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(Online)

Prospina successfully hits 4-km target during trials

Jodhpur: Defence Research and Development Organisation (DRDO) finally tasted success in Prospina missile earlier known as 'Nag' during trials at the Chandan Field Firing Range in Jaisalmer. DRDO officials shared that the trials which concluded on Monday were successful for the extreme heat weather day conditions of the desert here. The missile was tested for a four-kilometre range and if the official sources are to be believed, the next trials will be those of 'User Acceptance Trials' by Army. Interestingly, the DRDO has bailed out the user from compromising upon the range of the missile which was earlier being offered at a 3-3.2-km range.

It is to be mentioned that while the much-delayed Gen-3 Fire and Forget Anti-Tank Guided Missile had successful night trials at a range of four-km earlier last year, the infra-red seekers had a problem in differentiating the target from the surroundings in hot desert conditions during the day time. At one point of time, it was being touted that the missile in its first phase would be inducted at a reduced range of 3-3.2-km during day time but latest set of trials far surpassed all expectations by achieving the earlier target of 4-km for both day and night. Improved High Resolution Imaging Infra Red Radar Seekers (which guide the missile to its target after launch) for extreme hot weather in June were used this time for testing the performance of Prospina as per the officials. These seekers have been developed by Research Centre Imarat (RCI), a Hyderabad based DRDO lab.

Success evaded DRDO for a long time in case of Project Nag, now renamed and launched as 'Prospina', taking this missile out of the cluster of missiles under Integrated Guided Missile Development Programme of (IGMDP) of India. Nag a baby of Defence Research and Development Laboratory (DRDL) of DRDO was earlier a part of the Integrated Guided Missile Development Programme of the DRDO launched in 1980s.

DRDO officials revealed that the missile would now handed over to Army with a 4-km range even during the peak day hours. Highly sensitive detectors have now been placed on missile tip for sensing heat or infra-red signals in three different thermal scenarios including that of a thermal differential within the target, between the target and the background and surrounding temperature variation. Prospina shall be mounted and transported on a Mechanised Infantry Combat Vehicle. Prospina successfully hit the target four kilometres away during a night trial at Mahajan Field Firing Range in Bikaner last year validating the enhanced range of its Imaging Infra Red Radar seeker. The missile previously saw roadblocks since its earlier Imaging Infra Red Seekers were not able to differentiate between the target and surroundings in hot desert temperatures with both reaching the same temperature.

Once fired, Prospina's seeker (Imaging Infra-Red, IIR) guides the missile to the target even if it is a moving target. Talking of the lethality, Prospina carrying an 8 kg HEAT (High Explosive Anti Tank) Warhead is capable of beating even the thickest of modern armours.



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DRDO successfully test fires third generation anti-tank 'Nag' missile in Rajasthan

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The Defence Research and Development Organisation (DRDO) on Tuesday successfully test fired the anti-tank missile "Nag" in a desert in Rajasthan's western sector, PTI reported. Speaking to PTI, defence sources

said, "The missile successfully destroyed the target in today's mission". According to reports, the Nag missile is a third generation "fire and forget" anti-tank missile. It has reportedly also been equipped with highly advanced Imaging Infrared Radar (IRR) seeker and has integrated avionics technology in its arsenal.

This integrated avionics technology, according to the report is possessed by very few countries. The report also stated that the tests that were done in the presence of several scientists from the DRDO, Defence Lab, Jodhpur, and other senior officials from the armed forces among other significant people, had concluded on Tuesday. Meanwhile, G Satheesh Reddy, scientific advisor to the Defence Minister (Arun Jaitley) and DG (missiles and strategic systems), who was also present on the occasion to witness the launch told PTI that the successful test of the missile had strengthened the defence capabilities of the country. The Chairman of DRDO, Dr S Christopher also congratulated the team that was a part of the mission.

Earlier this month, the indigenous nuclear capable Prithvi-II had been successfully testing fired from a range in Odisha. The test launch of the surface-to-surface missile, with a strike range of 350km, was carried out from a mobile launcher from launch complex-3 of the Integrated Test Range (ITR) at Chandipur near Balasore in Odisha. Last month, the Minister of State for Defence, Dr Subhash Bhamre had told Indian Express, "India is capable enough to even counter dual attacks if any... We have an excellent missile technology and our borders are secure, even in the case of dual attacks on Indian land."



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India test-fires anti-tank missile

New Delhi-- India test-fired its anti-tank guided missile namely Nag, Defense Ministry officials said on Wednesday. The missile was test-fired in desert ranges of western state of Rajasthan on Tuesday by India's Defence Research and Development Organization (DRDO).

"The anti-tank guided missile (ATGM) Nag was successfully flight tested in the desert ranges of Rajasthan," Defense Ministry officials said. "The fire and forget 3rd generation ATGM Nag is incorporated with many

advanced technologies including the imaging infrared radar (IIR) seeker with integrated avionics, a capability which is possessed by few nations in the world."

According to defense officials, capabilities of the top attack ATGM Nag are unique in nature and successfully destroyed the target.

"The successful flight test of 3rd generation ATGM Nag further strengthens the country's defence capabilities," G Satheesh Reddy, director general of Missiles and Strategic Systems in the DRDO said.

Senior officials from the Indian military participated in the tests, officials said.



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India Successfully Test-Fires Missile Rival of Israeli Spike & US's Javelin

India has successfully test-fired its third generation anti-tank missile at the Pokhran range. Developed by the Defence Research and Development Organisation (DRDO), the Prospina missile is claimed to be far superior to Javelin of the US and Israeli Spike missile.

New Delhi (Sputnik) — Prospina, which has 'fire & forget' and 'top attack' capabilities, will be highly supportive to the mechanized infantry and airborne forces of Indian Army. The test also comes a few days ahead of Indian Prime Minister Narendra Modi's visit to Israel.

"The Fire and Forget 3rd generation ATGM Nag is incorporated with many advanced technologies including the imaging infrared radar (IIR) seeker with integrated avionics, a capability which is possessed by few nations in the world. The capabilities of the top attack ATGM Nag is unique in nature and in today's mission it successfully destroyed the target," India's Defense Ministry announced on Tuesday evening.

"The successful flight test of 3rd generation ATGM Nag further strengthens the country's defense capabilities," Dr. G. Satheesh Reddy, scientific advisor to country's defense minister & Director General (Missiles and Strategic Systems), said.

Last year, guided flight tests of the missile were carried out with the objective of demonstrating range capabilities of IIR seeker during the worst time of the day in summer. But, it had reported some problems in differentiating the target from the surroundings in temperature above 47 degree Celsius. On the Army's request, scientists made some technical changes and fitted highly sensitive detector for sensing infra red signals.

The Indian Army has a total requirement of 40,000 anti-tank guided missiles in the next 20 years and desperately needs missiles like Prospina which can hit high-speed moving tanks without support of operator.

DRDO has developed this missile at a cost of more than \$51 million. Israeli Spike has won the government tender in 2014 but single vendor situation may create problem for inking deal expected during Modi's visit to Israel in July. India's defense procurement policy has not allowed such purchase where only one company becomes eligible for tender.

Indian government may consider Spike purchase as Israeli firm Rafael Advanced Defense Systems has agreed to transfer the technology of Spike missile under Make in India project whereas contract may be signed for building 1,500 systems and around 30,000 additional missiles in India.

On the other hand, Lockheed Martin and Raytheon Company had entered into a deal with India's Tata Power for the co-development and production of Javelin anti-armor missile system last September.

If Army officers are satisfied with Prospina, the Indian government is likely to prefer it against any foreign missile.

छद्म टारगेट को हिट कर साधा अचूक निशाना

'नाग' मिसाइल का ट्रायल

- पोखरण फील्ड फायरिंग रेंज में 4-5 दिन चलेगा परीक्षण



नाग मिसाइल।

जैसलमेर, (विमल भाटिया): फायर एण्ड फोरगेट वाली थर्ड जनरेशन एन्टी टैंक 'नाग' मिसाइल के अपग्रेड वर्जन प्रोसपीना के लैंड अटैक वर्जन का मंगलवार को पोखरण फील्ड फायरिंग रेंज में परीक्षण किया गया। यह परीक्षण 4-5 दिन चलेगा। सूत्रों के अनुसार पोखरण रेंज में शुरू परीक्षण में मिसाइल से दुश्मन के छद्म टारगेट को हिट कर अचूक निशाना साधा। मिसाइल के इमेजिंग इन्फ्रारेड सीकर्स

में और सुधार किया गया है, जो कि उसे छोड़ने के बाद टारगेट को हिट करने के लिए गाइड करते हैं। गत वर्ष इन्फ्रारेड सीकर्स को टारगेट और उसके आसपास के इलाकों को गर्म

तापमान में पहचान करने में कुछ दिक्कत आ रही थी। इसलिए इस मिसाइल में अब उच्च सिनसेटिव डिटेक्टर्स डाले गए जो कि हीट और इन्फ्रारेड सिग्नल को भांप सके।

दुश्मन का पीछा कर तबाह कर देती है

डीआरडीओ के सूत्रों ने बताया कि दागो और भूल जाओ वाली इस मिसाइल की कई खूबियां हैं, जिसमें इमेज के जरूरी संकेत मिलने पर इसे दागने के बाद ये दुश्मन के टैंक का पीछा करते हुए उसे तबाह कर देगी। इस मिसाइल को पहाड़ी पर या एक से दूसरी जगह ले जाया जा सकता है। इस मिसाइल में इमेजिंग इन्फ्रारेड आईआईआर लगा होता है जो कि टारगेट हिट करने पर गाइड करता है भले ही टारगेट चलायमान हो।

गत वर्ष सफल नहीं हुए थे ट्रायल

गत वर्ष मिसाइल के चार किलोमीटर रेंज के ट्रायल महाजन फील्ड फायरिंग रेंज में हुए थे, लेकिन यह ट्रायल सफल नहीं हुए थे, इसके कारण इस बार इसकी रेंज घटाकर 3 से 3.2 किलोमीटर तक की गई है। गौरतलब है कि महाजन फील्ड में परीक्षण किए गए थे, उसमें थर्मल टारगेट सिस्टम टीटीएस का इस्तेमाल किया गया था, जो कि जोधपुर की सेना प्रयोगशाला में विकसित किया गया था।

350 करोड़ से ज्यादा का बजट

सूत्रों ने बताया कि मिसाइल को सेना की आरडी प्रयोगशाला हैदराबाद में विकसित किया है, इस पर अब तक 350 करोड़ से ज्यादा का बजट लग चुका है। इस मिसाइल को दिन और रात इस्तेमाल किया जा सकता है।

दैनिक जागरण

'नाग' मिसाइल का परीक्षण शुरू

जागरण संवाददाता, जयपुर : थर्ड जनरेशन एंटी टैंक मिसाइल 'नाग' का परीक्षण जैसलमेर की पोखरण फील्ड फायरिंग रेंज में प्रारंभ हो गया है। डीआरडीओ निर्मित मिसाइल का परीक्षण चार दिन तक चलेगा। पाकिस्तान सीमा के पास पोखरण फायरिंग रेंज में इस मिसाइल का परीक्षण महत्वपूर्ण माना जा रहा है। इसी फायरिंग रेंज में अमेरिका से खरीदी गई यूएवी होवित्जर तोपों का परीक्षण भी इन दिनों चल रहा है। मिसाइल नाग के परीक्षण के दौरान डीआरडीओ और

सेना के अधिकारी मौजूद हैं पिछले वर्ष बीकानेर फायरिंग रेंज में इसी मिसाइल का परीक्षण किया गया था, लेकिन उस दौरान उच्च तापमान में मिसाइल के परीक्षण में कुछ तकनीकी खामियां सामने आई थीं। पिछले वर्ष मिसाइल की मारक क्षमता चार किलोमीटर रखी गई थी, लेकिन इस बार तीन किलोमीटर रखी गई है। पिछले वर्ष इस मिसाइल को गाइड करने के लिए इसमें लगा इमेजिंग इन्फ्रारेड सिकर अधिक गर्मी के दौरान सही काम नहीं कर सका था।