



**KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS
OUT MRSAM MISSILE KITS FOR THE ARMED FORCES**

MEDIA DOSSIER

December 13, 2022

Wires

No.	Channel	Headline	Date
1	ANI News	Kalyani Rafael rolls out Medium Range Surface to Air Missile Kit for Indian armed forces	December 13, 2022
2	PTI	Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	December 13, 2022

Headline : Kalyani Rafael rolls out Medium Range Surface to Air Missile Kit for Indian armed forces	Domain : ANI News
Date : December 13, 2022	Journalist: ANI

<https://www.aninews.in/news/national/general-news/kalyani-rafael-rolls-out-medium-range-surface-to-air-missile-kit-for-indian-armed-forces20221213170906/>

Hyderabad (Telangana) [India], December 13 (ANI): Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile (MRSAM) Kit for delivery to the Indian Armed Forces.

The kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defense Systems Ltd and Defence Research and Development Organisation (DRDO) and manufactured in collaboration with Indian industry comprising of both private and public sector players including the Micro, Small and Medium Enterprises (MSMEs). The event was graced by many senior DRDO and military officials.

Speaking on the momentous occasion, Baba N Kalyani, Chairman and Managing Director of Bharat Forge Ltd stated that KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces.

"This delivery is not only a shining example of synergy between India and Israel and the private and public sector but also reinforces our commitment to Aatmanirbhar Bharat as envisioned by our Prime Minister Narendra Modi".

He also added that "apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in-service Air Defence Missile Systems to the Armed Forces". (ANI)

Headline : Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	Domain : PTI
Date : December 13, 2022	Journalist:

<https://www.ptinews.com/news/business/kalyani-rafael-advanced-systems-rolls-out-mrsam-kit-for-indian-armed-forces/475279.html>

Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces.

According to a release from the company, the kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defence Systems Ltd and DRDO and manufactured in collaboration with Indian industry comprising both private and public sector players including MSMEs.

Speaking on the occasion, Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd said KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces.

“This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to Atma Nirbhar Bharat as envisioned by our Prime Minister Shri Narendra Modi”.

He also added that “apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in service Air Defence Missile Systems to the Armed Forces,” Kalyani said.

Yoav Har-Even President and CEO Rafael said the Israeli firm has been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to Aatma Nirbhar Bharat.

KRAS, being a joint venture is a testament to the enhanced cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group, he added.

Electronic

No.	Channel	Headline	Date
1	Zee News	<u>Mr. Baba Kalyani, CMD, Bharat Forge Limited In Talk With Zee Business</u>	13 December 2022
2	CNBC TV18	<u>KRAS Rolls Out 100th MRSAM Kits For India's Armed Forces</u>	14 December 2022
3	CNBC Awaaz	<u>Seedha Sauda</u>	13 December 2022



Headline: Mr. Baba Kalyani, CMD, Bharat Forge Limited In Talk With Zee Business

Publication : Zee Business

Date : December 13, 2022

[Link](#)

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SITI (Bihar & Jharkhand, WB)- 186 | DEN-355/356 | Hathway- 241 | GTPL- 259 | Fastway- 220 | UCN- 122

Headline: KRAS Rolls Out 100th MRSAM
Kits For India's Armed Forces

Publication : CNBC TV18

Date : December 14, 2022

[Link](#)



Headline: Seedha Sauda

Publication : CNBC Awaaz

Date : December 13, 2022



SGX NIFTY UPDATE

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**हैदराबाद में MRSAM
मिसाइल को दिखाएगी
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MOTILAL OSWAL

Print Coverage

No.	Publication/Portal	Headline	Date
1	The Financial Express	<u>Kalyani Rafaeles 100th mid-range missile kits</u>	14 December 2022
2	Business Standard	<u>Kalyani Rafael rolls out 100th surface-to-air missile kit</u>	14 December 2022
3	The Hindu	<u>100th Surface-to-Air missile kit rolled out</u>	14 December 2022
4	The New Indian Express	<u>Hyd-based KRAS to provide 1000 missile kits to Indian Army</u>	14 December 2022
5	Surya	<u>100th Surface-to-Air missile kit rolled out</u>	14 December 2022
6	Telangana Today	<u>Kalyani-Rafael rolls out MRSAM Kit for armed forces</u>	14 December 2022
7	Eenadu	<u>Kalyani-Rafael rolls out MRSAM Kit for armed forces</u>	14 December 2022

Headline: Kalyani Rafae's 100th mid-range
missile kits

Publication : The Financial Express

Date : December 14, 2022

Edition: All

Kalyani Rafael's 100th mid-range missile kits



KALYANI RAFAEL
Advanced Systems
(KRAS) on Tuesday
rolled out the 100th
medium-range surface-to-air
missile (MRSAM) kit for delivery to
the Indian Armed Forces. The kit is
part of the MRSAM air defence
missile jointly developed by
Rafael Advanced Defense Systems
and DRDO

PTI

Headline: Kalyani Rafael rolls out 100th surface-to-air missile kit

Publication : Business Standard

Date : December 14, 2022

Edition: Bangalore, Mumbai, New Delhi

Kalyani Rafael rolls out 100th surface-to-air missile kit

AJAI SHUKLA

New Delhi, 13 December

Kalyani Rafael Advanced Systems (KRAS), on Tuesday, rolled out in Hyderabad the 100th kit it has manufactured of the eponymous medium-range surface-to-air missile (MRSAM).

KRAS is a joint venture set up by Israeli company, Rafael, in partnership with Kalyani Strategic Systems. They hold 49 and 51 per cent stake, respectively. The Defence Research and Development Organisation (DRDO) has developed this lethal missile for the Army, Navy, and Air Force, in close partnership with Israel Aerospace Industries (IAI).

It is the Indian military's first tri-services missile, which will protect naval warships, Air Force bases, and Army combat units from airborne attacks. About 20-30 per cent of the MRSAM has been developed by DRDO, including the missile's propulsion system that is based on a sophisticated dual-pulse rocket motor, its thrust vector controls, and electrical harness (wiring).

IAI has designed and developed the other 70-80 per cent of the MRSAM, including the Elta MF-STAR radar, which is the heart of the system. On July 11, 2019, the Indian defence ministry awarded KRAS a \$100 million contract to build the mid-sections of 1,000 missiles. These will be integrated with MRSAM components built elsewhere into combat-ready missile systems by the defence public sector undertaking Bharat Dynamics (BDL).

The MRSAM is regarded as one of the world's most lethal surface-to-air missiles. The naval version of the MRSAM, called LRSAM (long-range surface-to-air missile), protects Indian warships from sea-skimming and anti-ship missiles. It is stored in, and fired from, sealed canisters below warship decks, to protect the missile from the corrosive marine environment.

The LRSAM has been operationally deployed only

on three Indian Navy destroyers — INS Kolkata, Chennai, and Kochi. Each carries 32 missiles in vertical launch unit canisters. Now the LRSAM is being fitted on four more destroyers being built under Project 15B and seven frigates being constructed under Project 17A. The Indian Air Force

version of the MRSAM is mounted on trailers and is fired from the open at enemy fighters coming in to attack airbases and other high-priority targets.

The Army version of the MRSAM is mounted on high-mobility vehicles that keep up with tank columns moving cross-country. All three versions of the missile are identical, except for the software that controls their 'self-destruct' function. The MRSAM is expensive, with a price of ₹6 crore per missile. But that is considered reasonable by many, given that it shoots down sophisticated fighters costing hundreds of crores; and

protects warships that cost thousands of crores.

So confident is the military in the MRSAM that, in September 2016, when the Army was planning to strike Pakistan-backed terrorist camps across the Line of Control (LoC) to avenge the killing of 19 Indian soldiers near Uri, the MRSAM — then still under development — was moved from BDL to protect a particularly vulnerable Air Force base.

When Indian commandos crossed LoC on the night of September 28, 2016, the MRSAM was ready for operational use. As it turned out, the missiles were not required. KRAS will deliver more than 1,000 MRSAM production kits over the next three to four years. In the case of export orders, the numbers could increase.

Kalyani Group chief Baba Kalyani said: "This delivery is not only a shining example of synergy between India and Israel and the private and public sector, but also reinforces our commitment to Aatma Nirbhar Bharat as envisioned by Prime Minister Narendra Modi."

It is the Indian military's first tri-services missile, which will protect naval warships, Air Force bases, and Army combat units

Headline: 100th Surface-to-Air missile kit rolled out

Publication : The Hindu

Date : December 14, 2022

Edition: Hyderabad

100th surface-to-air missile kit rolled out

The Hindu Bureau
HYDERABAD

Kalyani Rafael Advanced Systems (KRAS) on Tuesday announced the rolling out of its 100th Medium Range Surface to Air Missile (MRSAM) mid-section kit. The kit was delivered to the Indian Air Force.

The MRSAM kit is a collaborative effort of KRAS and the Defence Research and Development Organisation (DRDO).

CMD of Bharat Forge Ltd., Baba N Kalyani expressed his intentions to



CMD of Bharat Forge Ltd, Baba N. Kalyani at the delivery of the 100th MRSAM missile kit on Tuesday. NAGARA GOPAL

make the company a “missile house” that would produce modern weapons for the defence of India and also high-quality hardware for the Indian armed forces.

es. He expressed confidence that the industry would soon surpass the target of achieving \$5 bn in defence exports by 2025.

Speakers said that Tues-

day’s development and collaborative efforts between Indian and Israeli companies affirm the commitment to indigenisation and Prime Minister Narendra Modi’s vision of Atmanirbhar Bharat.

Distinguished scientist B.H.V.S. Narayana Murthy congratulated KRAS and said that given the significant milestone, a speeding up of deliveries to the armed forces is required and expressed confidence that given the available infrastructure, that too would be achieved.

Headline: Hyd-based KRAS to provide 1000 missile kits to Indian Army

Publication : The New Indian Express

Date : December 14, 2022

Edition: Hyderabad



KRAS officials roll out the 100th MRSAM missile kit for the armed forces

Hyd-based KRAS to provide 1,000 missile kits to Indian Army

SUNNY BASKI @Hyderabad

HYDERABAD-based Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) has set a target of providing 1,000 Medium Range Surface to Air Missile (MR-SAM) to the armed forces, thereby strengthen the 'Make in India' initiative.

Kalyani Group has a wide product portfolio with expertise in design, development, engineering and manufacturing of systems and subsystems for artillery guns, armoured fighting vehicles, protected vehicles, ammunition, air defence solutions, defence electronics and small arms.

On Tuesday, KRAS rolled out the 100th MRSAM missile kit for delivery to the Indian Armed Forces. The kit is part of the MRSAM air defence missile jointly developed by Rafael Advanced Defense Systems Ltd and DRDO and manufactured in collaboration with Indian industry comprising both private and public sector players, including MSMEs.

MRSAM is a high response, quick reaction, vertically launched supersonic missile, designed to neutralise enemy aerial threats – missiles, aircraft, guided bombs, helicopters. They are used by the Army, Navy and Air Force as different variants. The delivery of the 100th MRSAM missile kit takes place close on the heels of the delivery of the first firing unit to the IAF at Air Sta-

tion Jaisalmer in 2021.

Bharat Forge Ltd CMD Baba N Kalyani said: "This delivery is not only a shining example of synergy between India and Israel and the private and public sector but also reinforces our commitment to Atma Nirbhar Bharat. Apart from the missile kits, we will extend our support in maintenance and repair operations of in-service Air Defence Missile Systems to the Armed Forces," he said.

Major General Retd Yoav Har-Even, president and CEO, Rafael, lauded the joint efforts of all stakeholders. "We have been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to Atma Nirbhar Bharat. KRAS being a joint venture is a testament to the cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group."

Rafael Advanced Defense Systems Ltd. designs, develops, manufactures and supplies a wide range of high-tech defence systems for air, land, sea, and space applications for the Israel Defense Forces. The company offers its customers a diversified array of innovative solutions at the leading edge of global technology, from underwater systems through naval, ground, and air superiority systems to space systems.

Headline: 100th Surface-to-Air missile kit rolled out	Publication : Surya
Date : December 14, 2022	Edition: Hyderabad

సాయుధ దళాల కోసం ఎంతర్ సామ్ క్షిపణి కిట్లు విడుదల చేసిన కళ్యాణి రాఫెల్ అడ్వాన్స్డ్ సిస్టమ్స్

న్యూఢిల్లీ: కళ్యాణి రాఫెల్ అడ్వాన్స్డ్ సిస్టమ్స్ ప్రైవేట్ లిమిటెడ్ భారత సాయుధ దళాలకు చెందిన చేతులూపే 100వ పేదీయల కిట్ నల్లిన ఈ ఎంబర్ క్షిపణి కిట్లు విడుదల చేసింది. ఈ కిట్ ఎంబర్ ఎంబెడెడ్ టార్గెట్ మిస్సైల్లో భాగంగా రాఫెల్ అడ్వాన్స్డ్ టార్గెట్ సిస్టమ్స్ లిమిటెడ్ చేత రిజిస్ట్రేషన్ చేయబడింది. ఎంబెడెడ్ టార్గెట్ లో ఈ క్షిపణి కిట్లు విడుదల చేయబడింది. 00 క్షిపణి కిట్లు 2021వ ఏప్రిల్ ఎంబర్ క్షిపణి కిట్లలో విడుదల చేయబడింది. 2021వ ఏప్రిల్ ఎంబర్ క్షిపణి కిట్లలో విడుదల చేయబడింది. 2021వ ఏప్రిల్ ఎంబర్ క్షిపణి కిట్లలో విడుదల చేయబడింది.

**Headline: Kalyani-Rafael rolls out MRSAM
Kit for armed forces**

Publication : Telangana Today

Date : December 14, 2022

Edition: Hyderabad

Telangana Today

Kalyani Rafael rolls out MRSAM Kit for armed forces

HYDERABAD

Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile (MRSAM) Kit for delivery to the Indian Armed Forces.

The kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defense Systems Ltd and Defence Research and DRDO and manufactured in collaboration with Indian industry comprising of both private and public sector players including the MSMEs.

Baba N Kalyani, Chairman and Managing Director of Bharat Forge Ltd stated that KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Armed Forces. ANI

Headline: Kalyani-Rafael rolls out MRSAM

Publication : Eenadu

Kit for armed forces

Date : December 14, 2022

Edition: Hyderabad



భారత సైన్యానికి 100వ క్షిపణి

అందజేసిన కళ్యాణి రాఫెల్

ఈనాడు, హైదరాబాద్: భూమి మీద నుంచి ఆకాశంలోని లక్ష్యాలను చేదించగల నూరో క్షిపణి కిట్ను భారత సైన్యానికి, భారత్ పోర్ట్ గ్రూపునకు చెందిన కళ్యాణి రాఫెల్ ఆధ్వర్యంలో సిస్టమ్స్ ప్రైవేట్ లిమిటెడ్ మంగళవారం ఇక్కడ అందజేసింది.



ఈ కిట్ను ఎంఆర్శామ్ (మీడియమ్ రేంజ్ సర్వైస్-టు-ఎయిర్ మిస్సైల్) ఎయిర్ డిఫెన్స్ మిస్సైల్ తయారీ కోసం కళ్యాణి రాఫెల్ ఆధ్వర్యంలో సిస్టమ్స్ డీఆర్డీఓ (డిఫెన్స్ రీసెర్చ్ అండ్ డెవలప్మెంట్ ఆర్గనైజేషన్) సంయుక్తంగా అభివృద్ధి చేశాయి. ఇందులో మనదేశానికి చెందిన ప్రైవేటు రంగంలోని పలు చిన్న, మధ్యస్థాయి సంస్థలు సైతం పాలుపంచుకున్నాయి. ఈ సందర్భంగా భారత్ పోర్ట్ లిమిటెడ్ గ్రూప్ చైర్మన్ బాబు ఎన్.కళ్యాణి మాట్లాడుతూ మన దేశ రక్షణ ఆవసరాలకు అనువైన అయుధ సామగ్రిని సొంతంగా అభివృద్ధి చేసి, అందించగలుగుతున్నందుకు సంతోషంగా ఉందన్నారు. మనదేశంలోని ప్రభుత్వ ప్రైవేటు రంగ సంస్థల భాగస్వామ్యంతో, ఇజ్రాయెల్ సాంకేతిక పరిజ్ఞానంతో దీనికి కార్యరూపం ఇచ్చినట్లు తెలిపారు. క్షిపణి కిట్ను సరఫరా చేయడమే కాకుండా, నిర్వహణ- మరమ్మతు బాధ్యతలను కూడా తాము నిర్వహిస్తామని వివరించారు. భారత రక్షణ దళాలకు అయుధ సామగ్రిని అందించడంలో దాదాపు 3 దశాబ్దాలుగా తాము కీలక పాత్ర పోషిస్తున్నట్లు రాఫెల్ గ్రూపు ఆధ్యక్షుడు సీఈఓ యేవ్ హర్ ఈవెన్ తెలిపారు. రాఫెల్, భారత్ పోర్ట్ గ్రూపుల సంయుక్త సంస్థ అయిన కళ్యాణి రాఫెల్ ఆధ్వర్యంలో సిస్టమ్స్ భారత్ - ఇజ్రాయెల్ దేశాల మధ్య ఉన్న సాంకేతిక, రక్షణ సహకారానికి నిదర్శనమని పేర్కొన్నారు. ఈ కార్యక్రమంలో డీఆర్డీఓ మిస్సైల్స్ అండ్ స్ట్రాటజిక్ సిస్టమ్స్ చైరెక్టర్ జనరల్ డాక్టర్ నారాయణ మూర్తి, ఇతర ఉన్నతాధికారులు పాల్గొన్నారు.

Date : 14/12/2022 EditionName : GREATER HYDERABAD PageNo :



Online

No.	Publication/Portal	Headline	Date
1	The Economic Times	Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	December 13, 2022
2	Business Standard India	Kalyani Rafael Advanced Systems rolls out 100th surface-to-air missile kit	December 13, 2022
3	CNBC TV18	Baba N Kalyani says proud to deliver 100th MRSAM missile kit for Indian Armed Forces	December 14, 2022
4	The Hindu	100th surface-to-air missile kit delivered to IAF	December 13, 2022
5	WION	100th kit of Indo-Israeli MRSAM missile rolled out for supply to Indian forces	December 14, 2022
6	The Pioneer	Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	December 13, 2022
7	The New Indian Express	Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	December 13, 2022
8	UNI	KRAS rolls out 100th MRSAM kit for delivery to Indian Armed Forces	December 13, 2022
9	Punekar News	KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS OUT MRSAM MISSILE KITS FOR THE ARMED FORCES	December 13, 2022
10	Sunshine Pune	Kalyani Rafael venture rolls out missile kits for armed forces	December 13, 2022
11	Lokmat English	Kalyani Rafael rolls out Medium Range Surface to Air Missile Kit for Indian	December 13, 2022



		<u>armed forces</u>	
12	Lakannada	<u>KRAS supplies 100th Medium Range Surface-to-Air missile kit to Indian Armed forces – Indiainfoline</u>	December 13, 2022
13	Devdiscourse	<u>Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces</u>	December 13, 2022
14	India Infoline	<u>KRAS supplies 100th Medium Range Surface-to-Air missile kit to Indian Armed forces</u>	December 13, 2022
15	NewsDrum	<u>Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces</u>	December 13, 2022
16	News Bharati	<u>Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian Armed Forces</u>	December 13, 2022
17	BestyWeb	<u>Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces – BestyWeb</u>	December 13, 2022
18	Newspatrolling	<u>KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS OUT MRSAM MISSILE KITS FOR THE ARMED FORCES</u>	December 13, 2022
19	NRI 24x7	<u>KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS OUT MRSAM MISSILE KITS FOR THE ARMED FORCES</u>	December 13, 2022
20	Business News Week	<u>Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out MRSAM Missile Kits for the Armed Forces</u>	December 13, 2022



21	Media Bulletins	<u>Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out MRSAM Missile Kits for the Armed Forces</u>	December 13, 2022
22	Content Media Solution	<u>Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out MRSAM Missile Kits for the Armed Forces</u>	December 13, 2022
23	Online Media Cafe	<u>Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out MRSAM Missile Kits for the Armed Forces</u>	December 13, 2022
24	Business News Desk	<u>Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out MRSAM Missile Kits for the Armed Forces</u>	December 13, 2022
25	Smart Business News	<u>Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out MRSAM Missile Kits for the Armed Forces</u>	December 13, 2022
26	FM Live	<u>Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out Mrsam Missile Kits For The Armed Forces</u>	December 13, 2022
27	Konexio	<u>KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS OUT MRSAM MISSILE KITS FOR THE ARMED FORCES</u>	December 13, 2022
28	Defence PK	<u>KRAS supplies 100th Medium Range Surface-to-Air missile(Barak 8) kit to Indian Armed forces</u>	November 12, 2022
29	Indian Defence Review	<u>Kalyani-Rafael Advanced Systems Pvt Ltd rolls out MRSAM Missile kits for the Armed Forces</u>	December 13, 2022
30	Defense Mirror	<u>Kalyani-Rafael Roll Out 100th Medium</u>	December 13,



		<u>Range Surface to Air Missile Kit for India</u>	2022
31	Raksha Anirveda	<u>Kalyani Rafael Advanced Systems Rolls Out MRSAM Missile Kits for the Armed Forces</u>	December 13, 2022
32	GBP Aerospace and Defence	<u>Kalyani Rafael Advanced Systems Rolls Out 100th Indian MRSAM Missile Kit</u>	December 14, 2022
33	Broadsword	<u>Kalyani-Rafael rolls out 100th medium range surface-to-air missile (MRSAM) kit</u>	December 14, 2022
34	Aeromag	<u>KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS OUT MRSAM MISSILE KITS FOR THE ARMED FORCES</u>	December 14, 2022

Headline : Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	Domain : The Economic Times
Date : December 13, 2022	Journalist:

<https://economictimes.indiatimes.com/news/defence/kalyani-rafael-advanced-systems-rolls-out-mrsam-kit-for-indian-armed-forces/articleshow/96194612.cms>

Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces. According to a release from the company, the kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defence Systems Ltd and DRDO and manufactured in collaboration with Indian industry comprising both private and public sector players including MSMEs.

Speaking on the occasion, Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd said KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces. "This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to Atma Nirbhar Bharat as envisioned by our Prime Minister Shri Narendra Modi".

He also added that "apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in service Air Defence Missile Systems to the Armed Forces," Kalyani said. Yoav Har-Even President and CEO Rafael said the Israeli firm has been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to Aatma Nirbhar Bharat.

KRAS, being a joint venture is a testament to the enhanced cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group, he added.

Headline : Kalyani Rafael Advanced Systems rolls out 100th surface-to-air missile kit

Domain : Business Standard India

Date : December 13, 2022

Journalist: Ajai Shukla

https://www.business-standard.com/article/economy-policy/indo-israeli-joint-venture-crosses-milestone-in-missile-production-122121300989_1.html

Kalyani Rafael Advanced Systems Private Limited (KRAS), on Tuesday rolled out in Hyderabad the 100th kit it has manufactured of the eponymous Medium Range Surface to Air Missile (MRSAM).

KRAS is a joint venture (JV) set up by Israeli company, Rafael, in partnership with Kalyani Strategic Systems (KSS). They hold 49 and 51 per cent stake respectively.

The Defence R&D Organisation (DRDO) has developed this lethal missile for the army, navy and air force, in close partnership with Israel Aerospace Industries (IAI).

It is the Indian military's first tri-service missile, which will protect naval warships, air force bases and army combat units from airborne attacks.

About 20-30 per cent of the MRSAM has been developed by the DRDO, including the missile's propulsion system that is based on a sophisticated dual-pulse rocket motor, its thrust vector controls, and electrical harness (wiring).

Israel Aerospace Industries (IAI) has designed and developed the other 70-80 per cent of the MRSAM, including the Elta MF-STAR radar, which is the heart of the system.

On July 11, 2019, the Indian defence ministry awarded KRAS a \$100 million contract to build the mid-sections of 1,000 missiles. These will be integrated with MRSAM components built elsewhere into combat ready missile systems by defence public sector undertaking, Bharat Dynamics Ltd (BDL).

The MRSAM is regarded as one of the world's most lethal surface-to-air missiles. The naval version of the MRSAM, which is called the LRSAM (Long-Range Surface to Air Missile), protects Indian warships from sea-skimming, anti-ship missiles. It is stored in, and fired from, sealed canisters below warship decks, in order to protect the missile from the corrosive marine environment.

The LRSAM has been operationally deployed only on three Indian Navy destroyers -- INS Kolkata, Chennai and Kochi. Each carries 32 missiles in “vertical launch unit” canisters. Now the LRSAM is being fitted on four more destroyers being built under Project 15B and seven frigates being constructed under Project 17A.

The IAF version of the MRSAM is mounted on trailers, and is fired from the open at enemy fighters coming in to attack air bases and other high-priority targets. The army version of the MRSAM is mounted on high-mobility vehicles that keep up with tank columns moving cross-country.

All three versions of the missile are identical, except for the software that controls their “self-destruct” function.

The MRSAM is expensive, with a price of Rs 6 crore per missile. But that is considered reasonable by many, given that it shoots down sophisticated fighters costing hundreds of crore; and protects warships that cost thousands of crore.

So confident is the military in the MRSAM that, in September 2016, when the army was planning to strike Pakistan-backed terrorist camps across the Line of Control to avenge the killing of 19 Indian soldiers near Uri, the MRSAM – then still under development – was moved from BDL to protect a particularly vulnerable air force base.

When Indian commandos crossed on LoC on the night of September 28, 2016, the MRSAM was ready for operational use. As it turned out, the missiles were not required.

KRAS will deliver more than 1,000 MRSAM production kits over the next 3-4 years. In case of export orders, the numbers could increase.

Speaking on the occasion, Kalyani Group chief, Baba Kalyani, said: “This delivery is not only a shining example of synergy between India and Israel and the private and public sector but also reinforces our commitment to AatmaNirbhar Bharat as envisioned by our Prime Minister Narendra Modi.”



Headline : Baba N Kalyani says proud to deliver 100th MRSAM missile kit for Indian Armed Forces

Domain : CNBCTV 18

Date : December 14, 2022

Journalist: Abhimanyu Sharma

<https://www.cnbctv18.com/business/baba-n-kalyani-says-proud-to-deliver-100th-mrsam-missile-kit-for-indian-armed-forces-15414421.htm>

Baba N Kalyani, chairman and managing director of Bharat Forge Ltd on Tuesday said Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces.

KRAS today rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces. The kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defence Systems Ltd and DRDO and manufactured in collaboration with Indian industry comprising both private and public sector players including MSMEs.

Speaking on the occasion, he said, "This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to Atma Nirbhar Bharat as envisioned by our Prime Minister Narendra Modi."

Kalyani said apart from the missile kits, KRAS will extend support in the Maintenance and Repair Operations of in-service Air Defence Missile Systems to the Armed Forces.

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Kalyani said apart from the missile kits, KRAS will extend support in the Maintenance and Repair Operations of in-service Air Defence Missile Systems to the Armed Forces.

He stated that Kalyani Rafael Advanced Systems Pvt Ltd has an order of about 1,000 mid-sections valued at about \$100 million and time will when the company will be able to build and design its own indigenous missiles of different types.

The managing director said the company already has six verticals in defence and this missile is developed in Hyderabad. In Pune, the company make artillery guns, ammunition, small arms, and armoured vehicles. So these are some of the products that the company currently actually produce.

Kalyani Strategic Systems, which operates this facility in a joint venture with Israel-based Rafael Advanced Defense Systems, said this is a big step in adding indigenous weapons systems to India's arsenal.

The mid-section will form part of the BARAK-8 missile, a long-range and medium-range surface-to-air missile system designed for both land-based and maritime installation. This is not the Israeli firm's first rodeo in India, and the company expects more orders as it adds to its Make in India capabilities.

Headline : 100th surface-to-air missile kit delivered to IAF	Domain : The Hindu
Date : December 13, 2022	Journalist: The Hindu Bureau

<https://www.thehindu.com/news/national/telangana/100th-surface-to-air-missile-kit-delivered-to-iaf/article66259131.ece>

Kalyani Rafael Advanced Systems (KRAS) on Tuesday announced the rolling out of its 100th Medium Range Surface to Air Missile (MRSAM) mid-section kit. The kit was delivered to the Indian Air Force.

The MRSAM kit is a collaborative effort of KRAS and the Defence Research and Development Organisation (DRDO).

CMD of Bharat Forge Ltd., Baba N Kalyani expressed his intentions to make the company a “missile house” that would produce modern weapons for the defence of India and also high-quality hardware for the Indian armed forces. He expressed confidence that the industry would soon surpass the target of achieving \$5 bn in defence exports by 2025.

Speakers said that Tuesday’s development and the collaborative efforts between Indian and Israeli companies affirm the commitment to indigenisation and Prime Minister Narendra Modi’s vision of Atmanirbhar Bharat.

Distinguished scientist B.H.V.S. Narayana Murthy congratulated KRAS for delivering the 100th mid-section. He said that given the significant milestone, a speeding up of deliveries to the armed forces is required and expressed confidence that given the available infrastructure, that too would be achieved.

Director of DRDO’s Research Centre Imarat U. Raja Babu congratulated both companies on the roll-out and also requested KRAS to accelerate deliveries.

Speaking to the media on the sidelines of the event, Major General (retired) Yoav Har-Even said Rafael has supplied different kinds of missiles to the Indian armed forces. “We understood the vision and the mission of Make in India. This is why we established this joint venture with Kalyani Group almost six years ago and this is parallel with what we are doing with PSUs. Our mission at the end of the day is to be able to produce, supply and support all relevant systems that Rafael has,” he said.

He said that the company has invested several million dollars and is willing to invest more according to the investment opportunities.



Headline : 100th kit of Indo-Israeli MRSAM missile rolled out for supply to Indian forces	Domain : WION
Date : December 14, 2022	Journalist: Sidharth MP

<https://www.wionews.com/india-news/100th-kit-of-indo-israeli-mrsam-missile-rolled-out-for-supply-to-indian-forces-542796>

Indo-Israeli joint venture Kalyani Rafael Advanced Systems(KRAS) rolled out the 100th kit of the made-in-India Medium Range Surface to Air Missile(MRSAM), for delivery to the Indian Armed Forces. Operated by the Indian Army and the Air Force, the MRSAM missile can take down multiple aerial targets such as jets, drones, helicopters, and incoming missiles, within a 70km range. The missile kit or mid-section refers to the frontal end of the missile, which comprises the seeker and crucial electronics.

The MRSAM is an advanced network-centric combat Air Defence System developed jointly by Defence Research and Development Organization (DRDO) and Israel Aerospace Industries (IAI) in collaboration with the Indian industry comprising private and public sectors including MSMEs. In 2019, KRAS received an order for supplying mid-sections of 1000MRSAMs, the deal was worth \$100mn.

Dr Narayana Murthy, Director General Missiles & Strategic Systems handed over the 100th MRSAM Missile kit to senior officers of the Indian Armed Forces, in the presence of Baba N Kalyani, CMD, Bharat Forge Ltd and Mj Gen(retd) Yoav Har-Even, President and CEO Rafael Advanced Defense Systems Ltd, Israel. The ceremony took place at the KRAS facility in the Indian city of Hyderabad.

"This delivery is not only a shining example of the synergy between India and Israel and the private and public sector but also reinforces our commitment to AtmaNirbhar Bharat(Self-reliant India) as envisioned by Prime Minister Narendra Modi," said Baba Kalyani, Chairman & MD, Bharat Forge Ltd. He added that apart from the missile kits, their firm would also extend support in the Maintenance and Repair operations of Air Defence Missile Systems to the Armed Forces.

Headline : Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	Domain : The Pioneer
Date : December 13, 2022	Journalist:

<https://pynr.in/kalyani-rafael-advanced-systems-rolls-out-mrsam-kit-for-indian-armed-forces/>

Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces.

According to a release from the company, the kit is part of the MRSAM air defence missile jointly developed by Rafael Advanced Defence Systems Ltd and DRDO and manufactured in collaboration with the Indian industry comprising both private and public sector players including MSMEs.

Speaking on the occasion, Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd said KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces.

“This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to Atma Nirbhar Bharat as envisioned by our Prime Minister Shri Narendra Modi,” he said.

Kalyani also added that “apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in-service Air Defence Missile Systems to the Armed Forces.”

Yoav Har-Even President and CEO Rafael said the Israeli firm has been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to Aatma Nirbhar Bharat.

KRAS, being a joint venture is a testament to the enhanced cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group, he added.

Headline : Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	Domain : The New Indian Express
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Date : December 13, 2022	Journalist:
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<https://www.newindianexpress.com/business/2022/dec/13/kalyani-rafael-advanced-systems-rolls-out-mrsam-kit-for-indian-armed-forces-2527803.amp>

HYDERABAD: Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces.

According to a release from the company, the kit is part of the MRSAM air defence missile jointly developed by Rafael Advanced Defence Systems Ltd and DRDO and manufactured in collaboration with the Indian industry comprising both private and public sector players including MSMEs.

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KRAS, being a joint venture is a testament to the enhanced cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group, he added.

Headline : KRAS rolls out 100th MRSAM kit for delivery to Indian Armed Forces	Domain : UNI India
Date : December 13, 2022	Journalist:

<http://www.uniindia.com/~/kras-rolls-out-100th-mrsam-kit-for-delivery-to-indian-armed-forces/States/news/2878261.html>

Hyderabad, Dec 13 (UNI) Kalyani Rafael Advanced Systems Private Limited (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile (MRSAM) Kit for delivery to the Indian Armed Forces.

The kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defense Systems Limited & DRDO and manufactured in collaboration with Indian industry comprising both private and public sector players including MSMEs.

Speaking on the occasion, Dr BHVS Narayana Murthy, Distinguished and Director General missiles & Strategic System, who formally handed over the 100th MRSAM kit to senior officers of the Indian Armed Forces at KRAS facility in Hardware Park in Maheshwaram village in Telangana, congratulated KRAS for achieving the significant milestone.

He said, the first MRSAM kit for the Navy has been successfully completed. Then we have taken up Air Force, subsequently Army. Delivery of the remaining 900 kits is a bigger challenge. We have to speed up the process and hope to achieve this in due course of time, Dr Murthy said.

As part of Make in India and Atma Nirbhar Bharat, the Director General Missiles requested the authorities to increase the Indian content in MRSAM.

He also assured to extend required support by DRDO.

Speaking on the occasion, Mr Baba N Kalyani, Chairman and Managing Director Bharat Forge Limited said "We want to make KRAS a true missile house by producing modern weapons for our country in touch with DRDO in terms of technology and among others in this area.

Major General (Retd) Yoav Har-Even President & CEO Rafael lauded the joint efforts of all stakeholders in this program.

He stated that "We have been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to Atma Nirbhar Bharat.

Yoav also stated that KRAS being a joint venture is a testament to the enhanced cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group", he added.

The event was graced by other senior DRDO and Military officials.

Headline : KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS OUT MRSAM MISSILE KITS FOR THE ARMED FORCES	Domain : Punekar News
Date : December 13, 2022	Journalist:

<https://www.punekarnews.in/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/>

Hyderabad, 13 December 2022. Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) today rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces. The kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defense Systems Ltd & DRDO and manufactured in collaboration with Indian industry comprising of both private and public sector players including MSMEs. The delivery of the 100th MRSAM Missile Kit takes place close on the heels of the delivery of the first firing unit to the IAF at Air Station Jaisalmer on 09 Sep 2021.

Dr BHVS Narayana Murthy, Distinguished Scientist and Director General Missiles & Strategic Systems handed over the 100th MRSAM Missile Kit to senior officers of the Indian Armed Forces in the presence of Mr Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd and Maj Gen (Retd.) Yoav Har-Even, President & CEO Rafael Advanced Defense Systems Ltd, Israel.

Speaking on the momentous occasion, Mr Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd stated that “KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces. This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to AatmaNirbhar Bharat as envisioned by our Prime Minister Shri Narendra Modi”. He also added that “apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in service Air Defence Missile Systems to the Armed Forces”.

During his address Major General Retd Yoav Har-Even President & CEO Rafael lauded the joint efforts of all stakeholders in this program. He stated that “We have been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to AatmaNirbhar Bharat. He also stated that KRAS being a joint venture is a testament to the enhance cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group.

The event was graced by other senior DRDO and military officials.

Headline : Kalyani Rafael venture rolls out missile kits for armed forces	Domain : Sunshine Pune
Date : December 13, 2022	Journalist: Dileep Athavale

<http://www.sunshinepune.in/kalyani-rafael-venture-rolls-out-missile-kits-for-armed-forces/>

Kalyani Rafael Advanced Systems Pvt Ltd., a defence technology venture of Pune based Bharat Forge and Rafael of France, today rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces.

The kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defense Systems Ltd & DRDO and manufactured in collaboration with Indian industry comprising of both private and public sector players including MSMEs. The delivery of the 100th MRSAM Missile Kit takes place close on the heels of the delivery of the first firing unit to the IAF at Air Station Jaisalmer on 09 Sep 2021.

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Headline : Kalyani Rafael rolls out Medium Range Surface to Air Missile Kit for Indian armed forces	Domain : Lokmat English
Date : December 13, 2022	Journalist:

<https://www.lokmatimes.com/national/kalyani-rafael-rolls-out-medium-range-surface-to-air-missile-kit-for-indian-armed-forces/>

Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile .

Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile (MRSAM) Kit for delivery to the Indian Armed Forces.

The kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defense Systems Ltd and Defence Research and Development Organisation (DRDO) and manufactured in collaboration with Indian industry comprising of both private and public sector players including the Micro, Small and Medium Enterprises (MSMEs). The event was graced by many senior DRDO and military officials.

Speaking on the momentous occasion, Baba N Kalyani, Chairman and Managing Director of Bharat Forge Ltd stated that KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces.

"This delivery is not only a shining example of synergy between India and Israel and the private and public sector but also reinforces our commitment to Aatmanirbhar Bharat as envisioned by our Prime Minister Narendra Modi".

He also added that "apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in-service Air Defence Missile Systems to the Armed Forces".

Headline : KRAS supplies 100th Medium Range Surface-to-Air missile kit to Indian Armed forces – Indiainfoline	Domain : Lakannada
Date : December 13, 2022	Journalist:

<https://lakannada.com/kras-supplies-100th-medium-range-surface-to-air-missile-kit-to-indian-armed-forces-indiainfoline/>

The kit, according to a press release from the company, is a component of the MRSAM Air Defence Missile, which Rafael Advanced Defence Systems Ltd. and the DRDO jointly developed.

The 100th Medium Range Surface to Air Missile Kit was unveiled by Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday for delivery to the Indian Armed Forces.

The kit, according to a press release from the company, is a component of the MRSAM Air Defence Missile, which Rafael Advanced Defence Systems Ltd. and the DRDO jointly developed. The kit was produced in cooperation with Indian industry, which includes players from the public and private sectors as well as MSMEs.

Baba N Kalyani, Chairman and Managing Director of Bharat Forge Ltd., spoke at the event and said KRAS was pleased to speed up the delivery of the 100th MRSAM Missile Kit to the Indian Armed Forces. “This delivery is not only a brilliant illustration of cooperation between India and Israel, as well as the commercial and public sectors, but it also strengthens our commitment to Atma Nirbhar Bharat.”

As a joint company that combines the engineering prowess of the Kalyani Group with Rafael technology, KRAS is a tribute to the improved cooperation between Israel and India in the strategic defence industry, he continued.

Headline : Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	Domain : Devdiscourse
Date : December 13, 2022	Journalist:

<https://www.devdiscourse.com/article/law-order/2284011-kalyani-rafael-advanced-systems-rolls-out-mrsam-kit-for-indian-armed-forces>

Hyderabad, Dec. 13 (PTI): Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces.

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Yoav Har-Even President and CEO Rafael said the Israeli firm has been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to Aatma Nirbhar Bharat.

KRAS, being a joint venture is a testament to the enhanced cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group, he added.

Headline : KRAS supplies 100th Medium Range Surface-to-Air missile kit to Indian Armed forces	Domain : India Infoline
Date : December 13, 2022	Journalist:

https://www.indiainfoline.com/article/news-top-story/kras-supplies-100th-medium-range-surface-to-air-missile-kit-to-indian-armed-forces-122121300064_1.html

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As a joint company that combines the engineering prowess of the Kalyani Group with Rafael technology, KRAS is a tribute to the improved cooperation between Israel and India in the strategic defence industry, he continued.

Headline : Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces	Domain : NewsDrum
Date : December 13, 2022	Journalist: NewsDrum Desk

<https://newsdrum.in/business/kalyani-rafael-advanced-systems-rolls-out-mrsam-kit-for-indian-armed-forces>

Hyderabad, Dec. 13 (PTI): Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces.

According to a release from the company, the kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defence Systems Ltd and DRDO and manufactured in collaboration with Indian industry comprising both private and public sector players including MSMEs.

Speaking on the occasion, Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd said KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces.

“This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to Atma Nirbhar Bharat as envisioned by our Prime Minister Shri Narendra Modi”.

He also added that “apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in service Air Defence Missile Systems to the Armed Forces,” Kalyani said.

Yoav Har-Even President and CEO Rafael said the Israeli firm has been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to Aatma Nirbhar Bharat.

KRAS, being a joint venture is a testament to the enhanced cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group, he added. PTI GDK ROH ROH

Headline : Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian Armed Forces	Domain : News Bharati
Date : December 13, 2022	Journalist:

<https://www.news Bharati.com/Encyc/2022/12/13/Kalyani-Rafael-Advanced-Systems-rolls-out-MRSAM-kit-for-Indian-Armed-Forces.html>

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“This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to Atma Nirbhar Bharat as envisioned by our Prime Minister Shri Narendra Modi”. He also added that “apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in service Air Defence Missile Systems to the Armed Forces,” Kalyani said.

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KRAS, being a joint venture is a testament to the enhanced cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group, he added.

Headline : Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces – BestyWeb	Domain : BestyWeb
Date : December 13, 2022	Journalist:

<https://bestyweb.in/kalyani-rafael-advanced-systems-rolls-out-mrsam-kit-for-indian-armed-forces-bestyweb/>

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Headline : KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS OUT MRSAM MISSILE KITS FOR THE ARMED FORCES	Domain : Newspatrolling
Date : December 13, 2022	Journalist: Mahender

<https://newspatrolling.com/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/>

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Dr BHVS Narayana Murthy, Distinguished Scientist and Director General Missiles & Strategic Systems handed over the 100th MRSAM Missile Kit to senior officers of the Indian Armed Forces in the presence of Mr Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd and Maj Gen (Retd.) Yoav Har-Even, President & CEO Rafael Advanced Defense Systems Ltd, Israel.

Speaking on the momentous occasion, Mr Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd stated that “KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces. This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to AatmaNirbhar Bharat as envisioned by our Prime Minister Shri Narendra Modi”. He also added that “apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in service Air Defence Missile Systems to the Armed Forces”.

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The event was graced by other senior DRDO and military officials.

Headline : KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS OUT MRSAM MISSILE KITS FOR THE ARMED FORCES

Domain : NRI News 24x7

Date : December 13, 2022

Journalist:

<https://nrinews24x7.com/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/>

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Headline : Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out MRSAM Missile Kits for the Armed Forces	Domain : Business News Week
Date : December 13, 2022	Journalist:

<https://businessnewsweek.in/business/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/>

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Date : December 13, 2022	Journalist:

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Headline : Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out MRSAM Missile Kits for the Armed Forces	Domain : Content Media Solution
Date : December 13, 2022	Journalist:

<https://contentmediasolution.com/business/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/>

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Date : December 13, 2022	Journalist: Neel Achary

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Date : December 13, 2022	Journalist:

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Date : December 13, 2022	Journalist:

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Headline : Kalyani Rafael Advanced Systems Pvt Ltd Rolls Out Mrsam Missile Kits For The Armed Forces	Domain : FM Live
Date : December 13, 2022	Journalist:

<https://www.fmlive.in/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/>

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Domain : Konexio

Date : December 13, 2022

Journalist:

<https://konexionetwork.com/NewsDetails.aspx?newsid=37adee59-18b0-44b7-afd8-87a6723cac68>

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Headline : KRAS supplies 100th Medium Range Surface-to-Air missile(Barak 8) kit to Indian Armed forces	Domain : Pakistan Defence
Date : November 12, 2022	Journalist:

<https://defence.pk/pdf/threads/kras-supplies-100th-medium-range-surface-to-air-missile-barak-8-kit-to-indian-armed-forces.756457/>

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Headline : Kalyani-Rafael Advanced Systems Pvt Ltd rolls out MRSAM Missile kits for the Armed Forces	Domain : Indian Defence Review
Date : December 13, 2022	Journalist:

<http://www.indiandefencereview.com/news/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/>

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Speaking on the momentous occasion, Mr Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd stated that “KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces. This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to AatmaNirbhar Bharat as envisioned by our Prime Minister Shri Narendra Modi”. He also added that “apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in service Air Defence Missile Systems to the Armed Forces”.

During his address Major General RetdYoavHar-Even President & CEO Rafael lauded the joint efforts of all stakeholders in this program. He stated that “We have been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to AatmaNirbhar Bharat. He also stated that KRAS being a joint venture is a testament to the enhance cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group.

The event was graced by other senior DRDO and military officials.



Headline : Kalyani-Rafael Roll Out 100th Medium Range Surface to Air Missile Kit for India	Domain : Defense Mirror
Date : December 13, 2022	Journalist:

<https://www.defensemirror.com/news/33264/>

[Kalyani_Rafael_Roll_Out_100th_Medium_Range_Surface_to_Air_Missile_Kit_for_India#.Y5h7MHZBzIUhttps://www.indiastrategic.in/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/](https://www.indiastrategic.in/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/)

Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) rolled out the 100th Medium Range Surface to Air Missile Kit for the Indian Armed Forces on Tuesday.

The kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defense Systems Ltd & DRDO and manufactured in collaboration with Indian industry comprising of both private and public sector players including MSMEs. The delivery of the 100th MRSAM Missile Kit takes place close on the heels of the delivery of the first firing unit to the IAF at Air Station Jaisalmer on September 9.

Headline : Kalyani Rafael Advanced Systems Rolls Out MRSAM Missile Kits for the Armed Forces	Domain : Raksha Anirveda
Date : December 13, 2022	Journalist: Admin

<https://raksha-anirveda.com/kalyani-rafael-advanced-systems-rolls-out-mrsam-missile-kits-for-the-armed-forces/>

Hyderabad: Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) December 13 rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces. The kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defense Systems Ltd and DRDO and manufactured in collaboration with Indian industry comprising of both private and public sector players including MSMEs. The delivery of the 100th MRSAM Missile Kit takes place close on the heels of the delivery of the first firing unit to the IAF at Air Station Jaisalmer on September 9, 2021.

Dr BHVS Narayana Murthy, Distinguished Scientist and Director General Missiles & Strategic Systems, DRDO handed over the 100th MRSAM Missile Kit to senior officers of the Indian Armed Forces in the presence of Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd and Maj Gen (Retd.) Yoav Har-Even, President & CEO Rafael Advanced Defense Systems Ltd, Israel.

Speaking on the momentous occasion, Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd stated that “KRAS is proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces. This delivery is not only a shining example of synergy between India & Israel and the private and public sector but also reinforces our commitment to Atmanirbhar Bharat as envisioned by our Prime Minister Shri Narendra Modi”. He also added that “apart from the missile kits, we will extend our support in Maintenance and Repair Operations of in service Air Defence Missile Systems to the Armed Forces”.

During his address Major General (Retd.) Yoav Har-Even President & CEO Rafael lauded the joint efforts of all stakeholders in this program. He stated that “We have been a reliable partner to the Indian Armed Forces for almost three decades and these missile kits are a testimony of our commitment to Atmanirbhar Bharat.” He also stated that KRAS being a joint venture is a testament to the enhance cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group.

The event was graced by other senior DRDO and military officials.

Headline : Kalyani Rafael Advanced Systems Rolls Out 100th Indian MRSAM Missile Kit	Domain : GBP Aerospace and Defence
Date : December 13, 2022	Journalist:

<https://gbp.com.sg/stories/kalyani-rafael-advanced-systems-rolls-out-100th-indian-mrsam-missile-kit/>

Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) has rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces.

The missile kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defence Systems Ltd and India's Defence Research & Development Organisation (DRDO) and manufactured in collaboration with Indian industry comprising of both private and public sector players including MSMEs.

Baba N Kalyani Chairman, and Managing Director, Bharat Forge Ltd said KRAS was proud to accelerate the delivery of the 100th MRSAM Missile Kit for the Indian Armed Forces.

He also added that KRAS will extend support in Maintenance and Repair Operations of in service Air Defence missile systems to the Indian Armed Forces.

The delivery of the 100th MRSAM missile kit follows the delivery of the first firing unit to the IAF at Air Station Jaisalmer in September 2021.

Major General Retd Yoav Har-Even President & CEO Rafael said Rafael was a reliable partner to the Indian Armed Forces for almost three decades and these missile kits were a testimony of the company's commitment to AatmaNirbhar Bharat.

He also stated that KRAS being a joint venture is a testament to the enhance cooperation between Israel and India in the strategic defence sector, as it leverages the technology of Rafael with the engineering strength of the Kalyani Group.

Headline : Kalyani-Rafael rolls out 100th medium range surface-to-air missile (MRSAM) kit	Domain : Broadsword
Date : December 13, 2022	Journalist: Ajai Shukla

<https://www.ajaiShukla.com/2022/12/kalyani-rafael-rolls-out-100th-medium.html>

Kalyani Rafael Advanced Systems Private Limited (KRAS), on Tuesday rolled out in Hyderabad the 100th kit it has manufactured of the eponymous Medium Range Surface to Air Missile (MRSAM).

KRAS is a joint venture (JV) set up by Israeli company, Rafael, in partnership with Kalyani Strategic Systems (KSS). They hold 49 and 51 per cent stake respectively.

The Defence R&D Organisation (DRDO) has developed this lethal missile for the army, navy and air force, in close partnership with Israel Aerospace Industries (IAI).

It is the Indian military's first tri-service missile, which will protect naval warships, air force bases and army combat units from airborne attacks.

About 20-30 per cent of the MRSAM has been developed by the DRDO, including the missile's propulsion system that is based on a sophisticated dual-pulse rocket motor, its thrust vector controls, and electrical harness (wiring).

Israel Aerospace Industries (IAI) has designed and developed the other 70-80 per cent of the MRSAM, including the Elta MF-STAR radar, which is the heart of the system.

On July 11, 2019, the Indian defence ministry awarded KRAS a \$100 million contract to build the mid-sections of 1,000 missiles. These will be integrated with MRSAM components built elsewhere into combat ready missile systems by defence public sector undertaking, Bharat Dynamics Ltd (BDL).

The MRSAM is regarded as one of the world's most lethal surface-to-air missiles. The naval version of the MRSAM, which is called the LRSAM (Long-Range Surface to Air Missile), protects Indian warships from sea-skimming, anti-ship missiles. It is stored in, and fired from, sealed canisters below warship decks, in order to protect the missile from the corrosive marine environment.

The LRSAM has been operationally deployed only on three Indian Navy destroyers -- INS Kolkata, Chennai and Kochi. Each carries 32 missiles in “vertical launch unit” canisters. Now the LRSAM is being fitted on four more destroyers being built under Project 15B and seven frigates being constructed under Project 17A.

The IAF version of the MRSAM is mounted on trailers, and is fired from the open at enemy fighters coming in to attack air bases and other high-priority targets. The army version of the MRSAM is mounted on high-mobility vehicles that keep up with tank columns moving cross-country.

All three versions of the missile are identical, except for the software that controls their “self-destruct” function.

The MRSAM is expensive, with a price of Rs 6 crore per missile. But that is considered reasonable by many, given that it shoots down sophisticated fighters costing hundreds of crore; and protects warships that cost thousands of crore.

So confident is the military in the MRSAM that, in September 2016, when the army was planning to strike Pakistan-backed terrorist camps across the Line of Control to avenge the killing of 19 Indian soldiers near Uri, the MRSAM – then still under development – was moved from BDL to protect a particularly vulnerable air force base.

When Indian commandos crossed on LoC on the night of September 28, 2016, the MRSAM was ready for operational use. As it turned out, the missiles were not required.

KRAS will deliver more than 1,000 MRSAM production kits over the next 3-4 years. In case of export orders, the numbers could increase.

Speaking on the occasion, Kalyani Group chief, Baba Kalyani, said: “This delivery is not only a shining example of synergy between India and Israel and the private and public sector but also reinforces our commitment to AatmaNirbhar Bharat as envisioned by our Prime Minister Narendra Modi.”

Headline : KALYANI RAFAEL ADVANCED SYSTEMS PVT LTD ROLLS OUT MRSAM MISSILE KITS FOR THE ARMED FORCES

Domain : Aeromag

Date : December 14, 2022

Journalist:

<https://www.aeromagonline.com/2022/12/14/kalyani-rafael-advanced-systems-pvt-ltd-rolls-out-mrsam-missile-kits-for-the-armed-forces/>

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Social Media

Handle : The New Indian Express	Source : Twitter
Date : December 13, 2022	Link

 **The New Indian Express** 
@NewIndianXpress

Kalyani Rafael Advanced Systems Pvt Ltd (KRAS) on Tuesday rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces.



[newindianexpress.com](https://www.newindianexpress.com)
Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces
The kit is part of the MRSAM air defence missile jointly developed by Rafael Advanced Defence Systems Ltd and DRDO.

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Handle : The Pioneer	Source : Twitter
Date : December 13, 2022	Link

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Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces

#AirMissile #AtmaNirbharBharat #DRDO
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Handle : Indian Defence Review	Source : Twitter
Date : December 13, 2022	Link



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Kalyani-Rafael Advanced Systems Pvt Ltd rolls out MRSAM Missile kits for the Armed Forces - Indian Defence Review:



indiandefencereview.com

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Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces All [#Defence](#) [#news](#) and [#updates](#): bit.ly/2ukNmEL



economictimes.indiatimes.com
Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces
According to a release from the company, the kit is part of the MRSAM Air Defence Missile jointly developed by Rafael Advanced Defence Systems Ltd an...

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#MRSAM: Kalyani-Rafael Roll Out 100th Medium
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defensemirror.com/news/33264/Kal...



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Kalyani Rafael Advanced Systems Pvt Ltd ([#KRAS](#)) today rolled out the 100th MRSAM Kit for delivery to the Indian Armed Forces. The kit is part of the MRSAM AD Missile jointly developed by [@RAFAELdefense](#) and DRDO n MFGd in collaboration with Indian industry



From [Sidharth.M.P](#) ✓

3:32 PM - Dec 13, 2022

Handle : Vayu Aerospace Review	Source : Twitter
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Vayu Aerospace Review
@ReviewVayu



BIG NEWS !!

Kalyani Rafael Advanced Systems KRAS today rolled out the 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces. This is part of the MRSAM missile jointly developed by Rafael & DRDO + collab with Indian private/public sector players

1/2



3:18 PM · Dec 13, 2022

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Kalyani Rafael Advanced Systems rolls out MRSAM kit for Indian armed forces



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Handle : Shubhangi Palve (ET Prime)	Source : Twitter
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 **shubhangi palve** ✓
@shubhangipalve

Kalyani Rafael advanced System Pvt Ltd rolled out 100th Medium Range Surface to Air Missile kit for delivery to the Indian army and navy.

[#Hyderabad](#) [#KRAS](#)



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 **Sidharth.M.P** @sdhrthmp
100th mid-section (brain, eyes) of Indo-Israel Medium Range Surface to Air Missile (MRSAM) being rolled out at KRAS #Hyderabad #india
Developed by @drdo & @RAFAELdefense ,it is made by @BharatForgeLtd (kalyani rafael advanced systems) & Bharat Dynamics Ltd
#tech #Defence



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 **shinewshyd**
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...

Hyd based Kalyani Rafael Advanced System rolled out 100th Medium Range Surface to Air Missile Kit for delivery to the Indian Armed Forces. The kit is part of MRSAM Air Defence Missile jointly developed by Rafael Advanced Defense Systems Ltd & DRDO.



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