

Israel to Partner Drdo for Developing Missile Defence System for India

New Delhi (TIP): In a major upgrade to its defences, the Indian Army has signed a MoU with the Defence Research and Development Organisation (DRDO) to raise one regiment of the advanced Medium Range Surface to Air Missiles (MRSAM). The army plans to have a total of five regiments of this air defence system, which will be deployed opposite to China and Pakistan.

The MRSAM marks a paradigm shift in the capabilities of the Indian Army. The system can shoot down enemy ballistic missiles, aircraft, helicopters, drones, surveillance aircraft and Airborne Warning and Control System (AWACS) aircraft. Meant for the Army Air Defence, the MRSAM is an advanced, all weather, mobile, land-based air defence system.

It is capable of engaging multiple aerial targets at ranges of more than 50 km. Each MRSAM system comprises a command-and-control system, a tracking radar, missiles, and mobile launchers.

Each regiment consists of four launchers with three missiles each. So five regiments will have 60 missiles.

A MOU has been signed between the army and the Defence Research and Development Organisation (DRDO) for one regiment. “The MOU marks the beginning of the development of the MRSAM in the configuration required by the army,” said a defence ministry official, adding that the entire project is worth Rs 17,000 cr.

Earlier this year, the Cabinet Committee on Security headed by PM Narendra Modi approved a proposal for procuring the MRSAM system for the army. According to the proposal, the army will induct five regiments of the system. The system will be jointly developed by Israel Aerospace Industries (IAI) and DRDO with the involvement of private sectors and DPSUs. “The system will have majority indigenous content, giving boost to the Make-in-India initiative.

The participation of Indian companies in producing MRSAM will empower them in the field of hightech weapon technology.

Last July, the IAI and DRDO conducted three flight tests of the MRSAM at the integrated test range off the Odisha Coast. The missile successfully intercepted moving aerial targets in all three tests. The MRSAM is a land-based variant of the long-range surface-to-air missile (LRSAM) or Barak-8 naval air defence system, which is designed to operate from naval vessels.



Indian Army to get MRSAM missiles capable of shooting down ballistic missiles, aircraft

New Delhi: The Defence Research and Development Organisation (DRDO) has signed a pact with the Army for developing a medium-range surface to air missile (MRSAM) which will be capable of shooting down ballistic missiles and aircraft. “The MoU heralds the commencement of development of MRSAM system in the configuration as required by the Army,” a senior Army official said.

He said the missile will be produced by the DRDO in collaboration with the Israel Aerospace Industries (IAI). The missile will be capable of engaging multiple aerial targets at a range of more than 50 kms. In April, Israel's state-run IAI had said it signed a contract with India worth over \$1.6 billion for providing the missile to the Army.

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.

He said procurement of the MRSAM will mark a paradigm shift in the the Army's strike capability. The Army has been pressing the government for the MRSAM to enhance its strike capability. MRSAM's current version is operational with the Indian Air Force and Navy.



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BSF to use capsicum-based teargas for crowd control

The new bio-friendly oleoresin capsicum-based teargas shells will be produced in collaboration with DRDO and the chilli will be sourced from northeast and Andhra Pradesh.

After trying out PAVA shells, security forces have now turned to capsicum gel-based teargas to quell mobs in the Kashmir valley and other places.

A senior BSF official said the new teargas will be ready for use by security forces in spray can and shell forms, as early as next month.

The non-lethal munition can be used by security forces at any location in the country where there is a law and order problem but the largest inventory of the product is expected to be shipped to the Valley owing to the number of public protests and incidents of stone pelting, the official said.

The shells will be produced by the Tekanpur (Madhya Pradesh)-based Tear Smoke Unit (TSU) of the Border Security Force.

Last year, the TSU had launched the PAVA teargas munitions which, the BSF said, was "effectively" used by various police and security forces.

However, sources in the security establishment had said the personnel on ground in Kashmir had given feedback that PAVA (Pelargonic Acid Vanillyl Amide) was not an effective replacement for the controversial pellet guns and hence some other non-lethal ammunition should be provided to them to counter stone pelters and protestors.

The new bio-friendly oleoresin capsicum-based teargas shells will be produced in collaboration with the Defence Research and Development Organisation (DRDO).

The official said the chilli ingredient for these new munitions will be sourced from the jungles of the northeast and Andhra Pradesh and have two variants.

"One will be a teargas shell and the other spray can. The ultimate product will be helpful for police and security forces to combat both close-quarter and distant targets," the official said.

In the first go, about 50,000 shells will be produced by the TSU which will be followed by subsequent need-based orders from the forces.

An annual general body meeting of the TSU was also held under the chairmanship of BSF Director General K K Sharma at the forces' headquarters here today.

"The governing body also reviewed the progress of automation and production management of the TSU," a BSF statement later said.

PAVA was introduced last year by the Union home ministry after scores of protesters were blinded by the use of pellet guns in the Kashmir valley.

The pellet guns have not been discarded and are now used sparingly by the forces there.



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Chicken biscuits, tulsu bars developed by DRDO for security personnel

Defence minister Arun Jaitley said the development of nutritional food by Defence Research and Development Organisation for armed forces was an ongoing process based on their requirements and technological research in the area.

Various nutritious and protein-rich food items have been developed by the DRDO for security personnel deployed at high altitude and snow-bound areas, Parliament was informed on Friday.

The major food products developed by the Defence Research and Development Organisation (DRDO) in the last three years and the current year are chicken biscuits, protein rich mutton bar, composite cereals bars, egg protein biscuits, iron and protein rich food bar, chicken kathi rolls and anti-fatigue tulsu bar, defence minister Arun Jaitley said in a written reply in the Lok Sabha.

“There is no food production unit in DRDO. However, after developing these products, production technologies have been transferred to various industries for bulk production,” he said.

He added that development of nutritional food by DRDO for armed forces was an ongoing process based on their requirements and latest technological research in the area.



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DRDO develops chicken biscuits and mutton bars for soldiers deployed in snow-bound areas

The DRDO has developed nutritious and protein-rich food items for the security personnel deployed at high altitude and snow-bound areas.

The Defence Research and Development Organisation (DRDO) has developed nutritious and protein-rich food items for the security personnel deployed at high altitude and snow-bound areas, Parliament was informed on July 21.

According to news agency IANS, the major food products developed by the DRDO in the last three years and the current year are chicken biscuits, protein rich mutton bar, composite cereals bars, egg protein biscuits, iron and protein rich food bar, chicken kathi rolls and anti-fatigue tulsu bar.

The information was provided by defence minister Arun Jaitley in a written reply in the Lok Sabha.

“There is no food production unit in DRDO. However, after developing these products, production technologies have been transferred to various industries for bulk production,” he said, according to the IANS report.

He added that development of nutritional food by DRDO for armed forces was an ongoing process based on their requirements and latest technological research in the area.

Earlier in June, a bullet-proof jacket designed by Indian scientist Dr Shantanu Bhowmick received the union government's nod. The empowered committee of the Ministry of Defence gave its approval for the bullet-proof jacket, which is made from indigenous ultra modern lightweight thermoplastic technology.

A joint collaboration between the DRDO and defence ministry, this is for the first time in 70 years that the Indian Army will have bullet-proof jacket manufactured completely through indigenous technology.

India presently spends Rs 1.5 lakh on a single jacket used by the military and para-military forces and these jackets are imported from America. But, Dr Bhowmick's jacket will cost only Rs 50,000 per jacket. That means India will save Rs 20,000 crores every year.



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Chicken biscuits, Tulsi bars developed by DRDO

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The major food products developed by the Defence Research and Development Organisation (DRDO) in the last three years and the current year are chicken biscuits, protein rich mutton bar, composite cereals bars, egg protein biscuits, iron and protein rich food bar, chicken katti rolls and anti-fatigue tulsi bar, Defence Minister Arun Jaitley said in a written reply in the Lok Sabha.

“There is no food production unit in DRDO. However, after developing these products, production technologies have been transferred to various industries for bulk production,” he said.

He added that development of nutritional food by DRDO for armed forces was an ongoing process based on their requirements and latest technological research in the area.



Sat, 22 July, 2017
(Online)

Chicken katti rolls to mutton bars, DRDO innovates nutritious, delicious food for soldiers

New Delhi, July 22: Now, Indian soldiers guarding borders in mountainous and high-altitude places will be able to enjoy delicious as well as nutritious food. Thanks to the latest innovation by the Defence Research and Development Organisation (DRDO), healthy meals won't be an issue for men in uniform of the Indian armed forces working in tough terrain.

Various nutritious and protein-rich food items have been developed by the DRDO for security personnel deployed at high altitude and snow-bound areas, Parliament was informed on Friday.

The major food products developed by the DRDO in the last three years and the current year are chicken biscuits, protein rich mutton bar, composite cereals bars, egg protein biscuits, iron and protein rich food bar,

chicken katti rolls and anti-fatigue tulsī bar, Defence Minister Arun Jaitley said in a written reply in the Lok Sabha. "There is no food production unit in DRDO.

However, after developing these products, production technologies have been transferred to various industries for bulk production," he said. He added that development of nutritional food by DRDO for armed forces was an ongoing process based on their requirements and latest technological research in the area.



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Chicken Biscuits, Tulsī Bars Developed By DRDO: Arun Jaitley

Other products include chicken biscuits, protein rich mutton bar, composite cereals bars, egg protein biscuits, iron and protein rich food bar, chicken katti rolls and anti-fatigue tulsī bar.

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He added that development of nutritional food by DRDO for armed forces was an ongoing process based on their requirements and latest technological research in the area.



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Chicken biscuit from DRDO

Prime News, July 22:- The Defence Research and Development Organisation (DRDO) has developed a chicken biscuit, anti-fatigue tulsī bar and protein-rich mutton bar for security personnel deployed in high-altitude and snow-bound areas.

According to reports it is said that besides this the DRDO has also developed various nutritious and protein-rich foods like composite cereal bars, egg-protein biscuits, iron-and-protein-rich food bar and protein-based chocolate, said Minister of State for Defence Subhash Bhamre.