

## QUICK REACTION MISSILE **TEST-FIRED SUCCESSFULLY**



Quick reaction surface-to-air missile of the DRDO is test fired successfully from ITR Chandipur, off the Odisha Coast, on Monday. — PTI

India on Monday successfully test-fired its indigenously developed quick reaction surface-to-air short range missile (QRSAM), which has a capability of engaging multiple targets, from a test range along the Odisha coast.

The missile developed by DRDO was test-fired at about 11.30 am from from launch complex-3 at the

integrated test range at Chandipur near here.

"All technologies and subsystems incorporated in the missile performed well, meeting all the mission requirements. All the radars, electro optical systems, telemetry systems and other stations have tracked the missile and monitored all the parameters. The missile test met

all the objectives," a DRDO official said after the successful flight-test.

The QRSAM is a quick reaction, all-weather and network-centric search-on-the-move missile system. It can engage multiple targets at a range of about 30 km with two vehicle configuration for area air defence.



## Quick Reaction Surface-to-Air Missile successfully test fired

This was the second developmental trial of the state-of-the-art missile with an aerial target. The missile has been developed by the DRDO and other establishments. The first test launch of the missile was conducted on June 4, 2017 from the same base. The indigenously developed Quick Reaction Surface-to-Air (QRSAM) short range missile, which has a capability of engaging multiple targets, was successfully test-fired from a test range along the Odisha coast on Monday. The missile has a strike range of 25 km to 30 km. Designed to be a quick

reaction missile, it involves an all-weather weapon system capable of tracking and firing. The missile was test-fired at about 11.30 am from a truck-mounted canister launcher from launch complex-3 at the Integrated Test Range (ITR) at Chandipur near Balasore, Defence Research and Development Organisation (DRDO) sources said.

All the technologies and sub-systems incorporated in the sophisticated missile have performed well, meeting all mission requirements, they said. All radars, electro optical systems, telemetry systems and other stations have tracked the missile and monitored all parameters and the test met all the objectives, the sources said.

Defence Minister Arun Jaitley congratulated the DRDO on the successful trial of QRSAM and said it is an important milestone in the indigenous surface-to-air missiles (SAM) development. Dr S Christopher, Secretary, Defence R & D also congratulated all scientists on the successful test. Director Defence Research and Development Laboratory MSR Prasad, Director Research Center Imarat BVHS N Murthy, and Director ITR Dr B K Das monitored the launch operation. Dr G Satheesh Reddy, the scientific advisor to the defence minister, were present during the test.

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## पंजाब केसरी

Tue, 04 July, 2017

# एक और मिसाइल का परीक्षण

बालेश्वर (ओडिशा), (भाषा): त्वरित प्रतिक्रिया के साथ सतह से हवा में मार करने वाली स्वदेश निर्मित (क्यूआरएसएएम) कम दूरी की मिसाइल का आज ओडिशा के समुद्र तट के पास एक परीक्षण रेंज से सफलतापूर्वक परीक्षण किया गया जिसमें एक साथ कई लक्ष्यों पर निशाना साधने की क्षमता है। मिसाइल में 25 से 30 किलोमीटर की दूरी तक प्रहार करने की क्षमता है और इसे त्वरित प्रतिक्रिया वाली मिसाइल के रूप में तैयार किया गया है। इसमें हर मौसम में काम करने वाली शस्त्र प्रणाली है जिसमें लक्ष्य को पहचानने और उस पर निशाना साधने की क्षमता होती है। रक्षा अनुसंधान और विकास संगठन (डीआरडीओ) के सूत्रों ने बताया कि चांदीपुर में एकीकृत परीक्षण रेंज (आईटीआर) में स्थित प्रक्षेपण परिसर-3 से एक ट्रक पर लगे कैनिस्टर के लांचर से सुबह करीब 11.30 बजे मिसाइल का परीक्षण-प्रक्षेपण किया गया। उन्होंने कहा कि इस अत्याधुनिक मिसाइल में लगी सभी प्रौद्योगिकियों और उप प्रणालियों ने अच्छा प्रदर्शन किया और मिशन की सभी जरूरतों को पूरा



### नई उपलब्धि

- 25 से 30 किलोमीटर दूरी तक प्रहार करने वाली स्वदेशी मिसाइल

किया। सूत्रों के अनुसार सभी राडारों, इलैक्ट्रो ऑप्टिकल प्रणाली, टेलीमेट्री प्रणालियों और अन्य स्टेशनों ने मिसाइल पर निगरानी रखी और सभी मानदंडों पर नजर रखी। परीक्षण के सभी उद्देश्यों की पूर्ति हुई। रक्षा मंत्री अरुण जेटली ने क्यूआरएसएएम के सफल परीक्षण

पर डीआरडीओ को बधाई दी और कहा कि यह सतह से हवा में प्रहार करने वाली स्वदेशी मिसाइलों (एसएएम) के विकास में एक महत्वपूर्ण मील का पत्थर है। रक्षा अनुसंधान और विकास (आरएंडडी) के सचिव डॉ. एस. क्रिस्टोफर ने सफल परीक्षण पर सभी वैज्ञानिकों को बधाई दी। रक्षा अनुसंधान और विकास प्रयोगशाला के निदेशक एमएसआर प्रसाद, अनुसंधान केंद्र इमारत बीवीएचएस के निदेशक एन. मूर्ति और आईटीआर के निदेशक डॉ. बीके दास ने प्रक्षेपण अभियान पर नजर रखी।

## ओडिशा में क्यूआर मिसाइल का परीक्षण

जागरण संवाददाता, बालासोर : ओडिशा के चांदीपुर परीक्षण स्थल एलसी-3 (लांच कॉम्प्लेक्स-3) से सोमवार की दोपहर 12:26 बजे क्विक रिस्पॉस (क्यूआर) सरफेस टू एयर मिसाइल का परीक्षण किया गया। रक्षा अनुसंधान एवं विकास संगठन (डीआरडीओ) द्वारा विकसित यह मिसाइल हवा में 15 से 20 किलोमीटर की दूरी तक किसी

भी लक्ष्य को भेदने में सक्षम है। यह मिसाइल काफी कम समय में किसी भी शत्रु मिसाइल को मार गिराने की क्षमता रखती है। सोमवार को इसके परीक्षण के मौके पर डीआरडीओ तथा आइटीआर (इंटीग्रेटेड टेस्ट रेंज) से जुड़े वैज्ञानिक व अधिकारियों का दल मौजूद था। इस मिसाइल का पहला परीक्षण चार जून को किया गया था और सोमवार को इसका विकसित परीक्षण माना जा रहा है।



## Defence Minister Arun Jaitley congratulates DRDO on successful missile test

*Defence Minister Arun Jaitley complimented the DRDO and said the successful test firing. "The indigenously built Quick Reaction Surface-to-Air (QRSAM) missile, which has a capability of engaging multiple targets, was test-fired from a test range along the Odisha coast."*

Defence Minister Arun Jaitley on Monday said the successful test firing of a quick reaction surface-to-air missile paved the way for complete indigenisation of surface-to-air missiles. He complimented the DRDO and said the successful test firing will add to India's defence capabilities. "The indigenously built Quick Reaction Surface-to-Air (QRSAM) missile, which has a capability of engaging multiple targets, was test-fired from a test range along the Odisha coast on Monday.

"Congratulations to DRDO for successfully test firing Quick Reaction Surface to Air Missile. This will add to India's defence capabilities," Jaitley tweeted. The missile has a strike range of 25 km to 30 km. Designed to be a quick reaction missile, it involves an all-weather weapon system capable of tracking and firing.



## DRDO is sharper and quicker now

After working for long years on development of missile systems such as Agni-series and Akash missile systems, DRDO's learning process has been shortened by several years now while developing new weapons. DRDO proved this on Sunday when it successfully test-fired the indigenous Quick Reaction Surface-to-Air Missile system taking only a short time to develop the system. This is definitely making the armed forces very happy.

Tue, 04 July, 2017

## Deadline close, 300 hands work on A P J Abdul Kalam memorial

By Sudhakar Jagdish

*A handful of tourists do come to the ground even now, some to look at the structure, others having visited Kalam's home at Rameswaram and now stopping over to complete what they count as a "pilgrimage".*

It's a Monday afternoon and the road to Rameswaram temple from Pamban is almost deserted, except along a 30-metre stretch that is bustling with activity. Two cranes lift large boulders of concrete, masons lay large slabs on what looks like a stair-like structure, and two men put plaster on the bottom of a dome-like structure. Below them is a board with a large 9 written on it, a countdown on the number of days remaining for completion of work.

This is where former President A P J Abdul Kalam was laid to rest, and where a yellow-and-red memorial is being built.

A truck full of grass carpets arrives. As labourers unload them, the supervisor rebukes them for dumping it on the roadside. "Kisne kaha tha yahan rakhney ke liye... kaun hai driver. Pata bhi hai usko ki Delhi se ye ghaas hai.. ab saare peele pad jaayenge." He tells the labourers, who understand very little Hindi, to take the grass carpets to the site where red soil fields have been laid out amid sandy surroundings. All the green plants and shrubs, even palm saplings, have been brought from Delhi to give the memorial a green look before July 27, Kalam's second death anniversary, when the Prime Minister and other ministers are likely to arrive and pay tribute.

Over 300 labourers are at work, with a dozen supervisors — both from the defence ministry and private contractors. "We work from 7 am to 9 pm," says a supervisor whose company is contracted with DRDO. "It's a DRDO project and the memorial will be under the defence ministry's care." The Centre has allotted Rs 50 crore for the project.

Rameswaram will have a new tourist spot, he says. A handful of tourists do come to the ground even now, some to look at the structure, others having visited Kalam's home at Rameswaram and now stopping over to complete what they count as a "pilgrimage".

They are greeted by two ice-cream vendors and a stall selling sea shells and conches. There is a steel-framed bus stop, with a large hoarding of a smiling Jayalalithaa. Buses don't usually stop here unless asked to, but things will change soon, the supervisor says.

A family from Chennai makes a brief halt. Stepping out of their white SUV, they start taking selfies. "It's the president's memorial. so we had to stop," says Elan. So what's his view on the upcoming presidential elections? "When is it? I don't know. For us, there has been only one President. Kalam Sir."