

India successfully test-fires indigenously developed supersonic interceptor missile: Defence officials

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According to reports, the launch of the Interceptor Missile was carried out by Defence Research and Development Organisation (DRDO) from Abdul Kalam Island off Odisha coast today. (Representative Image: Reuters)

India has successfully test-fired indigenously developed supersonic interceptor missile, Defence officials have revealed. According to reports, the launch of the Interceptor Missile was carried out by Defence Research and Development Organisation (DRDO) from Abdul Kalam Island off Odisha coast today. The anti-missile missile is capable of destroying any incoming enemy ballistic missile at low altitude.

In its attempt to create a multi-layer missile defence system in India, the DRDO has conducted this exercise for the second time in less than a month. An official said, "Today's test launch was conducted in order to validate various parameters of the interceptor in flight mode."

In today's trial in Balasore (Odisha), the interceptor missile was fired at a target in the form of a Prithvi missile (which played the role of a hostile missile) launched from the Integrated Test Range (ITR) at Chandipur, which was launched at 10.10 in the morning.

According to officials, who provided an insight into the dramatic launch, after about four minutes the interceptor, Advanced Air Defence (AAD) missile, which was stationed at Abdul Kalam Island in the Bay of

Bengal, received signals from radars about the incoming rogue missile. The interceptor was launched and managed to destroy the incoming hostile missile in mid-air.

DRDO claimed a huge success and said, "The mission was excellent and it was a direct hit."

DRDO explained that the interceptor missile is 7.5-meter long, single stage solid rocket propelled guided missile, that carries a navigation system, a hi-tech computer and an electro-mechanical activator. It also has its own mobile launcher, secure data link for interception, independent tracking and homing capabilities aside from radars.

Last month on the 11th, in yet another exercise, but this time at high altitude of above 50 km, DRDO had successfully destroyed an incoming hostile ballistic missile off the Odisha coast. Last year in May, this time at low altitude, DRDO had carried out successful test launch.

Isro had on 15th February successfully placed a world record 104 satellites into space that included 101 foreign satellites and three Indian ones on in a single launch on the sturdy and reliable PSLV-XL ((Polar Satellite Launch Vehicle) rocket to cement the country's position as a space tech global leader. Thereafter, except for 2 Indian nano satellites, all the rest 102 satellites have been reported as fully functioning in their desired orbits.

India had gone past Russia's 37 in terms of the number of satellites launched by a single rocket achieved in 2014 that it had managed by using a modified inter-continental ballistic missile. In June 2016, India had achieved a national record after sending as many as 20 satellites into space in one launch.



*Wed, 01 Mar, 2017
(Online)*

DRDO test-fires home-grown supersonic interceptor missile

BALASORE: India today successfully test-fired its indigenously developed supersonic interceptor missile capable of destroying any incoming enemy ballistic missile at low altitude.

This the second time that the missile has been test-fired in less than a month and is part of an effort to put in place a multi-layer missile defence system.

"Today's test launch was conducted in order to validate various parameters of the interceptor in flight mode," a defence official said, adding that it was a low altitude trial.

The interceptor was engaged against a target which was a Prithvi missile launched from launch complex 3 of the Integrated Test Range (ITR) at Chandipur near here, taking up the trajectory of a hostile ballistic missile.

The target missile was launched at about 10.10 hours from Chandipur.

After about four minutes the interceptor, Advanced Air Defence (AAD) missile positioned at Abdul Kalam Island in the Bay of Bengal, getting signals from tracking radars, roared through its trajectory to destroy the incoming hostile missile in mid-air, in an endo-atmospheric altitude, the official said.

"The mission was excellent and it was a direct hit," said a scientist of the Defence Research Development Organisation (DRDO).

The interceptor is a 7.5-meter long single stage solid rocket propelled guided missile equipped with a navigation system, a hi-tech computer and an electro-mechanical activator, the official said.

The interceptor missile had its own mobile launcher, secure data link for interception, independent tracking and homing capabilities and sophisticated radars, the official added.

On February 11, an incoming hostile ballistic missile target was successfully intercepted at high altitude, above 50 km of the earth's atmosphere by an exo-atmospheric interceptor missile off the Odisha coast.

Earlier, a low altitude (endo-atmospheric) test of AAD missile was successfully test launched on May 15, 2016 from the same base.

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Balasore: Interceptor Missile Test-Fired by DRDO

Balasore: An interceptor missile was test-fired from the Abdul Kalam Island (Wheeler Island) off Odisha coast at 10.15 am today by the Defence Research and Development Organisation (DRDO) in presence of senior scientists and officials of the Strategic Forces Command.

As the interceptor missile is auto-launched type after receiving commands from the radars on the incoming missile, a Prithvi variant mimicking an enemy missile was fired from Chandipur test range at 10.10 am.

The single-stage solid rocket propelled guided interceptor missile is 7.5 metre tall and equipped with inertial navigation system and electro-mechanical activator under command by the data up-linked from ground-based radar.



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Jindal Stainless inks license pact with DRDO; stock makes new 52-week high

Jindal Stainless (Hisar) Limited has signed a license agreement with Defence Research and Development Organisation (DRDO), which entails transfer of technology for the manufacturing of High Nitrogen Steel (HNS) for armour applications.

The stock price of Jindal Stainless surged to Rs 119.50 per share in the early morning trade today, making new 52-week high, and is now trading at Rs 116.60 per share, with an increase of 1.6% or Rs 1.90 per share on the BSE.

Jindal Stainless (Hisar) Limited has signed a license agreement with Defence Research and Development Organisation (DRDO), which entails transfer of technology for the manufacturing of High Nitrogen Steel (HNS) for armour applications.

Post this development, Jindal Stainless has become India's first company to commercially manufacture high nitrogen steel for the defence sector.

Besides, HNS will also replace Jackal Armour Steel, which is currently imported, as the new raw material.

HNS is ballistic and blast protection material, which will decrease both the weight and the cost of armed force vehicles. The agreement aims at decreasing the acquisition cost by approximate 50% for the defence sector.

Stock view:

Jindal Stainless (Hisar) Ltd is currently trading at Rs 117.5, up by Rs 2.9 or 2.53% from its previous closing of Rs 114.6 on the BSE.

The scrip opened at Rs 116.5 and has touched a high and low of Rs 119.5 and Rs 115.2 respectively.

So far 893132(NSE+BSE) shares were traded on the counter. The current market cap of the company is Rs 2703.81 crore.

The BSE group 'B' stock of face value Rs 2 has touched a 52 week high of Rs 117.45 on 08-Feb-2017 and a 52 week low of Rs 24.05 on 28-Mar-2016.

Last one week high and low of the scrip stood at Rs 115.7 and Rs 105.8 respectively. The promoters holding in the company stood at 54.65 % while Institutions and Non-Institutions held 26.5 % and 18.84 % respectively. The stock is currently trading above its 50 DMA.



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(Online)

Jindal Stainless (Hisar) spikes 4% on new agreement with DRDO

The stainless steel maker signed a licence agreement with Defence Research and Development Organisation (DRDO) to help manufacture high nitrogen steel

Shares of Jindal Stainless (Hisar) rose over 4 percent intraday on Wednesday as investors cheered the company's new agreement with the country's defence body. The stainless steel maker entered into a licence agreement with the Defence Research and Development Organisation (DRDO), which entails transfer of technology to manufacture high nitrogen steel (HNS) for Armour applications, according to a notification filed to the exchanges by the firm.

The company claims that the use of HNS will replace Armour steel, an existing material which is mostly imported. This, it says, will result into 50 percent cost efficiency in material acquisition.

"This development reaffirms our endeavour to achieve higher benchmarks. We look forward to collaborate with Ministry of Defence to achieve greater efficacy of Indian armed forces and then take forward our capabilities," said Abhyuday Jindal, vice-chairman, Jindal Stainless (Hisar).

The company's management is optimistic on the deal and sees defence opportunity at 30,000-40,000 tonnes in 3-4 years. In an interview to CNBC-TV18, Abhyuday Jindal, vice chairman, Jindal Stainless (Hisar) said that steel volumes will increase by 10-15 percent this year. Its capacity utilization currently stands at 100 percent. Additionally, Jindal expected margins for the current year to be at 12-15 percent. At 12:12 hrs, the stock was quoting at Rs 116.00, up Rs 1.40, or 1.22 percent, on the BSE. It touched a 52-week high of Rs 119.50.



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Jindal SHL to make high-nitrogen steel for Defence sector

New Delhi, Mar 1 (PTI) The country's largest stainless steel maker Jindal Steel (Hisar) (JSHL) today marked its foray into the Defence sector by forging a pact with DRDO for transfer of technology rel

New Delhi, Mar 1 (PTI) The country's largest stainless steel maker Jindal Steel (Hisar) (JSHL) today marked its foray into the Defence sector by forging a pact with DRDO for transfer of technology relating to high-nitrogen steel for armour applications.

"The use of high-nitrogen steel will replace the existing import of rolled homogeneous armour (RHA), resulting in improved cost efficiency in material acquisition for armour applications by 50 per cent," JSHL said after the pact was signed in the presence of Minister of State for Defence Subhash Bhamre today.

Addressing the event, Bhamre said it is a breakthrough technology for armour applications and boosts indigenous technologies, in line with the Prime Minister Narendra Modi's 'Make in India' vision.

Terming it as a "comprehensive" joint effort, JSHL said it took almost a decade of R&D by JSHL and Defence Metallurgical Research Laboratory (DMRL) to develop high-nitrogen steel (HNS).

“This will usher in self-reliance and global leadership in Defence,” Bhamre said, urging the industry to explore further upgradation of technology.

JSHL said it forayed into the Defence sector by “signing the licence agreement with the Defence Research and Development Organisation (DRDO), Ministry of Defence, which entails transfer of technology for manufacturing HNS for armour applications”.

With this, JSHL claims to be India’s first company to commercially manufacture HNS for the Defence sector.

The company said this development will not just accelerate the indigenisation process of the Indian Defence arsenal in line with ‘Make in India’, but help in easy availability of best material to manufacture lighter armoured vehicles as import procurement often delays the manufacturing process.

HNS is corrosion resistant and provides exceptional ballistic and blast protection than the existing material at a much reduced thickness along with longevity which increases the fuel and mass efficiency.

It exhibits higher energy absorption level, enhances crash worthiness to the entire artillery system and has significantly higher impact values with a far superior material for blast protection.

“HNS has passed multiple levels of ballistic tests in different calibers with 8-10 times higher impact and blast protection,” the company said.

It said it has potential application in all armoured vehicles, including infantry combat vehicle (ICV), light speciality vehicle (LSV), light armoured multi-purpose vehicle (LAMV), futuristic infantry combat vehicle (FICV), main battle tank (MBT), future ready combat vehicle (FRCV), aviation and naval systems.