



Department of Defence Production

Marching Towards Self Reliance

3 years Achievement

May 2014 - May 2017



रक्षा मंत्रालय
Ministry of Defence
भारत सरकार
Government of India



GRSE built OPV, "CGS Barracuda" Commissioned at Mauritius in the presence of Hon'ble Prime Minister of India, Shri Narendra Modi & Hon'ble Prime Minister of Mauritius, Shri Anerood Jugnauth



One to one meeting between Mr. Arun Jaitley, Minister for Defence, Finance & Corporate Affairs and Mr. Denis Manturov, Minister of Industry and Trade of the Russian Federation



प्रधान मंत्री
भारत
**PRIME MINISTER
INDIA**

MESSAGE



Self-reliance in defence has been an important cornerstone of the Government policy on national security. Our Government, in the last three years, has undertaken several policy and process reforms to attract private investment into defence manufacturing sector. Today, we have one of the most liberal FDI policies for the defence sector in the world. I am hopeful that recently announced policy on Strategic Partnership for domestic manufacturing of major defence platforms will further boost the growth and expansion of Indian defence industry through organic partnerships between India and foreign companies.

I am glad to learn that the Department of Defence Production has compiled the achievements of last three years and is coming out with a booklet. I congratulate the Department of Defence Production on this occasion and wish all the best to all the officers and employees of the Department in their future endeavours.

'Jai Hind'


(Narendra Modi)



रक्षा मंत्री
भारत

MINISTER OF DEFENCE
INDIA

MESSAGE



Given the geo-political situation and geographical location of India, self reliance in defence sector is an imperative rather than a choice for defence preparedness. In the last three years, the Department of Defence Production has taken significant measures to harness the potential of Indian Defence Industry, both public and private sector, for greater indigenous development of defence equipment. Defence sector, being one of the key sectors under the 'Make in India' initiative, the Government has provided renewed impetus through various policy measures and reforms.

On the one hand, the entry of private investment including foreign investment in 'the sector has been made smooth and hassle-free and at the same time, on the other hand, sincere efforts have been made to improve the performance and capabilities of Defence Public Sector Undertakings (DPSUs) and Ordnance Factories (OFs). The Government has recently come out with Strategic Partnership Model to create capacities and capabilities in the private sector over and above the capacities and capabilities already existing in the public sector. The overall objective is to reduce dependence on imports and to create a vibrant and dynamic eco-system for the defence industry to develop within the country.

The role of Defence PSUs and Ordnance Factories in contributing to our defence preparedness cannot be undermined. Over the last several decades, they have played a pivotal role in not only supplying the required defence equipment to the Armed Forces through licensed production, but have also developed and produced, indigenously, some of the major 'State-of-the-Art' defence equipment such as Light Combat Aircraft 'Tejas', 155 mm Artillery Gun System 'Dhanush' and Surface to Air Missile system 'Akash'. Several other systems are also under development and production in these units.

I am pleased to learn that Department of Defence Production has compiled all the major initiatives and achievements of the last three years and is coming out with this booklet. I convey my best wishes to all the officers and staff of Department of Defence Production in their future endeavours and I am sure, they will continue making significant contribution for developing the defence industrial base in the country in pursuit of self-reliance in the sector.

'Jai Hind'



(Arun Jaitley)



सत्यमेव जयते

रक्षा राज्य मंत्री
भारत

MINISTER OF STATE FOR DEFENCE
INDIA

सन्देश



यह अत्यंत हर्ष का विषय है कि रक्षा उत्पादन विभाग अपनी उपलब्धियों को उजागर करते हुए पत्रिका का प्रकाशन कर रहा है। पिछले कुछ वर्षों में सार्वजनिक क्षेत्र के रक्षा उपक्रमों, आयुध निर्माणियों एवं निजी क्षेत्रों की भागीदारी से रक्षा उत्पादन के क्षेत्र में देश ने उत्तरोत्तर उन्नति की है। वर्तमान सरकार के "मेक इन इंडिया" कार्यक्रम ने विभिन्न परियोजनाओं को स्वीकृति प्रदान कर रक्षा उत्पादन के क्षेत्र को नई दिशा प्रदान की है तथा इसके सकारात्मक परिणाम प्राप्त हो रहे हैं।

सरकार का मूल उद्देश्य है कि रक्षा उपकरणों के निर्माण में स्वदेशीकरण को बढ़ावा दिया जाये तथा विदेशी आयात एवं तकनीक पर कम से कम आश्रित रहा जाये। इसी लक्ष्य को लेकर देश में न केवल सरकारी इकाइयों बल्कि निजी क्षेत्रों को भी रक्षा निर्माण परियोजनाओं में भागीदार बनाया जा रहा है। इससे जहाँ तक एक ओर देश का रक्षा तंत्र मजबूत होगा, वहीं दूसरी ओर आर्थिक रूप से भी यह अत्यंत लाभप्रद साबित होगा। रक्षा उपकरणों के निर्माण में विदेशी निवेश को बढ़ावा देने के उद्देश्य से लाइसेंस प्रणाली को सुगम बनाया गया है तथा विदेशी निवेश स्वीकृति का उदारीकरण किया गया है।

आयुध निर्माणियों तथा रक्षा क्षेत्र के सार्वजनिक उपक्रमों द्वारा अपने अथक प्रयासों से रक्षा उपकरणों के निर्माण में संतोषजनक वृद्धि दर्ज की है तथा उत्पादनों की गुणवत्ता भी अंतर्राष्ट्रीय स्तर के मुकाबले प्रतिस्पर्धा में आ रही है। मुझे इस बात की हार्दिक प्रसन्नता है कि रक्षा उत्पादन विभाग इसमें महत्वपूर्ण भूमिका निभा रहा है।

मैं रक्षा उत्पादन विभाग के सभी अधिकारियों एवं कर्मचारियों को उनकी सभी उपलब्धियों के लिए हार्दिक बधाई देता हूँ तथा उनके उज्ज्वल भविष्य के लिए शुभकामनायें देता हूँ।

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(डा. सुभाष भामरे)

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GLIMPSES





ANNEXURE



Joint Ventures (Approved as on 31.05.2017)

Sl. No.	Name of the JV/ Implementing Company	Items of manufacture
1	M/s Multirole Transport Aircraft Ltd	Co-development & co-production of a multirole transport aircraft of 15-20 ton category jointly with Russian partners.
2	M/s HAL-Edgewood Technologies Ltd.	High technology miniature electronic modules and avionic systems for aerospace applications
3	M/s HALBIT Avionics Private Ltd.	Aircraft simulators and services
4	M/s Bharat Electronics Ltd.	Civilian and select defence radars
5	M/s Alpha-ITL Electro Optics Pvt. Ltd.	Optical goods, equipment and optical instruments
6	M/s HBL Elta Avionics Systems Pvt. Ltd.	Radar, EW systems, electronics communication systems
7	M/s BF Systems Ltd.	Complete support for Light Weight Howitzer and other small & medium calibre weapons programs
8	M/s. Alpha Electronica Defence Systems Pvt. Ltd.	EW equipment and systems for land/shipbased/airbased platforms
9	M/s Armet Armoured Vehicles (India) Ltd.	Manufacture of bodies to be mounted on motor vehicles chassis for special purpose motor lorries, armoured cars etc.
10	M/s Samtel Thales Avionics Pvt. Ltd.	Helmet mounted sight display.
11	M/s Astra Micro wave Products Ltd.	Components & sub-systems for wireless communication for application in defence, space & cellular communication
12	M/s Mahindra Defense Systems Ltd.	Defence equipment in the land sector
13	M/s Taneja Aerospace & Aviation Ltd.	Armour panel for helicopter and body armour
14	M/s Vyoneesh Technologies Pvt Ltd.	Overhauling and maintenance activities for all technology related equipment and products including aircraft
15	M/s ICOMM Tele Ltd.	Active telecommunications infrastructure and equipment for defence related telecommunications equipment.
16	M/s Lakshmi Machine Works Ltd.	Parts, components and accessories for aircraft and spacecraft for civil and defence sector.
17	M/s Tata Aerostructure Ltd.	Complete support for advanced aerospace and aero structures items for defence aircraft, helicopters, and unmanned airborne vehicles.
18	M/s Larsen & Toubro Ltd.	Electronic Warfare, Military Avionics, Mobile Systems (defence related) and Radars



ANNEXURE



Sl. No.	Name of the JV/ Implementing Company	Items of manufacture
19	M/s ABG Shipyard Ltd.	Shipbuilding, Ship Repair and Defence Products
20	M/s Jubilant Aeronautics Pvt Ltd.	Unmanned Aerial Systems and accessories
21	M/s Maini Precision Products Pvt.	Aircraft and spacecraft
22	M/s Park Controls & Communications Ltd.	Onboard/data acquisitions systems, avionics, and other electronic aerospace and defence equipment.
23	M/s Rossell Aviation Private Ltd.	Civil & Defence aviation with focus on product support services, repair and maintenance facility, providing training solutions in project.
24	M/s Indian Rotorcraft Ltd.	Assembly of both military and civil versions of Agusta Westland's AW119 Kx Helicopters.
25	M/s Mahindra Defence Systems Ltd.	Radar systems and various kinds of defence electronic systems.
26	M/s Tata Sirkosky Aerospace Ltd.	Parts for civilian aircraft; Design, development, assembly, testing and inspection for aerospace and aero structures.
27	M/s Larsen & Toubro Ltd.	Defence Production
28	M/s Space Era Materials and Processes Pvt Ltd	Defence equipment of telecommunication and avionics
29	M/s Track Systems India Private Ltd.	Import and export of tracks and running gear components
30	M/s Amertec Systems Pvt Ltd.	Advanced electronic systems, test systems, simulators and electronic systems for military applications
31	M/s Hical Technologies Pvt Ltd.	Wiring, cable and harness for aeronautics and defence sectors.
32	M/s. BF Elbit Advanced Systems Pvt. Ltd.	Artillery guns/howitzers, mortars, ammunition, tactically protected vehicles
33	M/s SasMos Het Technologies Ltd.	Electrical & electronic panels for aerospace & defense applications, electronic warfare sub-systems, for airborne, ground & naval application.
34	M/s Quest Global Manufacturing Pvt. Ltd	Defence aerospace and offset program
35	M/s Ideaforge Technology Pvt. Ltd.	Unmanned aerial systems.
36	M/s Quantum Simulators Pvt. Ltd.	Set up a simulator manufacturing company in India

ANNEXURE



Licensed Companies
(Reported commencement of production as on 31.05.2017)

S. No.	Name of the Company	Items of Manufacture
1	M/S Axiscades Aerospace & Technologies Ltd	Electronic Warfare Systems, Communication Systems, Radar & Avionics Systems, Command & Control Systems and Surveillance.
2	M/S Alpha-ITL Electro Optics instruments. Private Ltd.	Optical Goods and Equipment.
3	M/S Anjani Technoplast Ltd and podiums etc.	Safety and ballistic products including bullet proof vests, jackets, helmets
4	M/S Alpha Design Technologies Pvt.	Radar system, parts and accessories; optical goods and equipment; Navigational instruments; Computer and computer based systems; Transmission apparatus for radio telephony & radio telegraphy and repair and maintenance of computers and computers based systems, Unmanned Aerial Vehicles (UAVs) of various types including mini, micro UAVs and ground support systems.
5	M/S Astra Microwave Products Ltd.	Microwave sub-systems and components for wireless communications, Radar systems & EW systems
6	M/S Avantel Ltd.,	ECM Equipment & Jammers of EW systems; COMINT system sub-systems; SATCOM equipment and radar sub-systems
7	M/S Alligator Design Pvt. Ltd	Military qualified LCD monitors/display, rugged computers, optical goods and equipment
8	M/S Alpha Electronica Defence Systems Pvt. Ltd.	EW equipments & systems for ground, air & ship based platforms
9	M/S Bharat Electronics Ltd.	Shipborne COMINT/Wide Band Direction Finding (WBDF) & acquisition system
10	M/S Data Patterns (India) Pvt. Ltd.	Avionics and electronic systems for airborne applications., electronic systems for shipborne applications & ground weapon systems-both static and mobile, electronic systems for UAVs, missiles, armament systems including upgrades, automatic test equipment including upgrades.
11	M/S Godrej & Boyce Mfg. Co. Ltd.	Rocket engine/major sub-assemblies., missile launchers & torpedo launchers
12	M/S HBL Power Systems Ltd.	Night Vision Devices, Image Intensifiers, Thermal Imagers and parts thereof, electronic components, machine pressed components and sub-systems for specialized enclosures & assemblies to be installed in airborne, shipborne and terrestrial platforms and looms and cable harnesses for airborne, shipborne and terrestrial platforms



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S. No.	Name of the Company	Items of Manufacture
13	M/s HELA systems Private limited [earlier HBL ELTA Avionics Systems Pvt. Ltd.	Radars & parts, EW systems & accessories/parts, surveillance systems, electronic communication systems, integrated platforms both mobile & stationary
14	M/S High Energy Batteries (India) Ltd.	Seawater activated silver chloride magnesium batteries and cupros chloride electrodes/batteries.
15	M/S IST Ltd Based Systems	Fuses, night vision devices and sensor
16	M/S Larsen & Toubro Ltd.	Radar, sonar systems and associated sub-systems, EW equipment and systems sensors, arms & armaments, warships, submarines, weapon platforms & high speed boats/crafts, assembly of armoured and other combat vehicles, airborne assemblies, systems and equipment for aircrafts, helicopters and uninhabited aerial vehicles & equipment for the aviation sector.
17	M/S Mahindra & Mahindra Ltd.	Sea mines and its variants
18	M/S Max Aerospace And Aviation Ltd.	Avionics & Military aircraft namely (i) Unmanned Aerial Vehicle (UAV) and Unmanned Combat Aerial Vehicle (UCAV) (ii) installation/manufacture & assembly of aircraft subsystems (iii) assembly of helicopters
19	M/S Memory Electronics Private Limited	Radio and satellite communication equipment, I.T. systems, simulators, optronics and electro optronics systems, electronic fuses & Early Warning systems
20	M/S Micron Instruments Pvt. Ltd.	Empty fuses for artillery, shells, mortar bombs, grenades and similar munitions of war; safety and arming devices for fuses and clock work mechanism and gear train assemblies, filled fuses for artillery shells, mortar bombs, missiles, grenades and similar munition of war and empty fuses for artillery shells, mortars bombs missiles grenades and similar munition of war
21	M/S Miltech Industries Pvt. Ltd.	Plastic magazine assembly with spring
22	M/S Maspac Limited	Combustible cartridge cases
23	M/S Tata Motors Ltd.	Light armoured multirole vehicles, armoured engineer vehicles, armoured recovery vehicles, armoured logistics carriers, heavy tank transporters, shelters and containers, special attack and surveillance vehicles, tactical floating bridges and ferries, tracked armoured vehicles, bullet proof cars, jeeps and troop carriers, high mobility vehicles, mechanised material handling & bridging equipment and mine protected vehicles.
24	M/S Sika Interplant Ltd.	Aerospace components & standard parts



ANNEXURE



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S. No.	Name of the Company	Items of Manufacture
25	M/S Defsys Solutions Pvt. Ltd.	Avionics/defence electronic equipment.
26	M/S Ananth Technologies Ltd. Systems	Telemetry & telecommand systems; missile interface units and inertial navigation
27	M/S Radiant Interconnect Solutions (India) Pvt. Ltd. [earlier M/s Radiant Cables Pvt. Ltd.]	Electric & electronics wires and cables and cable assemblies & extruded copper/alloy products special electric and electronic equipment wire & cables, cable systems, control systems, components.
28	M/S Nova Integrated System Ltd	Optical equipments; laser equipments and navigation systems., air defence missile systems, anti-missile missile systems, ship launched anti-ship and anti-surface as well as shore launched anti-ship missiles system, land based surface to surface missile systems, anti-tank missile systems, air to surface missile systems and air to surface guided munitions systems, air to air missile systems.
29	M/S Tata Power Company Ltd.	Avionics, airborne assemblies systems and equipment for aircraft, helicopters & AWACS., EW system., assembly/system integration of state-of-the-art network centric warfare enablers., weapon systems, rocket & missile launchers for ground and naval applications., air defence guns/field artillery, naval guns, tanks, combat vehicles, anti tank weapons systems, mortars, shell, naval combat, air defence, artillery, command & control systems, border security & surveillance, including sensors., mil(military grade) products-display consoles, rugged, computers, workstations servers, on-board computers, GPS receivers, printers, document/biometric security systems etc.
30	M/S TIL LTD	Mobile launchers, mast mobile aerial system and special purpose logistic vehicle & equipments.
31	M/S Adigear International	Bullet proof jackets etc.
32	M/s Precision Electronics Limited	MIL cable assemblies & harness., transmission systems including line, radio, satellite, networking equipment, embedded system for C ⁴ I ² SR, ESM systems, antenna, gimbals and accessories.
33	M/s Tata Lockheed Martin Aerostructure Ltd.	Aircraft structural assemblies consisting of empennage & centre wing box
34	M/S HCL Infosystems Ltd.	System integration of airborne & ground based electronic systems for defence applications
35	M/S Aurora Integrated Systems Pvt Ltd	Aero-structures and aero assemblies including Unmanned Aerial Systems (UAS) for defence applications of various categories



ANNEXURE



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S. No.	Name of the Company	Items of Manufacture
36	M/S Elcom Systems Pvt. Ltd.	Transmission apparatus for radio telephony and apparatus for carrier current, line system including manufacture of telephone set.
37	M/S Verdant Telemetry	Airborne antennas radomes, composite components, telemetry transceivers
38	M/S Shobha Ano Prints Pvt. Ltd.	Gen-III night vision devices
39	M/S Futura Automation Pvt Ltd	Rugged computers & displays
40	M/S Zen Technologies Ltd.	Gripen flight simulator, T-90 gunnery simulator, Volvo truck simulator, Javelin missile simulator and infantry weapon effects simulator (live)
41	M/s ABG Shipyard Limited	Naval warships and naval support ships., design & construction of naval warships and naval support ships
42	M/S Spiral EHL Engineering Pvt. Ltd.	Machines
43	M/S SM Creative Electronics Ltd.	Power supply system for torpedo, missiles, different radars, computers and sub-assemblies
44	M/S Sandeep Metalcraft Pvt. Ltd.	Mechanical fuses for guns, mortars & missiles, primers, bomb bodies & grenades
45	M/S Indian Armour Systems Pvt. Ltd.	Jackets, BP helmets, bomb blankets, armoured plates and aramid fabrics
46	M/S Tata Advanced Systems Limited	System integration of state-of-the-art network-centric warfare, ruggedisation and upgrades of mil (military grade) products, ground, naval and air combat systems, air defence, artillery, command & control systems, border and maritime security and surveillance, air defence guns, field artillery, naval guns, tanks, combat vehicles, anti-tank weapons systems, mortars, shell, missiles, rockets, assembly and manufacture of defence aircraft (fixed wing & rotor-craft).
47	M/S Shoft Shipyard Pvt. Ltd.	Manufacture of warships and typical naval vessels
48	M/S Icomm Tele Ltd.	Commissioning of fixed frequency and frequency hopping ground to ground and ground to air, point to point and point to multi-point radios and radio relays., optical transmission & multiplexing & de-multiplexing equipment for static and mobile defence communications high and low power jammers HF/VHF/UHF range, surveillance and interception systems and counter terrorism products in HF/VHF/microwave frequency



ANNEXURE



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S. No.	Name of the Company	Items of Manufacture
49	M/S Aviohelitronics Infosystems Pvt Ltd	Aircraft avionics
50	M/S VEM Technologies Pvt. Ltd.	Guidance and control systems, electronics, avionics and power supplies for rockets and missiles., armament electronics, safety systems and power supplies., assembly, integration & checkout of arms and ammunitions (rocket and missiles), hydraulics, high pressure pneumatic systems and their subsystems, launch control & battle management systems.
51	M/S MAK Controls And Systems (P) Ltd	Ground support equipment for missile launchers for ground and naval application
52	M/S MKU Pvt. Ltd.	Manufacture of electro optical equipment
53	M/S Elcome Marines Services Pvt. Ltd.	Manufacture of Sonar system, Radar system, Communication system, Military simulator, Opto-electronic and Thermal Imaging system etc.
54	M/S MEL SYSTEMS AND SERVICES LTD.	TRAINING SIMULATORS AND UPGRADES BATTLEFIELDS SURVEILLANCE RADAR SYSTEMS
55	M/S IDEAFORGE TECHNOLOGY PRIVATE LIMITED	UNMANNED AERIAL SYSTEMS
56	M/S DYNAMATIC TECHNOLOGIES LIMITED	PART AND ACCESSORIES OF AIRCRAFT DISTRIBUTION MECHANISM HYDRAULIC COUPLING HEAVY VEHICLES SUCH AS BATTLE TANKS LAND SYSTEMS AND SUB-SYSTEMS
57	M/S LAKSHMI MACHINE WORKS LIMITED	1)STRUCTURAL PARTS, 2) LANDING GFEAR, 3) ENGINE CYLINDERS, 4) AUXILIARY WING FRAME ASSEMBLY.
58	M/S MAINI PRECISION PRODUCTS PRIVATE LIMITED	PARTS AND ACCESSORIES FOR AIRCRAFTS OR SPACERCRAFTS
59	M/S JEET & JEET GLASS & CHEMICALS PVT. LTD.	MINE RESISTANT / AMBUSH RESISTANT (ARMOURED) / VEHICLES,MILITARY SHELTERS



ANNEXURE

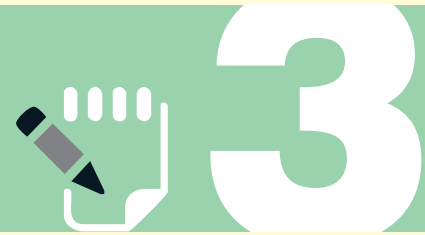


2

S. No.	Name of the Company	Items of Manufacture
60	M/S TANEJA AEROSPACE & AVIATION LTD.	AIRFRAMES SETS & RELATED DEFENCE EQUIPMENT LANDING GEARS AND RELATED EQUIPMENT
61	M/S NUCON AEROSPACE (P) LTD.	MISSILE GUIDING SUB-SYSTEM
62	M/S OM UAV SYSTEMS	MINI UAV
63	M/S. TATA ADVANCED MATERIAL LIMITED	BULLET PROOF JACKETS, BULLET PROOF HELMETS
64	M/S NARENDRA EXPLOSIVE LTD.	CELLULOID SHEETS, CONTAINERS & COMPONENTS.
65	M/S. KSEDC LTD. (KELTRON)	SONAR SYSTEMS, PORTABLE DIVER DETECTION SYSTEM, NAVIGATIONAL SYSTEMS
66	M/S JCBL LIMITED	ARMOURED VEHICLES, BULLET PROOF VEHICLES



ANNEXURE



Projects Identified
(Being progressed under 'Make' category of capital acquisition)

ARMY

Sl. No.	Name of the Scheme
1 & 2	125mm smooth bore gun barrel for T-72 & T-90 tanks with missile firing and improved ammunition. (<i>Two Projects : 1st for Barrel and 2nd for Ammunition</i>)
3.	1000HP Engine with associated peripherals for T-72 Tank
4	Individual Under Water Breathing Apparatus (IUWBA) for T-90 Tank
5	Environmental Control Unit for T-90 Tank
6	Auxiliary Power Unit (APU) for T-90 Tank
7	Tracked Light Dozer (TLD)
8	Assault Track Way- CI 24 for movement of HMVs in Desert & Semi Desert
9	APTA (Advance Pilotless Target Aircraft)
10	MEAT (Manoeuvrable Expendable Aerial Target)
11	AFV Protection and Counter measure System (APS)

NAVY

Sl. No.	Name of the Scheme
1.	Diesel Engine for Boats
2.	Upper Air Sounding System
3.	High Speed Low Flying Targets
4.	Expandable Underwater Target
5.	Deck Winches (for shipping applications)
6.	Diesel Engines for Propulsion
7.	Shafting & Propeller for Ships
8.	RAS / FAS Gear

AIR FORCE

Sl. No.	Name of the Scheme
1.	Air to Ground Rockets
2.	Chaff & Flares
3.	Long Range Glide Bomb
4.	Imaging Search and Track System (IRST)
5.	Air Combat Maneuvering Instrumentation (ACMI)
6.	Medium Altitude Long Endurance (MALE) UAV
7.	7.62mm Ammunition for Galil sniper Rifle (NATO)
8.	5.56mm Ammunition for Negev LMG (NATO belted)
9.	5.56mm Ammunition for TAVOR Assault Rifle (NATO)
10.	125 kg bomb (akin to MK-81 bomb)
11.	Aerial Fuse for Bomb



Hon'ble Prime Minister being briefed on new helicopter manufacturing facility at Tumakura.



Hon'ble Defence Minister Mr. Arun Jaitley, Minister for Defence, Finance & Corporate Affairs at Raksha Mantri Award for Excellence for the year 2014-15 and 2015-16



www.ddpmod.gov.in
www.makeinindiadefence.com