

Pune's share in Isro success

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Pune: City is also associated with the historical mission Isro's successful launch of Mars Orbiter Mission on Tuesday. Some of the important parts of the launched vehicle that helped Mangalyaan's launch from Sri-

harikota was manufactured in Pune-based Walchandnagar Industries Limited (WIL).

Speaking to **dna**, a senior officials of WIL said that the industry has supplied rocket motor casing and nozzles for the Zeroth and First stage of the Polar Satellite Launch Vehicle (PSLV) which was used for the successful launch.

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Walchandnagar's share in ISRO success

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WIL managing director GK Pillai said, "We are thrilled to be a part of the historic moment for the country. The launch of Mangalyaan is a proud moment for the country and Walchandnagar is equally proud."

Pillai said that many critical key components and hardware such as S-139 and Head end segment, Nozzle end Segment-38 and Nozzle Divergent Aft End-35, as well as PSOXL motor cases which are

the parts of the launch vehicle have been manufactured and supplied by the Walchandnagar industry. "The manufacturing started in late 2012 and it took nearly six to seven months for the whole manufacturing to complete. During this period a team of experts from ISRO was camping in Walchandnagar to make sure that the manufacturing of the products is taking place as per the requirement of ISRO and it is of highest quality," he said.

This is not the first time that WIL has contributed to country's space mission. "The association of WIL with ISRO began in the 70s where WIL successfully developed indigenously

critical manufacturing technologies for aerospace components, the rocket motors." WIL first developed rocket motor casing and nozzles for ISRO's first satellite launch vehicle program, Rohini in 1973. "Since then, WIL has been continuously working with ISRO for further development of advanced versions of satellite launch vehicles. The motor casing of Augmented Satellite Launch Vehicle (ASLV), Polar Satellite Launch Vehicle (PSLV) and Geo Centric Satellite Launch Vehicle (GSLV MK-I, GSLV MK-II, GSLV MK-III) have been manufactured by WIL.

Speaking about the growing business sector of aerospace

sector, Pillai said, "Earlier we had sugar, cement and boiler division and then we started special product division under which aerospace, nuclear sector was included but as the business grew, we have started separate divisions for Aerospace sector, Nuclear sector, defence sector and missile sector in the WIL. In order to cater to the growing needs of Indian Space Mission Programme and related defence programmes, WIL has created a state-of-art infrastructural facilities at Walchandnagar where dedicated teams of experts has been assigned to each sector."

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Pune co had role in Mars mission

Dileep Athavale | TNN

Pune: When India's Mars Orbiter 'Mangalyaan' took off from the Sriharikota space station, the whole country rejoiced. But engineers and technicians at the manufacturing facility of Walchandnagar Industries Limited (WIL), located about 135 km from Pune, had a stronger reason to celebrate owing to their direct involvement in the ambitious project of the Indian Space Research Organization (Isro).

The technicians at WIL had manufactured the rocket motor casings and nozzles for the 44.4 meter Polar Satellite Launch Vehicle (PSLV) that carried the spacecraft into the space. Not just the rocket motor casings, but many critical components and hardware,



WIL's dedicated facility for strategic segments

such as head end segment, nozzle end segment and Nozzle Divergent Aft End as well as PS0XL motor cases were WIL's contribution to India's Mars programme.

Managing director and chief executive G K Pillai told TOI that WIL is thrilled to be a part of this historic moment for India. "The casings sup-

plied for 'Mangalyaan' are very critical as they have to withstand extreme heat and pressure which the PSLV generates at the time of take off. The casings take 8 to 10 months to manufacture. They go through stringent inspection and testing process at every stage by the company technicians and the staff of Isro," Pillai said. The segment of the PSLV for which we have supplied casings has a solid propellant creating high vibration at the time of take off which the casings efficiently withstand, he added.

On the collaboration with Isro, Pillai said, "WIL first developed rocket motor casings and nozzles for Isro's first Satellite Launch Vehicle programme (SLV3) Rohini in 1973. Since then, we have been continuously partnering with Isro

for development of advanced versions of Satellite Launch Vehicles successfully launched by India. Most of Isro's PSLV missions have motor casings manufactured by WIL."

Pillai said WIL has been contributing to India's space, aeronautical and defence programmes. It has in the past worked for supplying critical and core components for India's first mission to moon Chandrayaan and nuclear submarine INS Arihant.

Declining to put a value on the Mangalyaan order, Pillai said, "The company earns about Rs 100 crore every year from supplies to strategic programmes. What is more important is the experience and knowledge our engineers and technicians gain from such engagements."

Pune connection to Mars mission

ST CORRESPONDENT
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Pune: There is a Pune connection to India's successful mission to Mars. Walchandnagar Industries Ltd (WIL) manufactured and supplied some of the major components of the Polar Satellite Launch Vehicle (PSLV) rocket that carried the satellite into space.

The successful launch of the Mangalyaan mission by Indian Space Research Organisation (ISRO) was not only a celebratory event for the whole nation, but also for WIL, as the entire WIL team revelled in the glory of the launch. This is because WIL supplied rocket motor casings and nozzles for Zeroth and First Stage of the 44.4 metre PSLV-C25," Managing Director and chief executive of Walchandnagar Industries Limited, G K Pillai said.

WIL is a high technology heavy engineering company engaged in many nation-building programmes. Its manufacturing facility is located at about 135 Kms from Pune.

Pillai said that many critical key components and hardware such as S-139 and head end segment - 39 Nozzle end Segment -38 and Nozzle Divergent

OTHER CONTRIBUTIONS

- Many critical and core components for India's first Mission to Moon 'Chadrayaan'
- Major critical and core equipments to Indian built first nuclear submarine 'INS Arihant'

Aft End -35, as well as PS0XL motor cases - 24A, 31, 32, 33, 34 and 35 have been manufactured and supplied by Walchandnagar, which are part of the launch vehicle.

"The company is proud to be a part of India's continuing success story in the field of aerospace. The company is associated with ISRO for over four decades. Since its inception, WIL first developed rocket motor casings and nozzles for ISRO's first Satellite Launch Vehicle Programme (SLV 3) Rohini in 1973," Pillai said.

Since then, WIL has been continuously partnering with ISRO for development of advanced versions of satellite launch vehicles, which are successfully launched by India," he added.

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वालचंदनगर इंडस्ट्रीही मंगळ मोहिमेत

पुणे : भारताच्या पहिल्यावाहिल्या मंगळ मोहिमेसाठीच्या 'मंगलयाना'च्या यशस्वी प्रक्षेपणात वालचंदनगर इंडस्ट्रीज लिमिटेडचा मोठा वाटा आहे. कंपनीने या यानाच्या प्रक्षेपकासाठी रॉकेट मोटार केसिंग, नोझल्स पुरवल्या होत्या.

कंपनीचे व्यवस्थापकीय संचालक आणि मुख्य कार्यकारी अधिकारी जी. के. पिल्ले यांनी बुधवारी ही माहिती दिली. हे मंगलयान भूवीय उपग्रह प्रक्षेपकाच्या (पीएसएलव्ही-सी २५) मार्फत अवकाशात सोडण्यात आले. या यानाच्या अवकाशाप्रमणादरम्यान पृथ्वीच्या कक्षेदून जाताना प्रचंड फोर्समधून हे रॉकेट वर नेण्यासाठीच्या प्रक्षेपकाच्या यंत्रणेत वालचंदनगर इंडस्ट्रीजने महत्वाची भूमिका बजावली.

या यंत्रणेसाठीचे अत्यंत महत्वाचे काही सुटे भाग आणि हार्डवेअर कंपनीतर्फे पुरविल्यात आले. यामध्ये प्रक्षेपकाच्या तीन टप्प्यांमधील पहिल्या आणि तिसऱ्या टप्प्याच्या कामाचा समावेश होता. वालचंदनगर इंडस्ट्रीज यासाठी महत्वाची भूमिका बजावता आली याचा आम्हाला अभिमान आहे,' असे पिल्ले यांनी सांगितले.

Mangalyan Mission brings cheer for WIL engineers

BS REPORTER
Pune, 8 November

When India's Mars orbiter mission (MOM) took off from Sriharikota on Tuesday, it was a moment of joy for engineers of Pune based Walchandnagar Industries Ltd (WIL). WIL had manufactured the rocket motor casings and nozzles for the 44.4 meter Polar Satellite Launch Vehicle (PSLV) that carried the spacecraft into the space. Not only the rocket motor casings, but many critical components and hardware, nozzles as well as PSOXL motor cases were manufactured at WIL.

Walchandnagar Industries Ltd manufactured the rocket motor casings and nozzles for the 44.4 meter Polar Satellite Launch Vehicle (PSLV) that carried the spacecraft into the space for the Mars Mission.

Speaking about this, G K Pillai managing director and chief executive of WIL said, "Many critical key components, nozzles and hardware PSOXL motor cases have been manufactured and supplied by Walchandnagar and which are part of the PSLV used in the successful launch. The casings supplied for 'Mangalyaan' are very critical as they have to withstand extreme heat and pressure which the PSLV generates at the time of take off. The casings take 8 to 10 months to manufacture."

He added, "WIL is associated with ISRO for over four decades since the inception. Walchandnagar Industries first developed rocket motor casings and nozzles for ISRO's first Satellite Launch Vehicle program (SLV3) Rohini in 1973. Since then, WIL has been continuously partnering with ISRO for development of advanced versions of satellite launch vehicles successfully launched by India, such as Augmented Satellite Launch Vehicle (ASLV), Polar Satellite Launch Vehicle (PSLV) and Geo Centric Satellite Launch Vehicle. Most of Isro's PSLV missions have motor casings manufactured by WIL."

WIL has created a separate aerospace business division with dedicated facilities and infrastructure to cover all aspects including design, engineering and manufacture and quality assurance and critical tests of equipment for the space sector. This has about 150 workmen, 50 engineers and world-class manufacturing and testing facilities. Earlier, many core components for India's first mission to moon Chandrayaan and nuclear Submarine INS Arihant.

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