

Sun, 27 Aug, 2017

(Online)

DRDO charts yoga module for Jawans

Jaisalmer: To increase the capacity of jawans of Army, Air Force and Navy and paramilitary forces guarding borders of the country under tough conditions and to keep them disease-free, DRDO has prepared a yoga and pranayam module in scientific manner. This programme is according to their different needs and is in sync with the environment. Different pranayams are meant for different conditions and for different types of work of military and paramilitary forces. Now DRDO has prepared yoga and pranayam module for BSF seeing the difficult duty they perform in adverse conditions as per the need and their working style. Trials are going on in Jaisalmer.

DRDO Defence Institute of Physiology and Allied Science (DIPAS) section in this regard has been doing continuous research and now module will be started among BSF. In this regard, DRDO scientists are conducting research on BSF jawans deployed in areas with extreme heat. Around 20 days ago blood sugar, heartbeat, pulse and other physical activities of the jawans were tested and now everyday through this module the jawans are doing yoga and pranayam for an hour. After a month, the BSF jawans' post-data will be checked and their physical activities will also be checked to know if there has been a positive change in their bodies.

DIPAS coordinator scientist Mantu Shah said that under the directions of branch of DRDO DIPAS director Bhuvnesh Kumar, a special module of 'yogpranayam' is being implemented for jawans who are on duty in adverse conditions, especially in Leh, Ladakh and Siachen and other cold places. The results have been good, especially in places where oxygen is less.

He said at higher altitudes to provide relief to jawans, DRDO has set up a research lab at Nangla top that is at 17,000-18,000 feet and research is on there. Till now the module has been accepted by Army, Air Force and Navy, now the yoga and pranayam module is being implemented for BSF. Shah said now process has been started for scientific implementation of the module on BSF jawans at places of extreme heat and research has been started on jawans for one month.

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Boost to Army's air power; to get medium range missile by 2020

Highlights

- *Indian Army will finally get an advanced medium-range surface to air missile system by 2020*
- *The missile system will be able to shoot down ballistic missiles, fighter jets and attack helicopters from a range of around 70 km.*
- *The missile system will be produced by DRDO in collaboration with the Israel Aerospace Industries.*

New Delhi: After years of wait, the Indian Army will finally get an advanced medium-range surface to air missile (MRSAM) system by 2020 which will be able to shoot down ballistic missiles, fighter jets and attack helicopters from a range of around 70 km.

The missile system will be produced by premier defence research organisation DRDO in collaboration with the Israel Aerospace Industries (IAI), a senior army official said.

The MRSAM system will be capable of shooting down enemy ballistic missiles, aircraft, helicopters, drones, surveillance aircraft and AWACS (Airborne Warning and Control Systems) aircraft, the official said on condition of anonymity as he is not authorised to speak to the media.

The current version of MRSAM is operational with the Indian Air Force and the Navy.

The Defence Research and Development Organisation (DRDO) has signed a Rs 17,000 crore deal with the IAI for the ambitious project.

The MR-SAM, a land-based version of the long-range surface-to-air missile (LRSAM) for the Navy, will have a strike range of up to 70 km, the official said. The deal envisages 40 firing units and around 200 missiles.

"The MRSAM for Army's Air Defence is an advanced all weather, 360 degree mobile land based theatre air defence system capable of providing air defence to critical areas against a wide variety of threats in a combat zone," the official said.

The first set of missile system will be ready in the next three years, he said.

The Army has been pressing the government to enhance its aerial attack capability considering the evolving security challenges.

In May, the Army successfully test fired an advanced version of the Brahmos land-attack cruise missile in the Andaman and Nicobar Islands.

The Indian Army, which became the first land force in the world to deploy the Brahmos in 2007, has raised several regiments of this formidable weapon.

In May 2015, the Army had inducted the indigenously- developed supersonic surface-to-air missile Akash which is capable of targeting enemy helicopters, aircraft and UAVs from a range of 25 km.

The Army thinks procurement of the MRSAM will mark a paradigm shift in its strike capability.



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Boost for Army's air power: DRDO, Israel Aerospace Industries to produce medium-range missile system by 2020

The system will be capable of shooting down enemy ballistic missiles, aircraft, helicopters, drones, surveillance aircraft and Airborne Warning and Control Systems, a senior army official said.

By Ganesh Kumar Radha Udayakumar

After a long wait, the Indian Army will finally get an advanced medium-range surface to air missile (MRSAM) system by 2020. It will be able to shoot down ballistic missiles, fighter jets and attack helicopters from a range of around 70 km.

The missile system will be produced by India's premier defence research organisation - DRDO (Defence Research and Development Organisation) - in collaboration with the Israel Aerospace Industries (IAI), a senior army official said.

The MRSAM system will be capable of shooting down enemy ballistic missiles, aircraft, helicopters, drones, surveillance aircraft and AWACS (Airborne Warning and Control Systems) aircraft, the official said on the condition of anonymity.

The current version of MRSAM is operational with the Indian Air Force and the Navy.

Deal worth Several Thousand Crores

The Defence Research and Development Organisation (DRDO) has signed a Rs 17,000 crore deal with IAI for the ambitious project.

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Paradigm Shift

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Long Range Surface to Air Missile handed over to Indian Army

In a symbolic gesture, the indigenous Long Range Surface to Air Missile (LRSAM) was handed over to the Indian Navy by Minister for Defence, Finance and Corporate Affairs Arun Jaitley, at Bharat Dynamics Limited (BDL), Kanchanbagh here on Sunday.

LRSAM is an advanced combat suit for missile defence against air targets, missiles and includes air & surface surveillance, threat alert and fire control.

LRSAM is a DRDO-IAI (Defence Research & Development Organization - Israeli Aircraft Industries) Joint Development Contract with defined work-share. BDL is the Missile Production Agency to deliver and support the Indian Armed Forces in country's Defence preparedness. The missile is same for Tri Services viz., Navy, Air Force and Army.

State-of-the-art and first of its kind for a Defence production unit, the Rocket Motor Static Test Facility was dedicated to the Nation by Arun Jaitley, at BDL's Ibrahimpattam Complex. An amount of Rs 48 Crores has been spent on this facility.

The 50 Ton Rocket Motor Test facility for Surface to Air Missile (SAM) class of missiles will support the design and vendor development activities needed for the production of missiles. These efforts were hitherto shouldered by DRDO as the development agency.

BDL is now equipped to take the responsibility on its own which has been actively guided for realization and establishment by DRDO. The test bed is capable of withstanding a load of 50000 Kg (50T) and explosive limit of 1000kg with H.D 1.1 category. All kinds of SAM motors can be tested.

At BDL, Bhanur Unit, Arun Jaitley, inaugurated the ASTRA Manufacturing Facility. Astra weapon system is an indigenously developed Air-to-Air beyond Visual Range (BVR) missile developed by DRDO.

It comprises of Astra Launcher and Astra Missile. It is designed as a BVR missile with a range of 110 Km in head-on mode and 20 Km in tail-chase mode. BVR missiles are the latest in the air to air combat. BDL has been designated as the lead integrator by DRDO.

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Jaitley hands over long-range surface-to-air missile to Navy

By Somasekhar

The LRSAM was jointly developed by India and Israel



S Christopher, Chairman, DRDO (left), presenting a model of the LRSAM to Vice Admiral Karambir Singh, Vice Chief of Naval Staff (in uniform), in the presence of Arun Jaitley, Defence Minister, at a ceremony at Bharat Dynamics Ltd, Hyderabad, on Sunday

Hyderabad: Defence Minister Arun Jaitley on Sunday handed over the Long-Range Surface-to-Air Missile (LRSAM) jointly developed by India and Israel, to the Indian Navy, at Bharat Dynamics Ltd (BDL) here.

LRSAM is an advanced combat suit for missile defence against air targets and missiles, and has full capabilities of air and surface surveillance, threat alert and fire control.

Public sector BDL is the missile production agency for the three armed forces.

On a day of hectic activity, the minister also dedicated a first-of-its kind 50-tonne Rocket Motor Static Test Facility. The ₹48-crore facility for SAM (surface-to-air missile) will support the design and vendor development activities needed for production of missiles.

These efforts were hitherto shouldered by the Defence Research and Development Organisation DRDO as the development agency.

BDL is now equipped to take the responsibility on its own, which has been actively guided for realisation and establishment by DRDO.

Later, Jaitley inaugurated the ASTRA Manufacturing Unit at the BDL's Bhanur unit. The ASTRA weapon system is an indigenously developed air-to-air Beyond Visual Range (BVR) missile developed by the DRDO.

Comprising a launcher and a missile, it is designed as a BVR missile with a range of 110 km in head-on mode and 20 km in tail-chase mode.

BVR missiles are the latest in air-to-air combat. BDL has been designated as the Lead Integrator by the DRDO.

Manufacturing centre

The minister also performed the ground breaking of the phase II of the manufacturing facilities of BDL at Ibrahimpatnam. BDL had acquired 632 acres of land from the State government to establish manufacturing, testing and storage facilities for advanced weapon systems of MRSAM (Medium Range Surface-to-Air Missiles) and QRSAM (Quick-Reaction Surface-to-Air Missile).

The ₹ 522-crore facility will be the PSU's future weapon realisation and delivery centre.

The facilities will meet the future needs of missile testing, and is in line with DRDO labs.

It can be offered to other vendors of propellant and other sub-systems for development and production as a national asset.



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DRDO-IAI to deliver medium range missile MRSAM system to Indian Army by 2020

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Arun Jaitley inaugurates Rocket Motor Test Facility at BDL in Hyderabad

Hyderabad: Union Minister for Defence Arun Jaitley on Sunday inaugurated Rocket Motor Static Test Facility and dedicated it to the Nation. This state of art facility is the first of its kind for defence production unit at Bharat Dynamics Limited (BDL) at Ibrahimpatnam near Hyderabad.

According to officials, the 50 ton Rocket Motor Test facility for Surface to Air Missiles (SAM) will help in production of missiles. The Defence Research and Development Organization (DRDO) supported the project as the development agency. The test bed is capable of withstanding a load of Rs 50,000 kg and explosive limit of 1,000 kg and all kinds of SAM motors can be tested on this bed.

The union minister participated in various defence units programmes, including the ceremony for Phase II facilities creation at BDL unit, Ibrahimpatnam and inaugurated five megawatt solar photo voltaic power project and the Astra weapon system production at BDL Bhanur unit.

The BDL had acquired 632 acres of land from the state government for setting up the BDL second unit at Ibrahimpatnam. It will have both manufacturing, testing and storage facilities for advanced weapon systems for Medium Range Surface to Air Missiles and Quick Reaction Surface to Air Missiles Plan. The BDL has spent Rs 522 crore for the facility.

Earlier, Jaitley visited integration facilities of Ordnance Factor at Medak and flagged off first bar coded infantry combat vehicle BMP II. The Bar coded BMP vehicle was handed over to Lt Gen AB Shivane, Director General of Mechanized Forces by senior manager of Ordnance Factory Medak.