

BHARAT FORGE



KALYANI

Bharat Forge, HAL ink pact for production of aerospace grade steel alloys

MEDIA DOSSIER

February 16, 2023

Wire

Headline: Bharat Forge, HAL ink pact for production of aerospace grade steel alloys	Publication : PTI
Date : February 16, 2023	

State-owned HAL and Bharat Forge Limited have signed an agreement for development and production of aerospace grade steel alloys.

The Memorandum of Understanding (MoU) was signed at the ongoing Aero India show in Bengaluru on Thursday, the two entities said in a joint statement.

"Hindustan Aeronautics Limited (HAL), Foundry & Forge (F&F) Division, Saarloha Advanced Materials Pvt Ltd (Saarloha) and Bharat Forge Limited (BFL), signed an MoU for collaboration in development and production of aerospace grade steel alloys," it said.

"Manufacturing of specialty steel would play a significant role in realising the success of national aerospace & defense programmes under 'Atmanirbhar Bharat' initiative," R K Goyal, Director at Saarloha, said.

There are very limited approved/qualified domestic suppliers for various types of aerospace grade steel alloys used in aircraft applications. Due to this, such alloys are getting imported, creating dependency on foreign steel manufacturers, Guru Biswal, CEO - Aerospace Division of Bharat Forge, said.

According to M S Venkatesh, Executive Director - F&F at HAL, the development of aerospace grade raw materials in the country will help HAL in maintaining its commitment to armed forces and will also reduce nation's dependency on foreign OEM's (original equipment manufacturers) with respect to raw materials.

Saarloha and Bharat Forge Limited are part of Kalyani Group.

Print Coverage

No.	Publication/Portal	Headline	Date
1	The Financial Express	Bharat Forge, HAL ink pact for grade steel alloys	17 February 2023
2	Business Standard	Bharat Forge, HAL ink pact to make aerospace grade steel alloys	17 February 2023



Headline: Bharat Forge, HAL ink pact for grade steel alloys

Publication : The Financial Express

Date : February 17, 2023

Edition: All

Bharat Forge, HAL ink pact for grade steel alloys

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Headline: Bharat Forge, HAL ink pact to make aerospace grade steel alloys

Publication : Business Standard

Date : February 17, 2023

Edition: Ahmedabad, Bangalore, Chandigarh, Mumbai

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Online

No.	Publication/Portal	Headline	Date
1	The Economic Times	Bharat Forge, HAL ink pact for production of aerospace grade steel alloys	February 16, 2023
2	Mint	HAL, Saarloha, Bharat Forge ink pact to make aerospace grade steel alloys	February 17, 2023
3	Money Control	HAL, Bharat Forge, Saarloha ink MoU for producing aerospace grade steel alloys	February 16, 2023
4	The Times of India	Bharat Forge, HAL ink pact for production of aerospace grade steel alloys	February 16, 2023
5	Raksha Anirveda	HAL, Saarloha & Bharat Forge, Sign MoU for Collaboration in Development and Production of Aerospace Grade Steel Alloys	February 17, 2023
6	India Strategic	Hindustan Aeronautics Limited (HAL), Foundry & Forge Division, Saarloha Advanced Materials Pvt Ltd (Saarloha) & Bharat Forge Limited (BFL), sign MOU	February 17, 2023
7	Defense Mirror	HAL, Saarloha & Bharat Forge to Develop Aerospace Grade Steel Alloys	February 17, 2023
8	News Drum	Bharat Forge, HAL ink pact for production of aerospace grade steel alloys	February 16, 2023
9	Projects Today	Bharat Forge, HAL signed MoU for production of aerospace-grade steel alloys	February 17, 2023
10	LatestLY	Latest News Bharat Forge, HAL Ink Pact for Production of Aerospace Grade Steel Alloys	February 16, 2023
11	Equity Bulls	F&F HAL, Saarloha & Bharat Forge sign MoU at Aero India	February 17, 2023
12	Market Screener	Hindustan Aeronautics Limited, Foundry & Forge Division, Saarloha Advanced Materials Pvt Ltd & Bharat Forge Limited, Sign Mou for Collaboration in Development and Production of Aerospace Grade Steel Alloys	February 21, 2023



13	Projects Monitor	Bharat Forge, HAL, Saarloha enters MoU for aerospace grade steel alloys	February 20, 2023
14	Ground News	Bharat Forge, HAL ink pact for production of aerospace grade steel alloys	February 16, 2023
15	Tfipost	Indian aerospace gets wings of steel	February 18, 2023
16	Share Manthan	एयरोस्पेस ग्रेड स्टील निर्माण के लिए भारत फोर्ज और एचएएल ले मिलाया हाथ	February 17, 2023



Headline : Bharat Forge, HAL ink pact for production of aerospace grade steel alloys

Domain : The Economic Times

Date : February 16, 2023

Journalist:

<https://economictimes.indiatimes.com/news/defence/bharat-forge-hal-ink-pact-for-production-of-aerospace-grade-steel-alloys/articleshow/97988284.cms?from=mdr>

There are very limited approved/qualified domestic suppliers for various types of aerospace grade steel alloys used in aircraft applications. Due to this, such alloys are getting imported, creating dependency on foreign steel manufacturers, Guru Biswal, CEO - Aerospace Division of Bharat Forge, said.

State-owned HAL and Bharat Forge Limited have signed an agreement for development and production of aerospace grade steel alloys. The Memorandum of Understanding (MoU) was signed at the ongoing Aero India show in Bengaluru on Thursday, the two entities said in a joint statement.

"Hindustan Aeronautics Limited (HAL), Foundry & Forge (F&F) Division, Saarloha Advanced Materials Pvt Ltd (Saarloha) and Bharat Forge Limited (BFL), signed an MoU for collaboration in development and production of aerospace grade steel alloys," it said.

"Manufacturing of specialty steel would play a significant role in realising the success of national aerospace & defense programmes under 'Atmanirbhar Bharat' initiative," R K Goyal, Director at Saarloha, said.

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According to M S Venkatesh, Executive Director - F&F at HAL, the development of aerospace grade raw materials in the country will help HAL in maintaining its commitment to armed forces and will also reduce nation's dependency on foreign OEM's (original equipment manufacturers) with respect to raw materials.

Saarloha and Bharat Forge Limited are part of Kalyani Group.

Headline : HAL, Saarloha, Bharat Forge ink pact to make aerospace grade steel alloys

Domain : Mint

Date : February 17, 2023

Journalist: Saurav Anand

<https://www.livemint.com/news/india/hal-saarloha-bharat-forge-ink-pact-to-make-aerospace-grade-steel-alloys-11676634426238.html>

State-owned aerospace firm Hindustan Aeronautics Ltd (HAL), critical components maker Bharat Forge and specialty steel producer Saarloha Advanced Materials have signed a memorandum of understanding (MoU) for the production and development of aerospace grade steel alloys

The MoU, signed at the sidelines of the ongoing Aero India event in Bengaluru, also accentuates development, certification and prove out and application of new material for use in production of aircraft, engines, and accessories, as per a joint press release.

The MoU was signed by M S Venkatesh, executive director of HAL's foundry & forge division; Guru Biswal, chief executive officer of Bharat Forge's aerospace division; and R K Goyal, director, Saarloha.

"The development of Aerospace grade raw materials in the country will help HAL in maintaining its commitment to Armed forces and will also reduce nation's dependency on foreign OEM's (original equipment manufacturers) with respect to raw materials. A step towards AtmaNirbhar Bharat, this MoU will open many other avenues for not only HAL & Saarloha, but many other companies which may be benefitted due to development of Aerospace grade steel bars in country," said Venkatesh.

"Aerospace grade steel alloys production & component qualification process contain stringent testing parameters which also includes long tests on actual operations. This collaboration would be a unique opportunity to speed up the qualification processes. Manufacturing of specialty steel would play a significant role in realizing the success of national aerospace & defense programs under 'Atmanirbhar Bharat' initiative," Goyal, director of Saarloha said.

Developing and qualifying aero grade alloys shall benefit the aerospace manufacturing eco system in the country and make them more competitive globally, said Biswal.

"There are very few equivalent approved/qualified domestic suppliers for various types of Aerospace grade steel alloys used in Aircraft applications. Due to this such alloys are getting imported which creates dependency on foreign steel, manufactures. Hence, accelerated efforts are needed to develop and manufacture such steel alloys in India through collaboration," the release noted.

The MoU comes at a time when the usage of specialty alloys in aerospace is expected to increase multifold, especially in fighter aircraft and helicopters, it pointed out.

"This indigenisation initiative could also pave the way for the increased utilization of 'Make in India' steels in other related sector such as space and defense," the release added.



Headline : HAL, Bharat Forge, Saarloha ink MoU for producing aerospace grade steel alloys

Domain : Moneycontrol

Date : February 16, 2023

Journalist:

<https://www.moneycontrol.com/news/business/hal-bharat-forge-saarloha-ink-mou-for-producing-aerospace-grade-steel-alloys-10101301.html>

State-owned aerospace firm Hindustan Aeronautics Ltd (HAL), critical components maker Bharat Forge and specialty steel producer Saarloha Advanced Materials have signed a memorandum of understanding (MoU) for the production and development of aerospace grade steel alloys, as per a joint press release issued on February 16.

The MoU, which was inked at sidelines of the ongoing Aero India event in Bengaluru, "also accentuates development, certification and prove out and application of new material for use in production of aircrafts, engines, and accessories", it added.

The MoU was signed by M S Venkatesh, executive director of HAL's foundry & forge division; Guru Biswal, chief executive officer of Bharat Forge's aerospace division; and R K Goyal, director, Saarloha.

The development of aerospace grade raw materials in the country will help HAL in maintaining its commitment to the armed forces, and will also reduce the nation's dependency on foreign original equipment makers (OEMs) with respect to raw materials, Venkatesh said.

The MoU will open avenues for not only HAL and Saarloha, but also other companies which may be benefitted due to development of aerospace grade steel bars in country, he added.

Saarloha's director Goyal said that manufacturing of specialty steel would play a significant role in realising the success of national aerospace and defense programs under the government's 'Atmanirbhar Bharat' initiative.

"Developing and qualifying aero grade alloys shall benefit the aerospace manufacturing ecosystem in the country and make them more competitive globally," Bharat Forge's Biswal added.

The joint release further noted that, at present, there are "very few equivalent approved/qualified domestic suppliers" for various types of aerospace grade steel alloys used in aircraft applications. This increases the dependency on imports.

The MoU comes at a time when the usage of specialty alloys in aerospace is expected to increase multifold, especially in fighter aircrafts and helicopters, it pointed out.

"This indigenisation initiative could also pave the way for the increased utilization of 'Make in India' steels in other related sector such as space and defense," the release added.

Headline : Bharat Forge, HAL ink pact for production of aerospace grade steel alloys

Domain : The Times of India

Date : February 16, 2023

Journalist:

<https://timesofindia.indiatimes.com/bharat-forge-hal-ink-pact-for-production-of-aerospace-grade-steel-alloys/articleshow/97987505.cms?from=mdr>

State-owned HAL and Bharat Forge Limited have signed an agreement for development and production of aerospace grade steel alloys. The Memorandum of Understanding (MoU) was signed at the ongoing Aero India show in Bengaluru on Thursday, the two entities said in a joint statement.

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Headline : HAL, Saarloha & Bharat Forge, Sign MoU for Collaboration in Development and Production of Aerospace Grade Steel Alloys

Domain: Raksha Anirveda

Date : February 17, 2023

Journalist: Admin

<https://raksha-anirveda.com/hal-saarloha-bharat-forge-sign-mou-for-collaboration-in-development-and-production-of-aerospace-grade-steel-alloys/>

At Aero India 2023, Foundry & Forge (F&F) Division of Hindustan Aeronautics Limited (HAL), Saarloha and Bharat Forge Limited (BFL), signed a Memorandum of Understanding (MoU) on February 15 for development and production of aerospace grade steel alloys.

This MoU also accentuates development, certification & prove out and application of new material for use in production of aircrafts, engines, and accessories. The MoU was signed by M S Venkatesh (Executive Director, F&F, HAL), Guru Biswal (CEO – BFL Aerospace division) and R K Goyal (Director – Saarloha), in the presence of senior officials from HAL, Saarloha & BFL.

M S Venkatesh (Executive Director, F&F, HAL) said that the development of Aerospace grade raw materials in the Country will help HAL in maintaining its commitment to Armed forces and will also reduce nation's dependency on foreign OEM's with respect to raw materials. A step towards Aatmanirbhar Bharat, this MoU will open many other avenues for not only HAL & Saarloha, but many other companies which may be benefitted due to development of Aerospace grade steel bars in Country. HAL has embarked on a Journey to ensure that most of its raw material requirements can be fulfilled domestically & today's MoU is a step towards the same.

R K Goyal (Director, Saarloha) said that this initiative will create a unique synergy of capabilities to accelerate the aerospace grade steel alloys development and production in India. Aerospace grade steel alloys production & component qualification process contain stringent testing parameters which also includes long tests on actual operations. This collaboration would be a unique opportunity to speed up the qualification processes. Manufacturing of specialty steel would play a significant role in realizing the success of national aerospace and defense programs under "Aatmanirbhar Bharat" initiative and this MoU is a noteworthy step towards the same.

Guru Biswal (CEO-Aerospace Division, Bharat Forge) said that "Developing and Qualifying Aero grade Alloys shall benefit the Aerospace manufacturing eco system in the country and make them more competitive globally. This MoU with HAL is a testimony of the commitments from both the partners to work for an "Aatmanirbhar Bharat". It shall bring in larger alignment between us and create a roadmap to support all the present and future Aircraft and Engine programs of HAL."

There are very few equivalent approved/qualified domestic suppliers for various types of Aerospace grade steel alloys used in Aircraft applications. Due to this such alloys are getting imported which creates dependency on foreign steel, manufactures. Hence, accelerated efforts are needed to develop and manufacture such steel alloys in India through collaboration.

The usage of such specialty alloys in Aerospace is going to increase multifold, especially in fighter Aircrafts/Helicopters. This indigenisation initiative could also pave the way for the increased utilisation of 'Make in India' steels in other related sector such as space & defence.

Bengaluru / New Delhi: The address by Prime Minister Narendra Modi at the inauguration of the 14th edition of Aero India 2023 in Bengaluru from February 13 set the tone for the brisk business that took

place at the much awaited event. As he said, “When a country moves forward with a new thinking and new approach, then its systems also start changing accordingly. This event of Aero India also reflects the new approach of New India today.” The aero show saw the indigenous defence industry getting the much needed push for moving towards the government’s ambitious “Aatmanirbhar” or self-reliant India in the field of defence industry.

Prime Minister Modi said there was a time when it was considered to be merely a show or a window to ‘Sell to India’. This perception has also changed in the country in the last few years. Today Aero India is not just a show; it is also the strength of India. Today it focuses not only on the scope of the Indian Defence Industry but on self-confidence as well. This is because today India is not just a market for the defence companies of the world. India today is also a potential defence partner. This partnership is also with those countries which are far ahead in the defence sector. India is emerging as an important partner for those countries which are looking for a reliable partner for their defence needs.

The Air Show held biennially is a highly anticipated event in the aerospace and defence industry, as it brings together global leaders and experts to showcase the latest advancements and technologies. The show gave an opportunity to both the people of this southern metropolis as well as the foreign and domestic industry an opportunity to see a wide range of exhibits and demonstrations, including aircraft displays, technology demonstrations, and panel discussions on the latest developments in the industry.

The Air Show which is the largest aviation exhibition in Asia saw the leading Defence Public Sector Undertaking (DPSU), Hindustan Aeronautic Limited (HAL), host the Aero exhibition at the show. The theme for Aero India 2023 was “Flying for a Better Tomorrow,” reflecting the aim of the aerospace and defence industry to develop innovative technologies and solutions to tackle the challenges faced by humanity in the 21st century.

The event provided a platform for global leaders in the aviation industry to showcase their latest advancements and explore opportunities for collaborations and partnerships. The focus was on creating a sustainable future for aviation and aerospace through cutting-edge technologies, digital transformation, and advancements in electric and hybrid aviation. With a vision to create a better tomorrow, Aero India 2023 showcased the industry’s commitment to environmental sustainability, safety, and security in air transportation.

What was indeed a feather in the cap of the Aero India Show 2023 was that it saw as many as 266 partnerships including 201 MoUs, 53 major announcements and nine product launches being firmed up that could unlock business potentials worth around Rs 80,000 crore. The MoUs included one between Hindustan Aeronautics Limited and Safran Helicopter Engines of France for work share for formation of joint venture for design, development, manufacture and life time support of helicopter engines.

The show saw the historic debut of F-35, US Air Force’s newest fifth – generation fighters – the F-35A Lightning II and F-35A Joint Strike Fighter for the first time to take part in Aero India-2023. It saw the UK government assert its commitment to Aatmanirbhar Bharat saying that its defence sector was deployed in force at the show with an ambition to not only ‘Make in India,’ but also ‘Create in India.’

Another exhibit which attracted tremendous attention at the show was the Jetpack suit, manufactured by a Bengaluru-based startup which drew large number of eyeballs for its uniqueness and is in the reckoning for the contract by the armed forces. The Indian armed forces have placed a Request for Proposal (RFP) for procurement of 48 jet suits on trial basis. If they pass the test, the Army would initiate

large scale procurement, sources said. Manufactured by Absolute Composite Private Limited, based in Bengaluru, the jetpack suit has used five engines, including the turbo engine in the back.

The show saw the Garuda Aerospace unveiling its solar-powered drone “SURAJ”, designed specifically for surveillance operations, and it was unveiled by the Principal Scientific Advisor to Defence Minister and former DRDO Chief Dr Satheesh Reddy. According to the company, SURAJ is an ISR (intelligence, surveillance, reconnaissance) high-altitude drone designed specifically for surveillance operations, providing “real-time information to the high command and protecting jawans on the ground.” It said the drone’s unique J-shaped wings are equipped with solar-powered cells that serve as its primary fuel source, while an auxiliary battery provides additional propulsion or decreased speed as required.

Another major landmark at the Aero India 2023 was the participation by Israel this year which marked 30 years of Indo-Israel defence collaboration. SIBAT, the International Defence Collaboration Directorate of the Israel Ministry of Defence, is in charge of fostering defence cooperation between Israel and India. The show saw the demonstration of some defence technologies developed by Israel including Air Defence Systems, Unmanned Aerial Systems (UAS), Aerial and Ground Precise Guided Munitions, Electronic Warfare (EW) Systems, Land and Naval Solutions, Avionic Systems, Air and Missile Defence Systems.

In a major boost to indigenous defence industry, the CMD of Munitions India Limited, Ravi Kant said that the company has got orders for more than 10 lakh multi-mode grenades for Indian armed forces and over Rs 3,000 crores of orders for exports.

As part of India’s efforts to attract foreign defence industries to this country, Defence Minister Rajnath Singh met CEOs of global original equipment manufacturers (OEMs) on sidelines of the Show. At the meeting, Singh invited global OEMs to co-develop, co-produce, integrate and strengthen supply chains, form joint ventures, set up manufacturing in India and make for the world. The meeting was attended by the CEOs and senior management of General Atomics, Safran, Boeing, Embraer and Rafael Advanced Defence Systems.

During the interaction, Singh highlighted that India offers significant advantages of competitive land costs, skilled human capital, a vibrant start-up ecosystem and a huge domestic defence market to the Global Defence industry.

Emphasising the importance of the defence sector for India, Singh said, “Defence production meets the twin goals of becoming self-reliant in a critical sector as well as generating jobs for our people.” He said incentives were being given by Uttar Pradesh and Tamil Nadu state governments for investment in Defence Industrial Corridors, while the central government policies is also promoting FDI and defence manufacturing in India, the strong legal system protecting stakeholders’ interests and improvements in ease of doing business.

“There are opportunities to co-develop, co-produce, integrate and strengthen supply chains, from joint ventures, set up manufacturing in India and make for the world,” he said.

In keeping with the theme “The Runway to a Billion Opportunities,” the show had on display locally-produced equipment and technologies to attract partnerships with foreign companies. It also included aerial displays by aircraft and helicopters, as well as a large exhibition and trade fair of aerospace and defence companies. About 809 companies from 98 countries took part in the event.

The Defence Minister equated defence start-ups with “new energy, new commitment and new enthusiasm” at the “Start-Up Manthan.” Praising the Innovations for Defence Excellence (IDEX) initiative,

launched under the Defence Innovation Organisation (DIO) by the Ministry of Defence (MoD), he said this has enabled the emergence of talent from across the country. As more and more “technology challenges” are given to young defence innovators, the solutions save money and add to indigenisation. Singh launched the ninth edition of Defence India Start-up Challenges (DISC-9) on “Cybersecurity” with 28 problem statements, and the iDEX Investor Hub (iIH).

“More than Rs 200 crores have already been pledged under iIH by leading Indian investors,” stated the MoD.

With increasing use of drones by Pakistan on the Western borders specially for dropping narcotic substances, it has indeed become imperative to develop a technology to counter this increasing menace. The show saw the display of indigenously developed anti-drone system D4S (Drone Detect, Deter and Destroy) which technology was developed by DRDO and manufactured by Defence Public Sector Undertaking (DPSU) Bharat Electronics Limited (BEL).

As Manoj Jain, Director (R and D) BEL explained that D4S can detect rogue drones likely to attack a location and tackle any imminent security threats. These drones can destroy micro-drones by jamming the command and control links. These drones are indeed the need of the hour and would also come in handy along borders which are also used for smuggling drugs and arms for terrorists.

The show also saw DPSU HAL ink an MoU with HENSOLDT, South Africa for exploring collaboration to co-develop and co-produce stabilized multi-sensor airborne electro-optics Gimbal for Indian rotary and unmanned platforms and for future exports. HAL also signed an MoU with Skygear Aviation Pvt Ltd for collaboration on design, development and manufacture of UAV systems for 10 to 200 kgs payload using Drone Copter.

Apart from giving an opportunity for the thousands who came to witness the show, it also lived up to its motto “Make in India, Make for the World,” which has been the central theme of the government in the defence sector, Aero India-2023 put strong emphasis on showcasing home grown machinery and innovations as well as establishing alliances with foreign businesses.

Headline : Hindustan Aeronautics Limited (HAL), Foundry & Forge Division, Saarloha Advanced Materials Pvt Ltd (Saarloha) & Bharat Forge Limited (BFL), sign MOU

Domain: India Strategic

Date : February 17, 2023

Journalist: Admin

<https://www.indiastrategic.in/hindustan-aeronautics-limited-hal-foundry-forge-division-saarloha-advanced-materials-pvt-ltd-saarloha-bharat-forge-limited-bfl-sign-mou/>

Bengaluru. F&F HAL, Saarloha & BFL, signed a Memorandum of Understanding (MoU) for development and production of aerospace grade steel alloys, at Aero India on February 17.

This MoU also accentuates development, certification & prove out and application of new material for use in production of aircrafts, engines, and accessories. The MoU was signed by Mr. M S Venkatesh (Executive Director, F&F, HAL) Mr. Guru Biswal (CEO – BFL Aerospace division), & Mr. R K Goyal (Director – Saarloha), and in the presence of Senior officials from HAL, Saarloha & BFL.

Mr. M S Venkatesh (Executive Director, F&F, HAL) said that the development of Aerospace grade raw materials in the Country will help HAL in maintaining its commitment to Armed forces and will also reduce nation's dependency on foreign OEM's with respect to raw materials. A step towards AtmaNirbhar Bharat, this MoU will open many other avenues for not only HAL & Saarloha, but many other companies which may be benefitted due to development of Aerospace grade steel bars in Country. HAL has embarked on a Journey to ensure that most of its raw material requirements can be fulfilled domestically & today's MoU is a step towards the same.

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Headline : HAL, Saarloha & Bharat Forge to Develop Aerospace Grade Steel Alloys

Domain : Defense Mirror

Date : February 17, 2023

Journalist: Defense Mirror

https://www.defensemirror.com/news/33648/HAL__Saarloha__Bharat_Forge_to_Develop__Aerospace_Grade_Steel_Alloys

Hindustan Aeronautics Limited (HAL), Foundry & Forge Division, Saarloha Advanced Materials Pvt Ltd (Saarloha) & Bharat Forge Limited (BFL) signed a Memorandum of Understanding (MoU) for development and production of aerospace grade steel alloys, at Aero India today.

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Headline : Bharat Forge, HAL ink pact for production of aerospace grade steel alloys

Domain : NewsDrum

Date : February 16, 2023

Journalist: NewsDrum Desk

<https://www.newsdrum.in/business/bharat-forge-hal-ink-pact-for-production-of-aerospace-grade-steel-alloys>

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According to M S Venkatesh, Executive Director - F&F at HAL, the development of aerospace grade raw materials in the country will help HAL in maintaining its commitment to armed forces and will also reduce nation's dependency on foreign OEM's (original equipment manufacturers) with respect to raw materials.

Saarloha and Bharat Forge Limited are part of Kalyani Group.

Headline : Bharat Forge, HAL signed MoU for production of aerospace-grade steel alloys

Domain : Projects Today

Date : February 17, 2023

Journalist:

<https://www.projectstoday.com/News/Bharat-Forge-HAL-signed-MoU-for-production-of-aerospace-grade-steel-alloys>

Bharat Forge and HAL signed a memorandum of understanding (MoU) for the development and production of aerospace-grade steel alloys on 16 February 2023 at the ongoing Aero India show in Bengaluru.

Hindustan Aeronautics (HAL), Foundry & Forge (F&F) Division, Saarloha Advanced Materials (Saarloha), and Bharat Forge (BFL) signed a project collaboration agreement.

The development of aerospace-grade raw materials in the country will allow HAL to keep its commitment to the armed forces while reducing reliance on foreign OEMs (original equipment manufacturers) for raw materials.



Headline : Bharat Forge, HAL Ink Pact for Production of Aerospace Grade Steel Alloys

Domain : LatestLY

Date : February 16, 2023

Journalist: PTI

<https://www.latestly.com/agency-news/latest-news-bharat-forge-hal-ink-pact-for-production-of-aerospace-grade-steel-alloys-4850870.html>

State-owned HAL and Bharat Forge Limited have signed an agreement for development and production of aerospace grade steel alloys.

The Memorandum of Understanding (MoU) was signed at the ongoing Aero India show in Bengaluru on Thursday, the two entities said in a joint statement.

"Hindustan Aeronautics Limited (HAL), Foundry & Forge (F&F) Division, Saarloha Advanced Materials Pvt Ltd (Saarloha) and Bharat Forge Limited (BFL), signed an MoU for collaboration in development and production of aerospace grade steel alloys," it said.

"Manufacturing of specialty steel would play a significant role in realising the success of national aerospace & defense programmes under 'Atmanirbhar Bharat' initiative," R K Goyal, Director at Saarloha, said.

Also Read | 7th Pay Commission: Central Government Likely to Hike DA by 4%, Check How Much Dearness Allowance Employees Will Get.

There are very limited approved/qualified domestic suppliers for various types of aerospace grade steel alloys used in aircraft applications. Due to this, such alloys are getting imported, creating dependency on foreign steel manufacturers, Guru Biswal, CEO - Aerospace Division of Bharat Forge, said.

According to M S Venkatesh, Executive Director - F&F at HAL, the development of aerospace grade raw materials in the country will help HAL in maintaining its commitment to armed forces and will also reduce nation's dependency on foreign OEM's (original equipment manufacturers) with respect to raw materials.

Saarloha and Bharat Forge Limited are part of Kalyani Group.

Headline : F&F HAL, Saarloha & Bharat Forge sign MoU at Aero India

Domain : EquityBulls

Date : February 17, 2023

Journalist:

<https://www.equitybulls.com/category.php?id=328156>

F&F HAL, Saarloha & BFL, signed a Memorandum of Understanding (MoU) for development and production of aerospace grade steel alloys, at Aero India today.

This MoU also accentuates development, certification & prove out and application of new material for use in production of aircrafts, engines, and accessories.

The MoU was signed by Mr. M S Venkatesh (Executive Director, F&F, HAL) Mr. Guru Biswal (CEO - BFL Aerospace division), & Mr. R K Goyal (Director - Saarloha), and in the presence of Senior officials from HAL, Saarloha & BFL.

Mr. M S Venkatesh (Executive Director, F&F, HAL) said that the development of Aerospace grade raw materials in the Country will help HAL in maintaining its commitment to Armed forces and will also reduce nation's dependency on foreign OEM's with respect to raw materials. A step towards AtmaNirbhar Bharat, this MoU will open many other avenues for not only HAL & Saarloha, but many other companies which may be benefitted due to development of Aerospace grade steel bars in Country. HAL has embarked on a Journey to ensure that most of its raw material requirements can be fulfilled domestically & today's MoU is a step towards the same.

Mr. R K Goyal (Director, Saarloha) said that this initiative will create a unique synergy of capabilities to accelerate the aerospace grade steel alloys development & production in India. Aerospace grade steel alloys production & component qualification process contain stringent testing parameters which also includes long tests on actual operations. This collaboration would be a unique opportunity to speed up the qualification processes. Manufacturing of specialty steel would play a significant role in realizing the success of national aerospace & defense programs under "Atmanirbhar Bharat" initiative and this MOU is a noteworthy step towards the same.

Mr. Guru Biswal (CEO-Aerospace Division, Bharat Forge) said that "Developing and Qualifying Aero grade Alloys shall benefit the Aerospace manufacturing eco system in the country and make them more competitive globally. This MoU with HAL is a testimony of the commitments from both the partners to work for an "Atmanirbhar Bharat". It shall bring in larger alignment between us and create a roadmap to support all the present & future Aircraft and Engine programs of HAL."

There are very few equivalent approved/qualified domestic suppliers for various types of Aerospace grade steel alloys used in Aircraft applications. Due to this such alloys are getting imported which creates dependency on foreign steel, manufactures. Hence, accelerated efforts are needed to develop and manufacture such steel alloys in India through collaboration.

The usage of such specialty alloys in Aerospace is going to increase multifold, especially in fighter Aircrafts/Helicopters. This indigenization initiative could also pave the way for the increased utilization of 'Make in India' steels in other related sector such as space & defense.

Shares of Hindustan Aeronautics Limited was last trading in BSE at Rs. 2666.20 as compared to the previous close of Rs. 2484.45. The total number of shares traded during the day was 202901 in over 18439 trades.

The stock hit an intraday high of Rs. 2709.50 and intraday low of 2485.00. The net turnover during the day was Rs. 530999257.00.



Headline : Hindustan Aeronautics Limited, Foundry & Forge Division, Saarloha Advanced Materials Pvt Ltd & Bharat Forge Limited, Sign Mou for Collaboration in Development and Production of Aerospace Grade Steel Alloys

Domain : Market Screener

Date : February 21, 2023

Journalist:

<https://www.marketscreener.com/quote/stock/BHARAT-FORGE-LIMITED-6493080/news/Hindustan-Aeronautics-Limited-Foundry-Forge-Division-Saarloha-Advanced-Materials-Pvt-Ltd-Bhara-43025015/>

F&F HAL, Saarloha & BFL, signed a Memorandum of Understanding (MoU) for development and production of aerospace grade steel alloys, at Aero India today. This MoU also accentuates development, certification & prove out and application of new material for use in production of aircrafts, engines, and accessories. There are very few equivalent approved/qualified domestic suppliers for various types of Aerospace grade steel alloys used in Aircraft applications.

Due to this such alloys are getting imported which creates dependency on foreign steel, manufactures. Hence, accelerated efforts are needed to develop and manufacture such steel alloys in India through collaboration. The usage of such specialty alloys in Aerospace is going to increase multifold, especially in fighter Aircrafts/Helicopters.

This indigenization initiative could also pave the way for the increased utilization of 'Make in India' steels in other related sector such as space & defense.



Headline : Bharat Forge, HAL, Saarloha enters MoU for aerospace grade steel alloys

Domain : Projects Monitor

Date : February 20, 2023

Journalist: admin -

<https://www.projectsmonitor.com/daily-wire/bharat-forge-hal-saarloha-enters-mou-for-aerospace-grade-steel-alloys/>

Hindustan Aeronautics, Foundry & Forge Division, Saarloha Advanced Materials (Saarloha) & Bharat Forge entered a memorandum of understanding (MoU) for collaboration in development and production of aerospace grade steel alloys.

The MoU also accentuates development, certification & prove out and application of new material for use in production of aircrafts, engines, and accessories.

The development of aerospace grade raw materials will help HAL in maintaining its commitment to Armed forces. It will also reduce nation's dependency on foreign OEM with respect to raw materials.

Headline : Bharat Forge, HAL ink pact for production of aerospace grade steel alloys

Domain : Ground News

Date : February 16, 2023

Journalist:

<https://ground.news/article/hal-bharat-forge-saarloha-ink-mou-for-producing-aerospace-grade-steel-alloys>

State-owned aerospace firm Hindustan Aeronautics Ltd (HAL), critical components maker Bharat Forge and specialty steel producer Saarloha Advanced Materials have signed a memorandum of understanding. The MoU, which was inked at sidelines of the ongoing Aero India event in Bengaluru, accentuates development, certification and prove out and application of new material.

Headline : Indian aerospace gets wings of steel

Domain : Tfipost

Date : February 18, 2023

Journalist: Shubham Bajpai

<https://tfipost.com/2023/02/indian-aerospace-gets-wings-of-steel/>

India's defence and aerospace sector is making significant advancements every day, with new developments highlighting the government's commitment to "Aatmanirbhar Bharat," or self-reliant India. The "Make in India" initiative is driving the country's defence manufacturing sector to new heights while promoting a self-sufficient approach and modernization of its armed forces. The pursuit of "Aatmanirbhar Bharat" was praised at the Aero India show.

Aerospace graded steel alloys

As part of this effort, state-owned HAL and Bharat Forge Limited have signed an agreement to domestically manufacture steel alloys of aerospace grade. A Memorandum of Understanding (MoU) regarding the agreement is also signed. On the part of HAL Foundry & Forge (F&F) Division, Saarloha Advanced Materials Pvt Ltd has signed the MoU.

According to the director of Saarloha Advanced Materials Pvt Ltd, R K Goyal, "Manufacturing of specialty steel would play a significant role in realising the success of national aerospace & defence programmes under 'Aatmanirbhar Bharat' initiative."

Guru Biswal, the CEO of Aerospace Division of Bharat Forge portrayed the limitations of India in this sector.

Agreement of real 'Aatmanirbharta'

Prior to this agreement, India relied on foreign manufacturers to import the necessary alloys for the aerospace industry. This dependence posed a significant challenge as there were no approved or qualified domestic suppliers to fulfil the requirements. However, with the new agreement in place, India can reduce its dependence on foreign manufacturers and achieve self-sufficiency in the aerospace industry.

This will not only strengthen India's defence capabilities but also help the country save money and time by producing these critical alloys domestically. Moreover, achieving self-sufficiency will also help India become a leading player in the global aerospace industry, leading to new business opportunities and employment generation.

It is worth noting here that, while there is an increase in indigenous production of aircrafts and helicopter, there is an obvious requirement of the raw material. Procuring raw material from foreign countries and manufacturing in India is not a long-term sustainable plan for indigenous manufacturing. For complete self-reliance, the raw material should also be procured locally without any compromise in quality. Thus, this steel gains significance in this sense. India is the second largest producer of crude steel in the world which can prove to be a strength in this initiative.

Fulfilling Air Force's needs

On the part of HAL, it will help in fulfilling its commitment to the Indian Armed Force. The doctrine released by the Indian Air Force justified the need for shifting the focus of Air Force to aerospace. The doctrine called for transformation of the Air Force to Aerospace Force with complete modernisation. The Indian Air Force doesn't just want to increase its capability equivalent to other forces. Instead, it wants to compete with itself only and reach unparalleled heights. The perspective is simply future oriented.



**Headline : एयरोस्पेस ग्रेड स्टील निर्माण के लिए
भारत फोर्ज और एचएएल ले मिलाया हाथ**

Domain : Share Manthan

Date : February 17, 2023

Journalist:

<https://www.sharemanthan.in/the-news/70405-bharat-forge-hal-signed-deal-for-aerospace-grade-steel-alloys-20230217>

सरकारी स्वामित्व वाली रक्षा क्षेत्र की अग्रणी कंपनी एचएएल और भारत फोर्ज लिमिटेड ने एयरोस्पेस ग्रेड स्टील मिश्र धातुओं के विकास और उत्पादन के लिए एक समझौते पर हस्ताक्षर किए हैं।

इस सौदे की जानकारी गुरुवार को एक संयुक्त बयान के जरिये दी गयी। इसमें कहा गया है कि बेंगलुरु में चल रहे एयरो इंडिया शो में हिंदुस्तान एयरोनॉटिक्स (HAL), फाउंड्री एंड फोर्ज (F&F) डिवीजन, सारलोहा एडवांस्ड मैटेरियल्स प्राइवेट (Saarloha) और भारत फोर्ज (Bharat Forge) ने एयरोस्पेस ग्रेड स्टील मिश्र धातुओं के विकास और उत्पादन में सहयोग के लिए सहमति पत्र (MoU) पर हस्ताक्षर किए। सारलोहा और भारत फोर्ज लिमिटेड कल्याणी समूह का हिस्सा हैं।

सारलोहा के निदेशक आर के गोयल ने कहा, आत्मनिर्भर भारत पहल के तहत राष्ट्रीय एयरोस्पेस और रक्षा कार्यक्रमों की सफलता को साकार करने में विशेष इस्पात का विनिर्माण महत्वपूर्ण भूमिका निभाएगा।

भारत फोर्ज के एयरोस्पेस डिवीजन के सीईओ गुरु बिस्वाल ने कहा कि विमान अनुप्रयोगों में उपयोग किए जाने वाले विभिन्न प्रकार के एयरोस्पेस ग्रेड स्टील मिश्र धातुओं के लिए बहुत सीमित योग्य घरेलू आपूर्तिकर्ता हैं। इस वजह से इस तरह के मिश्र धातुओं के लिए देश को विदेशी इस्पात निर्माताओं पर निर्भर होना पड़ता है।

एचएएल में एफ एंड एफ के कार्यकारी निदेशक एम एस वेंकटेश ने कहा कि इस सौदे से कच्चे माल के संबंध में विदेशी ओईएम (मूल उपकरण निर्माताओं) पर देश की निर्भरता भी कम करने में मदद मिलेगी।

Social Media

Handle : The Economic Times	Source : Twitter
Date : 16 February, 2023	Link



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State-owned HAL and Bharat Forge Limited have signed an agreement for development and production of aerospace grade steel alloys.



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Handle : The Economic Times

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State-owned HAL and Bharat Forge Limited have signed an agreement for development and production of aerospace grade steel alloys.



The image shows the entrance to the Bharat Forge facility. A large white archway spans the entrance, with the words "BHARAT FORGE" in bold, black, sans-serif capital letters. Below the archway, there are two smaller arches. On the left, a sign features the HAL logo (a stylized 'K' in a circle) and the word "KALYANI". Below that, another sign has the "ET" logo and the word "Defence".

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