

## Fire-and-forget missile Prospina set for trials in Pokhran range

### Highlights

- *The Gen-3 Fire and Forget Anti-Tank Guided Missile Prospina earlier known as Nag is back in the desert ranges*
- *It had successful night trials at a range of four km earlier last year at Mahajan Field Firing Range in Bikaner*
- *Prospina shall be mounted and transported on a Mechanised Infantry Combat Vehicle*

Jodhpur: Inching closer to the induction, the Gen-3 Fire and Forget Anti-Tank Guided Missile Prospina earlier known as Nag is back in the desert ranges of Rajasthan for trials.

Successful trials of the ATGM in June this year, bestowed Defence Research and Development Organisation (DRDO) with the much-awaited success at the Chandan Field Firing Range in Jaisalmer, the missile now as per the official sources is back again for not only the revalidation of the previous trials but also for the final leg of trials here.

What is more commendable is that the missile is being tested for its full four kilometre range. The officials said that if all goes well, the 'User Acceptance Trials' by Army will also be around the corner.

At one point of time, it was being touted that the Army might have to induct the missile in its first phase at a reduced range of 3-3.2 km during day time since its earlier Imaging Infrared Seekers were not able to differentiate between the target and surroundings in hot desert temperatures with both reaching the same temperature.

Nag/Prospina has been incorporated with many advanced technologies including the high resolution Imaging Infrared (IIR) Seeker with integrated avionics. The much awaited and the much delayed Prospina Missile had successful night trials at a range of four km earlier last year at Mahajan Field Firing Range in Bikaner.

Highly sensitive detectors or seekers have now been placed on missile tip for sensing heat or infrared 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.. The successful trials in June this year, which reportedly far surpassed all expectations by achieving the target of 4km for both day and night were carried out by a team of scientists of Dr APJ Abdul Kalam Missile Complex at Hyderabad and ARDE and HEMRL at Pune.

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 successfully tested anti-tank guided missile Nag, says Defence Ministry**

The Centre said Friday's flight-tests meant that the development trials of the missile had been completed.

The Defence Research and Development Organisation on Friday successfully flight-tested India's indigenously developed third-generation anti-tank guided missile Nag, the Defence Ministry said on Saturday, reported PTI.

"The ATGM Nag has successfully hit both the targets under different ranges and conditions with very high accuracy, as desired by the armed forces," the ministry said in a press release. The ministry further said that Friday's successful test flight meant that the development trials of the missile had been completed.

The missile can hit a target of up to seven kilometres and was tested against two different targets in Rajasthan.



## **Nag Missile in Line for Induction, DRDO Carries Out Range Test Successfully**

*By Puneet Dubey*

After a successful trial of the Anti-Tank Guided Missile (ATGM) Prospina back in June 2017, the missile has passed its final trial in Rajasthan's desert range on Friday before its induction into the army.

The Defence Research and Development Organisation (DRDO) successfully tested the flight of India's indigenously developed third generation Anti Tank Guided Missile (ATGM) also known as 'Nag' twice in the Rajasthan test range.

An official statement after the test said, "The missile hit both the targets under different ranges and conditions with very high accuracy as desired by the armed forces.

"With these two successful flight trials, and the flight test conducted earlier in June in the peak of summer, the complete functionality of Nag ATGM along with launcher system NAMICA has been established and marked the successful completion of development trials of Nag Missile," it added.

The Nag project, now re-launched under the name Prospina, is a 4-Km range missile system incorporated with most advanced technologies. The missile has high resolution Imaging Infrared (IIR) Seeker, which that can sense heat or infrared signals in three different thermal scenarios.

It also has an integrated avionics and has successfully passed the night trials at a range of four km range in Bikaner's Mahajan Field Firing Range.

The missile test back in June was a surpasses everyone's expectations by successfully reaching the target 4-km away in both day and night. The trial was carried out by a team of scientists of Dr APJ Abdul Kalam Missile complex at Hyderabad and ARDE and HEMRL at Pune.

The missile's successful test comes as a great victory for the Defence Research and Development Organisation which has been tasked to provide the Indian forces with indigenous arms.

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## **Anti Tank Guided Missile Nag Successfully Tested by DRDO Twice in Rajasthan**

*By Diane Wilson*

In a boost to Indian Armed Forces, Defence Research and Development Organisation (DRDO) successfully tested Nag, the 3rd generation Anti Tank Guided Missile (ATGM), against two different targets in the ranges of Rajasthan. What is more commendable is that the missile is being tested for its full four kilometre range. DRDO had described the test as a success, as it hit the Thermal Target System (TTS), used as the target for the missile, with bull's eye precision.

"The missile successfully hit the targets on both the occasions under different ranges with very high accuracy as desired by the Armed Forces. Earlier in June, it too had successfully demonstrated its capability in the peak of summer", he said. Though the missile was to be handed over to Army in June past year, it was deferred due to delay in completion of developmental trials due to some technical reasons.

Press Trust of India reports that DRDO has been trying to ramp up country' military capability in sync changing security dynamics in the region. On July 3, India had successfully test fired a quick reaction surface-to-air short-range missile, which was also indigenously built, from a test range off the Odisha coast. This was the second developmental trial of the state-of-the-art missile with an aerial target. Nag missile has a land variant and an air launched variant.

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## **DRDO successfully tests its third generation Anti Tank Guided Missile 'Nag'**

*By Doris Roberson*

India's indigenously developed 3rd generation Anti Tank Guided Missile (ATGM), Nag was successfully flight tested twice by DRDO on Saturday against two different targets in the ranges of Rajasthan. ATGM Nag successfully hit both targets under different ranges and conditions with very high accuracy as desired by the armed forces, ANI reported.

Inching closer to the induction, the Gen-3 Fire and Forget Anti-Tank Guided Missile Prospina earlier known as Nag is back in the desert ranges of Rajasthan for trials.

The missile is equipped with many advanced technologies, including the IIR seeker with integrated avionics, a capability possessed by a few nations in the world. created to destroy modern main battle tanks and other heavily armoured targets, it incorporates an advanced passive homing guidance system and possesses high single-shot kill probability.

The ministry also added that the Friday's test firing marked the completion of the trials. The successful trials in June this year, which reportedly far surpassed all expectations by achieving the target of 4km for both day and night were carried out by a team of scientists of Dr APJ Abdul Kalam Missile Complex at Hyderabad and ARDE and HEMRL at Pune.

Press Trust of India reports that DRDO has been trying to ramp up country' military capability in sync changing security dynamics in the region. The first test launch of the missile was conducted on June 4, from the launch pad number 3 of Chandipur. It is a quick reaction, all-weather, network-centric missile system capable of search-on-the-move.