Collaboration for Development, Certification & Manufacturing of various Mill forms of Aluminium Alloys for Indian Aerospace & Military applications among HAL (F& F Div) & Yantra India LTD (YIL) , Ambajhari.
Bharat Dynamics Limited (BDL)	Shilat Optronics	Working together on Shilat Seekers and Designators, including support for trials and integration in BDL's armaments
Bharat Dynamics Limited (BDL)	Main Arrow LLC, United Arab Emirates	Exploring the possibility to work on the TJ1000 turbojet engine technology which will be used in Drones/Missiles for export market.
Bharat Dynamics Limited (BDL)	Thales Belgium S.A., Belgium & Thales India Private Limited	a) Setting up manufacturing facilities with respect of Thales 70mm / 2.75" FZ275 LGR Laser Guided Rocket and its major components in India; b) Offering the FZ275 LGR Laser Guided Rocket to Indian Defence Forces and to integrate 70mm / 2.75" FZ275 LGR Laser Guided Rocket components into Thales global supply chain to satisfy future requirements of Thales Export markets
Bharat Dynamics Limited (BDL)	Bultexpro Ltd., Bulgaria	Setting up the manufacturing facilities for 122mm GRAD BM ER and NON ER rockets in India and fulfill the requirements (including ToT).

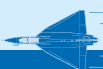




Name of Entity	Name of Entity	Description/Title of Event
Bharat Dynamics Limited (BDL)	Barij Dynamics LLC ("AL TARIQ"), Abu Dhabi, UAE	To cooperate together in order to identify Potential Projects and assess in good faith the viability and feasibility of jointly implementing such Potential Projects and reflect the same in appropriate and definitive agreements to be potentially agreed by the Parties at a later stage
Bharat Dynamics Limited (BDL)	Bultexpro Ltd., Bulgaria	Working together on study & repair of unserviceable Seekers pertaining to R27, R73E & Club Class Missiles of Indian Armed Forces.
Bharat Dynamics Limited (BDL)	Electronics Corporation of India Limited (ECIL), Hyderabad	Jointly address the requirements of major defence programs.
Bharat Dynamics Limited (BDL)	Lekha Wireless Solutions Pvt. Ltd. (LWSPL), Bangalore	Working together on development of Scalable Wireless Communication Network for Autonomous Mobile Platforms
Bharat Dynamics Limited (BDL)	Indian Institute of Technology Madras (IITM), Chennai	Working together on Design and development of Propellant grains for various missiles and futuristic weapon systems
Bharat Dynamics Limited (BDL)	Tamil Nadu Industrial Development Corporation (TIDCO), Chennai	TIDCO shall assist BDL in availing the services of the three centres of excellence – namely TANCAM, TANSAM and TAMCOE to support the vision of BDL in upgradation and development of product, machinery, processes and human resources
Bharat Dynamics Limited (BDL)	Tamil Nadu Industrial Development Corporation (TIDCO), Chennai	TIDCO shall assist BDL in availing the services of the three centres of excellence – namely TANCAM, TANSAM and TAMCOE to support the vision of BDL in upgradation and development of product, machinery, processes and human resources
Bharat Electronics Limited (BEL)	Globals ITeS Pvt Ltd	Cooperation in the area of Cyber Security. M/s GLOBALS ITeS pvt ltd has expressed its inclination to collaborate with BEL and to make use of R&D Facilities for Joint Research; to do Marketing and Business Development for User Organizations / Agencies by GLOBALS and BEL has agreed to make the necessary efforts for doing the same after establishing and verifying the purported utility of said technology.



Name of Entity	Name of Entity	Description/Title of Event
Bharat Electronics Limited (BEL)	IAI, Israel	Cooperation for production of Long Range Missile System
Bharat Electronics Limited (BEL)	Indian Institute of Science (IISc) Bengaluru	Co-operate and work in areas of Artificial Intelligence (AI) and Machine Learning (ML)
Bharat Electronics Limited (BEL)	BEML, Bengaluru	To Co-operate for a Long Range Surface to Air Missile Program under the Make in India
Bharat Electronics Limited (BEL)	ADA DRDO, Bengaluru	Memorandum of Understanding between Bharat Electronics Ltd and Aeronautical Development Agency on IWBC and Other LRUs for Advanced Medium Combat Aircraft (AMCA)
(MIDHANI)	Micron Instruments, Chandigarh	Mutual Business Co-operation in the area of special materials for health care applications
MIDHANI	Jay Jagadamba, Mumbai	Mutual Business Co-operation in the area of special steel bars for commercial applications
MIDHANI	Bay Forge, Chennai	Mutual Business Co-operation in the area of special steels for space and commercial applications
MIDHANI	Hindustan Aeronautics Limited, Nashik	Mutual Business Co-operation in the area of aerospace materials
MIDHANI	Hindustan Shipyard Limited(HSL), Visakhapatnam	Mutual Business Co-operation in the area of naval materials
MIDHANI	Hindustan Aeronautics Limited, Koraput	Mutual Business Co-operation in the area of aerospace materials
MIDHANI	TIDCO	Mutal co-operation in the area of Centre of Excellence
MIDHANI	IIT, Roorkee	Joint research & development
MIDHANI	IIT, Bombay	Joint research & development
MIDHANI	Welspun Speciality Solution Limited	Mutual Business Co-operation in the area of special steel tubes for domestic and exports
MIDHANI	Oorja Abhyantran	Mutual Business Co-operation in the area of Nitinol





Name of Entity	Name of Entity	Description/Title of Event
Hindustan Shipyard Ltd (HSL)	Tai Engineers India Pvt. Ltd.	Collaboration with TAI for co-operation in designing of various Defence and commercial vessels project to be undertaken by HSL
Hindustan Shipyard Ltd (HSL)	D'GIPRO Systems Pvt Ltd.	The product manufacturing capability leveraging the strengths of individual parties would be marketed. Based on the market requirements, these boats would be manufactured utilising the designs of D'GIPRO and the manufacturing facilities of HSL.
Hindustan Shipyard Ltd (HSL)	Fincantieri	Consultancies related to shipbuilding process as well as training and transfer of technology (such as design, project management or Integrated Construction as and when required by HSL on case to case basis)
Hindustan Shipyard Ltd (HSL)	Smart Engineering & Design Solutions (india) Private Limited	Facilitates provision for a co-operation between HSL and SEDS to execute the design of various upcoming projects These projects include providing Hospital Ships, Survey Vessels, Bulkers, Passenger Vessels, Cargo Vessels, inland and coastal vessels etc
Hindustan Shipyard Ltd (HSL)	Santhosh Offshore	Facilitate joint coordination between two parties to promote the product /Products manufactured by HSL and services in Shipbuilding/ Ship Repair in accordance with the terms and conditions of the agreement.
Hindustan Shipyard Ltd (HSL)	Shree Refrigeration	SHREF will cooperate HSL in the area of HVAC, AC plants and HVAC Electrical works for upcoming ship building projects.
Hindustan Shipyard Ltd (HSL)	Braithwaite & Co Ltd	HSL envisages to take up new supply / installations and revamping and/or modifications / up gradation / Reliability Assessment / Annual Maintenance Contract (AMC) / CAMC / supply of spares for various EOT, ELL, HH and RMG Cranes etc. in collaboration with M/s BCL based on the deliberations and definitive agreements
Hindustan Shipyard Ltd (HSL)	MIDHANI	MIDHANI and HSL will coordinate for progressing possible business in future shipbuilding and submarine refits and repair projects.
Bharat Earth Movers Limited (BEML)	Maini Precision Products	Association for development and manufacture of airborne Sheetmetal components for global OEMs



Name of Entity	Name of Entity	Description/Title of Event
Bharat Earth Movers Limited (BEML)	Rangsons Aerospace Private	Association for development of Tooling and manufacture of critical airborne Sheet metal components for global OEMs..
Bharat Earth Movers Limited (BEML)	Garuda Aerospace Private Limited	Association in the field of Technology and Manufacture of Drone
Bharat Earth Movers Limited (BEML)	CD Space Robotics Private Limited	Associated for Development of critical aggregates and in building of Technology demonstrator of Tactical UAV.
Bharat Earth Movers Limited (BEML)	Valdel Advance Technologies	Association for manufacture of Composite Structures required for the productionization of Tactical UAV being developed by BEML in association with IIT Kanpur.
Bharat Earth Movers Limited (BEML)	Pushpak Aerospace & Defence	Association for realization of GSLV structure in the areas of manufacture of critical component and Surface treatment operations.
Bharat Earth Movers Limited (BEML)	Aerospace Engineers Pvt. Ltd.	Association for critical lining of Rocket motor casings for Missile programs, manufacture of composite parts, special processes and surface treatment for GSLV programs being taken up by BEML.
Bharat Earth Movers Limited (BEML)	VPK (Military Industrial Company LLC), Russia	To enter into Non-Disclosure Agreement with VPK (Military Industrial Company LLC), Russia, to explore business opportunities for Armoured Vehicles Viz Protected Mobility Vehicle
Bharat Earth Movers Limited (BEML)	Excalibur Army spol. s.r.o., Czech Republic	BEML proposes to enter into Non-Disclosure Agreement with Excalibur Army spol. s.r.o., Czech Republic, for Overhauling (OH) and Manufacturing of V46-6 Engine at BEML Engine Division
Bharat Earth Movers Limited (BEML)	TATA Advanced Systems Limited (TASL)	BEML proposes to enter into Non-Disclosure Agreement with TATA Advanced Systems Limited (TASL), To explore business opportunities for HMV vehicle and sub-systems for mounting 155mmx52 Cal Truck mounted Howitzer
Bharat Earth Movers Limited (BEML)	Aeronautical Development Agency (ADA)	Association in Design & Development of GHE/GSEs, manufacture of modules & sub modules, mechanical systems for LCA Mk 2 program.
Bharat Earth Movers Limited (BEML)	Bharat Electronics Limited (BEL)	Association with BEL for joint manufacture of LRSAM program.



Name of Entity	Name of Entity	Description/Title of Event
Bharat Earth Movers Limited (BEML)	Indian Navy	For palletization of Naval Armament
Bharat Earth Movers Limited (BEML)	Hexagon	Association for critical lining of Rocket motor casings for Missile programs, manufacture of composite parts, special processes and surface treatment for GSLV programs being taken up by BEML.
Mazagon Dock Limited (MDL)	Fluid Controls Private Limited	Supply of marine valves and manifolds, fittings and connectors, clamps and flanges.
Mazagon Dock Limited (MDL)	Kirloskar Brothers Limited (KBL)	Supply of Marine pumps, valves and hydro turbines
Mazagon Dock Limited (MDL)	Aries Technical Sales & Services Pvt. Ltd.	Supply of propulsion system for Interceptor Boats (IBs)
Mazagon Dock Limited (MDL)	Safetech Products & Services Private Limited	Portable machine tools, ship deck machinery and marine services
Mazagon Dock Limited (MDL)	Hawa Valves	Supply of marine valves
Mazagon Dock Limited (MDL)	Larsen & Toubro Limited	Supply of defence systems & equipment
Mazagon Dock Limited (MDL)	GEETA Engineering Works Ltd Pvt. Ltd	Supply of ship propulsion and hull machinery
Mazagon Dock Limited (MDL)	Cargomar Group	Transportation of New build vessels to Foreign countries by ocean freight
Mazagon Dock Limited (MDL)	Ghatge Patil Industries Ltd.	Indigenization of items / equipment's for all types of rubber material used onboard Submarines.
Mazagon Dock Limited (MDL)	Vimal Fire Controls Pvt. Ltd.	Indigenization of System / Components of Fire Fighting Systems used onboard Ships & Submarines.
Mazagon Dock Limited (MDL)	SAF Refrigeration & Engineering, Mumbai	Indigenization of Refrigeration Plant and its associated Systems for Submarines.
Mazagon Dock Limited (MDL)	MIST Resonance Engg Pvt. Ltd., Pune	Indigenization of Components/ Spares of Fire Fighting systems used onboard Ships.



Name of Entity	Name of Entity	Description/Title of Event
Mazagon Dock Limited (MDL)	Kalyani Cast Tech Ltd., New Delhi	Container Design & Fabrication
Mazagon Dock Limited (MDL)	Vijai Marine Shipyard, Goa	Shipbuilding & Ship repair
Mazagon Dock Limited (MDL)	Ajanta Surface Treatment Pvt. Ltd	Blasting & Painting of hull structure of Submarine
Mazagon Dock Limited (MDL)	Dionics	Market Support Frim
Mazagon Dock Limited (MDL)	Radiant Cable	Marine Insulated Conductors Inboard
Mazagon Dock Limited (MDL)	Thermo Cable	Marine Insulated Conductors Inboard
Mazagon Dock Limited (MDL)	Symtronics Pune	Design of Control System
Mazagon Dock Limited (MDL)	Daybest Services Pvt Ltd	Manufacturing of drones.
Mazagon Dock Limited (MDL)	Accurate Group, Pune	Implementation of various solutions such as I) AI Based Solutions II) Robotic Solutions - Z-bots with Plasma Cutting III) Electrification of boats, vessels and other hybrid Solution IV) Other Solutions
Mazagon Dock Limited (MDL)	Roto Pumps Ltd., NOIDA	Supply of pumps
Mazagon Dock Limited (MDL)	Alseamar	Manufacturing of diver diving vessels
Mazagon Dock Limited (MDL)	Penatgon Rugged System Pvt Ltd	Design and supply of system for underwater platform
Goa Shipyard Limited (GSL)	Bharat Electronics Limited (BEL)	GSL and BEL agree to work jointly with each other for international market research / development, product identification, promotion and subsequent export of product in accordance with the specific requirement of customers globally. This MOU is primarily intended to forge an alliance and to co-operate for the export of products produced by the BEL or platform/vessels developed and produced by GSL.



Name of Entity	Name of Entity	Description/Title of Event
Goa Shipyard Limited (GSL)	Larsen & Toubro Limited	GSL and L&T through this MoU, in line with the business interests and policy of providing state of the art products / systems to defence services, shall cooperate and work jointly for the export opportunities related to Naval vessels with an aim to increase the chances of being successful bidder for the program and thus give a boost to export of defence products / services.
Goa Shipyard Limited (GSL)	Kalyani Strategic Systems Limited	GSL & KSSL, under this MoU, agree to work in joint cooperation and integration to meet global demands of potential customers on mutually agreed business opportunities and interests in the field of maritime sector . The MoU shall consolidate and coordinate efforts in following up new developments and the application of international maritime requirements and standards.
Goa Shipyard Limited (GSL)	Mohan Mutha Exports Pvt Ltd.	<p>GSL & MMEPL, by this MoU, aims to clearly identify, investigate and discuss the feasibility to the collaboration and partnership in construction of Damage Control Simulator Project and workforce training at Republic of Maldives.</p> <p>The MOU is intended to pursue in good faith the discussions in respect of scope of work of each party with a view to establish and enter into a detailed Teaming Agreement/ Consortium Agreement, in order to execute the Project at the territory.</p>
Goa Shipyard Limited (GSL)	Smart Engineering and Design Solutions	<p>GSL & SEDS, under this MoU, look forward to work in close collaboration and establish and develop a shipbuilding and ship repair industry in commercial sector. The aim is to build ships in India by providing complete design solutions to the overseas clients and having a long term view of serving export markets.</p> <p>The key aspect of this MoU is to exchange potential information and to ensure shipbuilding best practise is shared in the commercial sector.</p>



Name of Entity	Name of Entity	Description/Title of Event
Goa Shipyard Limited (GSL)	Maritime Monitoring Group AS.	GSL & MMG AS , through this MoU, will establish and venture in the area of commercial shipbuilding, looking forward to tap sufficient opportunities especially in European market. The collaboration would offer different solutions on turnkey accomodation concepts and HVAC facilities from initial design to installation and outfitting, with an intent to deliver innovative and high quality ship interior to vessels and rigs in this sector.
Goa Shipyard Limited (GSL)	Maritronics India Pvt. Ltd.	GSL & MIPL, by signing this MoU, agree to jointly research and approve the application of the commercialisation of autonomous navigation, communication systems and security/surveillance systems for mid to large sized vessels, which will further increase the efficiency of ship management.
Goa Shipyard Limited (GSL)	PT Aaron Jaya Internasional, Batam, Indonesia	Marketing Representative Agreement with M/s. PT Aaaron Jaya Internasional for marketing & sale of GSL's product in Indonesia.
Goa Shipyard Limited (GSL)	Brolich Marine Electronic . Engineering	GSL & BROLICH MEE, agree to work jointly with each other for providing technical support & services related to Torsion meter on the platforms built by GSL as well as other yards for domestic and export market.
Goa Shipyard Limited (GSL)	Electropneumatics & Hydraulics (India) Pvt. Ltd.	GSL & EPHL, agree to work jointly with each other for undertaking new projects, maintenance orders, training and upgradation of DCS, DCTF, NBCTF and other similar simulators for the Indian and Foreign customers. The MoU also intends in providing life time support for the projects and installations for which the orders have been received by GSL.
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	Aerospace Engineers Pvt. Ltd.	Design, Development, Testing, Series Production and After Sales Service of Products requiring Advanced Technologies in the domain of Autonomous Underwater Vehicles and Allied Systems.
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	Rekise Marine Pvt. Ltd.	GRSE Ltd. and Rekise Marine Ltd. agrees to jointly conduct research and development in connection with unmanned surface vessels and, jointly pursue and execute contracts for the same.



Name of Entity	Name of Entity	Description/Title of Event
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	Tunga Aerospace Industries Private Limited	Design, Development, Testing, Series Production and After Sales Service of Products requiring Advanced Technologies in the domain of ship-based drones
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	IIT Kharagpur	Industry - Academia interface of new technologies in Shipbuilding
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	Rolls-Royce Solutions GmbH (MTU)	License production with localization of the MTU 16V4000M73L engine. License production of MTU 16V4000M73L engine to support the indigenous content for the Next Generation Fast Attack Craft vessel for Indian Navy.
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	KELTRON	To jointly develop sensors required for AUVs, explore possibilities of using Noise Anomaly detectors & Noise Ranging equipment in shipbuilding project
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	Central Institute of Fisheries Technology	Design, engineering, construction and supply of Deep Sea Fishing Vessel / Boats of medium to large size
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	Krasny Marine	Collaboration for Ship repair
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	Naval Group, France	Cooperation in Commercial Shipbuilding
Garden Reach Shipbuilders & Engineers Ltd (GRSE)	Dynatron	MoU for undertaking Ship repair / refit and allied activities at GRSE/ GRSE-KPDD / elsewhere in India as Ship repair
Munitions India Limited (MIL)	LARSEN & TOUBRO DEFENCE	Development of GNC kits for Pinaka rockets
Munitions India Limited (MIL)	FFV, Sweden	Co-production of Carl Gustav Ammunition
Munitions India Limited (MIL)	Thales, Belgium	Co-production of 70 mm Aerial Rocket
Munitions India Limited (MIL)	Engineers India Limited	Project management & services for MIL P&M in India & abroad
Munitions India Limited (MIL)	Redon India	Development & Co-production Loitering Ammunition
Munitions India Limited (MIL)	Inavit Systems India Pvt. Ltd.	Development & Co-production Electronic Fuzes
Munitions India Limited (MIL)	BHEL, India	Co-production & supply of 40mm AD Ammunition, Smart ammunition, Aerial Bombs & Guidance kits



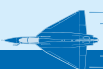
Name of Entity	Name of Entity	Description/Title of Event
Munitions India Limited (MIL)	VEM Technologies, India	Co-production of Igla missiles
Troop Comforts Limited (TCL)	Skytee Solutions LLP, New Delhi	For Designing and Manufacturing of HAPPS.
Troop Comforts Limited (TCL)	IIT Madras	For monitoring of soldier's vital statistics in Bullet resistant Jackets (BRJs) without any financial obligation.
Troop Comforts Limited (TCL)	Central Leather Research Institute, Chennai	For Designing and Manufacturing of Modular Gloves.
Yantra India Limited (YIL)	Hindustan Aeronautics Limited	MOU on evaluation of potential business arrangement and opportunities in the area of defence products
Yantra India Limited (YIL)	Hindalco	Supply of Alloy Billets to YIL from Hindalco-Almex Aerospace Ltd. Supply of 6082-F temper sheets/plates to YIL from Hindalco's Rolling mill
Yantra India Limited (YIL)	Paras Defence	MoU on identification of products and equipment undertaking feasibility study and collaboration for joint development of products
India Optel Limited (IOL)	Star Aerospace Pvt. Ltd	MOU shall be signed between India Optel Limited and M/s Star Aerospace Pvt. Ltd, Dehradun for objective to establish a framework between IOL and SAPL, the parties will jointly collaborate & do co-production of Holographic sight.
Gliders India Limited (GIL)	AWEIL	Co-operation in design of GIL Products such as Parachutes and new Inflatable products.
Gliders India Limited (GIL)	AMHSS (Apparel Made-Ups and Home Furnishing Sector Skill Council)	Joint Certification of tailors for stitching of parachutes.
Advanced Weapons and Equipment India Limited (AWEIL)	IIITDMJ	The objective of this MoU is to establish the framework for cooperation between AWEIL and IIITDMJ to jointly address the requirements of critical and strategic material required for Indian Defence Forces, Paramilitary Forces, police organizations, civil and export market. The MoU shall cover both ongoing and new projects.



Name of Entity	Name of Entity	Description/Title of Event
Advanced Weapons and Equipment India Limited (AWEIL)	GLIDERS INDIA LIMITED	The objectives of the MoU are to establish the frame work for co operation between AWEIL and GIL to jointly address the requirements of critical and strategic material required for Indian defence forces, paramilitary forces, police organizations, civil and export market. The MoU shall cover both ongoing and new projects.
Advanced Weapons and Equipment India Limited (AWEIL)	ARDE AND LOKESH MACHINES LIMITED	The objectives of the MoU are to establish the frame work for co operation between AWEIL and M/s LMT, Hyderabad to jointly address the requirements of critical and strategic material required for Indian defence forces, paramilitary forces, police organizations, civil and export market.
Advanced Weapons and Equipment India Limited (AWEIL)	IIT Kanpur	The objective of this MoU is to establish the framework for cooperation between AWEIL and IIT Kanpur to jointly address the requirements of critical and strategic material required for Indian Defence Forces, Paramilitary Forces, police organizations, civil and export market. The MoU shall cover both ongoing and new projects.
ARMOURED VEHICLES NIGAM LIMITED (AVNL)	JSC ROE, Russia	To jointly work towards export of Identified Products by working from product/ market identification, To identify potential areas of co-operations such as development of a new product / system/ platform, etc for the domestic and international markets using their complementary strengths, infrastructure and resources promotion, R&D, development & manufacturing To work towards evolving and addressing business opportunities arising during the entire life cycle phase of products/ systems To cooperate regarding serially manufacture of Typhoon K to the customer subject to AVNL/VFJ being awarded on order by the customer.
ARMOURED VEHICLES NIGAM LIMITED (AVNL)	Avisions Systems Ltd., Hyderabad	To jointly work towards export of Identified Products by working from product/market identification, promotion, R&D, development & manufacturing To identify potential areas of co-operations such as development of a new product / system/ platform, etc for the domestic and international markets using their complementary strengths, infrastructure and resources.



Name of Entity	Name of Entity	Description/Title of Event
		<p>To work towards evolving and addressing business opportunities arising during the entire life cycle phase of products/systems.</p> <p>To cooperate regarding serially manufacture of Light Tanks to the customer subject to AVNL/HVF being awarded on order by the customer.</p>
ARMOURED VEHICLES NIGAM LIMITED (AVNL)	Milanion	<p>To jointly work towards export of Identified Products by working from product/ market identification, promotion, R&D, development & manufacturing.</p> <p>To identify potential areas of co-operations such as development of a new product / system/ platform, etc for the domestic and international markets using their complementary strengths, infrastructure and resources.</p> <p>To work towards evolving and addressing business opportunities arising during the entire life cycle phase of products/systems.</p> <p>To cooperate regarding serially manufacture of Autonomous Combat Vehicle to the customer subject to AVNL/OFMK being awarded on order by the customer.</p>
ARMOURED VEHICLES NIGAM LIMITED (AVNL)	Sundaram TVS Rubber, Madurai	<p>To jointly work towards export of Identified Products by working from product/ market identification, promotion, R&D, development & manufacturing.</p> <p>To identify potential areas of co-operations such as development of a new product / system/ platform, etc for the domestic and international markets using their complementary strengths, infrastructure and resources.</p> <p>To work towards evolving and addressing business opportunities arising during the entire life cycle phase of products/ systems To cooperate regarding manufacture & supply of Rubber Items AVNL units.</p>
ARMOURED VEHICLES NIGAM LIMITED (AVNL)	Indian Institute of Technology Madras (IITM), Chennai.	<p>To jointly work towards Product/ market identification, promotion, research, consultancy, advisory, education, Projects & Training.</p> <p>To identify potential areas of co-operations such as development of a new product / system/ platform, etc for the domestic and international markets using their complementary strengths, infrastructure and resources</p> <p>To work towards evolving and addressing business opportunities arising during the entire life cycle phase of products/systems</p>

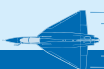




Name of Entity	Name of Entity	Description/Title of Event
ARMOURED VEHICLES NIGAM LIMITED (AVNL)	TATA Advanced Systems, Hyderabad	To jointly work towards export of Identified Products by working from product/ market identification, promotion, R&D, development & manufacturing. To identify potential areas of co-operations such as development of a new product / system/ platform, etc for the domestic and international markets using their complementary strengths, infrastructure and resources. To work towards evolving and addressing business opportunities arising during the entire life cycle phase of products/systems. Manufacturing support by making available in-house manufacturing facilities to each other for scaling up production to maintain delivery commitments to the Indian MoD / customer by both the Parties.
Indian Army	IISc Bengaluru	MoU for Establishment of Indian Army Cell at IISc Bengaluru.
Indian Army	IIT Delhi	MoU for Commercialisation of Technology with IIT Delhi.
Indian Army	IIT Kanpur	MoU for Establishment of Indian Army Cell at IIT Kanpur.
Indian Army	AVI-OIL INDIA (P) Ltd.	Co-operation and promotion of Research towards development of indigenous substitutes of aviation lubricants being imported and new aviation platforms inducted by Navy including their trials and evaluation.
Indian Army	VSSC / Indian Space Research Organisation	Co-operation and promotion of Research and development in areas of mutual interest.
Government of UP		
Government of Tamil Nadu	BDL	Industries will become supply chain Aerospace and Defence Sector and they can become capable from built to print to design , develop and supply sort of Supplier. For that TIDCO is establishing various Center of Excellence (TANCAM,TANSAM,TANCOE) in collaboration with world renowned industries like DASSAULT, SIEMENS, GE etc.
Government of Tamil Nadu	MIDHANI	Industries will become supply chain Aerospace and Defence Sector and they can become capable from built to print to design , develop and supply sort of Supplier. For that TIDCO is establishing various Center of Excellence (TANCAM,TANSAM,TANCOE) in collaboration with world renowned industries like DASSAULT, SIEMENS, GE etc.



Name of Entity	Name of Entity	Description/Title of Event
Government of Tamil Nadu	Bharat Electronics . Limited (BEL)	Industries will become supply chain Aerospace and Defence Sector and they can become capable from built to print to design , develop and supply sort of Supplier. For that TIDCO is establishing various Centere of Excellence (TANCAM,TANSAM,TANCOE) in collaboration with world renowned industries like DASSAULT, SIEMENS, GE etc.
Government of Tamil Nadu	Grand Power India Private Limited	Industries will become supply chain Aerospace and Defence Sector and they can become capable from built to print to design , develop and supply sort of Supplier. For that TIDCO is establishing various Centere of Excellence (TANCAM,TANSAM,TANCOE) in collaboration with world renowned industries like DASSAULT, SIEMENS, GE etc.





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