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Press Clippings on 26th Sep,2014

MOM sends pics via ECIL antenna

TIMES NEWS NETWORK

Hyderabad: The first images of Mars from Mangalyaan were received by the Indian Space Research Organisation (Isro), thanks to a 32-meter diameter Indian Deep Space Network (IDSN) antenna that has been provided by ECIL for the Mars Orbiter Mission (MOM).

"The first pictures received from MOM through this antenna were of a very impressive quality. The 32-meter IDSN antenna will continue to play a vital role in receiving data and photographs from the Mars orbiter using the five scientific instruments which form part of the MOM's payload," ECIL said here on Thursday.

Electronics Corporation of India Limited (ECIL), a government of India enterprise under the Department of

Atomic Energy, in Hyderabad provided the antenna needed for tracking, telemetry and command applications of the Mars mission programme through Isro Telemetry Tracking and Command Network (ISTRAC).

The antenna system, weighing about 300 tonnes,

STATE-OF-ART TECH

was built totally indigenously by ECIL at a cost of about Rs 65 crore in association with Bhabha Atomic Research Center (BARC), Isro Satellite Center (ISAC) and ISTRAC. The system is located at Byalalu village about 40 km from Bangalore.

This antenna system employs the state-of-the-art technology in the precision formed reflector surface, Wheel and Track Mount, Beam Wave

Guide Feed Systems and Servo System capable of positioning the sub-reflector to compensate the gravity deformations when the antenna moves from 0 to 90° elevation.

ECIL's involvement in the project was right from framing the specifications to testing and commissioning of the antenna system.

ECIL supported Mangalyaan from the time of launch on November 5, 2013 to acquisition of signal from MOM when it entered the Mars orbit at 0800 hrs IST on September 24, 2014.


The signal from MOM was received by the IDSN antenna at 11.35 am on Wednesday, approximately after about 3 ½ hrs of reception of radio signals at Canberra station in Australia, when the Mars Orbiter was visible over the Indian sub-continent.

Times of India

DECCAN CHRONICLE FRIDAY | 26 SEPTEMBER 2014 | HYDERABAD

City-based body aided Isro ECIL antenna gets MoM pics

DC CORRESPONDENT
HYDERABAD, SEPT. 25



The Mars Orbiter on Thursday sent the first pictures of the Red Planet, which were received by an antenna built by Hyderabad-based Electronics Corporation of India Limited (ECIL).

ECIL officials said that the pictures received were of good quality and there were no glitches in data reception. ECIL had built a mammoth 32 metre-diameter antenna system weighing about 300 tonnes in 2008. The antenna system was also crucial in the operation of the earlier launched Chandrayaan mission. The antenna installed near Bengaluru as part of the Indian Deep Space Network was operated by ECIL personnel stationed there for the entire 11 months of the mission period.

On Thursday, the Mars Orbiter sent the first pictures of the Red Planet taken with the onboard camera.

"The first pictures received from MoM through this antenna were of good quality. The 32-meter IDSN Antenna will continue to play a vital role during acquisition of data and photographs from Mars using the five scientific instruments which form part of MoM's payload," ECIL officials said on Thursday.

The antenna system works by precisely pointing towards the direction of the Mars Orbiter. "It precisely points to the MoM orbiting round Mars, almost 65 crore km away from Earth," ECIL officials said.

The antenna was installed at Byalalu village, about 40 km away from Bengaluru. It was jointly built by Bhabha Atomic Research Centre, Isro Satellite Centre (ISAC) and Isro Telemetry Tracking and Command Network.

The image of the Martian surface taken by MoM.
—PTI

Deccan Chronicle

First MOM pictures came through ECIL antenna

Special Correspondent

HYDERABAD: The first pictures received from Mars Orbiter Mission (MOM) were through 32-metre diameter antenna system built by the Hyderabad-based Electronics Corporation of India Limited (ECIL) and stationed at Byalalu, 40 km away from Bangalore.

The Indian Deep Space Network (IDSN) antenna will play a vital role during acquisition of data and graphs from Mars using the five scientific instruments which form part of MOM's payload, according to scientists of ECIL. The antenna is needed for tracking, telemetry and command applications of Mars mission programme

of ISRO through ISRO Telemetry Tracking and Command Network. The acquisition of the signal from MOM by the IDSN Antenna at Byalalu occurred at 11.35 a.m. on Wednesday approximately after about 3 hrs of reception of radio signals at Canberra station in Australia, when the Mars Orbiter was visible over the Indian sub-continent.

ECIL has positioned its professionals at Byalalu during the entire journey of 65 crore km spread over a period of almost 11 months. The antenna weighs about 300 tonnes and was built indigenously at a cost of about Rs. 65 crore in association with Bhabha Atomic Research Centre, ISRO Satellite Center and ISTRAC.

The Hindu

Local Pride: MOM's Images Received by ECIL's Antenna

ECIL provided the antenna for tracking, telemetry and command applications of MOM

Express News Service

Hyderabad: Electronics Corporation of India Limited on Thursday, expressed pride at being associated with Mars Orbiter Mission (MOM) by providing the 32-meter diameter Indian Deep Space Network (IDSN) Antenna needed for tracking, telemetry and command applications of the MARS mission program of the Indian Space Research Organization (ISRO) through ISRO Telemetry Tracking and Command Network (ISTRAC).

The Bhabha Atomic Research Center (BARC), ISRO Satellite Center (ISAC) and ISTRAC also collaborated in the development, which cost ₹65 crore. It precisely points to the MOM orbiting round Mars almost 65 crore km away from the Earth.

ECIL's involvement was right from framing the specifications to testing and commissioning of the antenna system. The realization of this 32-meter diameter IDSN antenna involved almost all the disciplines of engineering.

ECIL supported the coun-

try's Mars Mission Program Mangalyan right from the time of launch on November 5, 2013 to acquisition of signal from MOM when it entered the Mars orbit on September 24, 2014.

The acquisition of the signal from MOM by the IDSN antenna at Byalalu, Bangalore occurred at 11.35 a.m. on September 24, approximately three and a half hours after reception of Radio signals at Canberra station in Australia, where the Mars Orbiter is visible over the Indian sub-continent.

ECIL positioned its profes-

sionals for this antenna system at Byalalu during the entire journey of 65 crore km spread over a period of almost 11 months.

The antenna will continue to play a vital role during acquisition of valuable data and photographs from Mars using the five crucial scientific instruments which form part of Mars Orbiter Mission's payload.

Earlier, in the year 2008, the same antenna from Electronics Corporation of India Limited was used for country's first lunar mission CHANDRAYAAN-1.

The New Indian Express

Press Clippings on 26th Sep,2014

HYDERABAD
**HANS**
THE HEARTBEAT OF TWIN CITIES

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METRO FARE

Bathukamma contest **P 05**

KALEIDOSCOPE

Promoting Telangana art across the world **P 08**



Mangalyaan's Hyderabadi connect

ECIL's state-of-the-art antenna is being used to receive images from Mars. It was indigenously built at a cost of Rs 65 crore. The antenna was earlier used for ISRO's highly acclaimed lunar mission Chandrayaan-1

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Press Clippings on 26th Sep,2014

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FRIDAY 26 SEPTEMBER 2014

HYDERABAD HANS

METRO FARE

Mangalyaan's Hyderabad connect

OUR BUREAU

The success of Mars Orbiter Mission (MOM) is a proud moment for every Indian. It's even more praiseworthy that a firm from the city played a crucial role in ensuring the mission's success. The Electronics Corporation of India Limited (ECIL), which works under the Department of Atomic Energy, provided a 32-metre Indian Deep Space Network (IDSN) antenna needed for tracking, telemetry and command applications for the Mars mission. The antenna was provided through Indian

The antenna precisely points to the Mangalyaan, which is currently orbiting around the red planet, almost 65 crore kilometres away from the earth



Mangalyaan made a successful insertion into the Red Planet's orbit on Wednesday morning. By Thursday, the first image of Mars was sent to Earth, which was received by the same antenna developed by ECIL.

Space Research Organisation's (ISRO) Telemetry Tracking and Command Network (ISTRAC). The antenna, which weighs around 300 tonnes, was built indigenously at a cost of Rs 65 crore in association with Bhabha Atomic Research Centre (BARC), ISRO Satellite Centre (ISAC) and ISTRAC. It precisely points to the Mangalyaan, which is currently orbiting around the red planet, almost 65 crore kilometres away from the earth. The antenna system employs state-of-the-art technology which features a precisely formed reflector surface, wheel and track mount, beam wave guide feed systems and servo system capable of positioning the sub-reflector to compensate gravity deformations when the antenna moves from 0 to 90° elevation. The system is installed at Bylalu village which is about 40 kilometres from Bengaluru. ECIL was involved in the proj-

ect right from framing the specifications to testing and commissioning of the antenna system. The making of the 32-metre diameter IDSN antenna involved almost all the disciplines of engineering like soil mechanics, structural engineering, mechanical, RF & Microwave and control engineering. ECIL even positioned its professionals for the antenna system at Bylalu during the entire journey of Mangalyaan, spread over a period of almost 11 months. "The first pictures received from the Mangalyaan through the antenna were of good quality. The antenna will continue to play a vital role during acquisition of data and photographs from Mars using five scientific instruments which form a part of Mangalyaan's payload," the ECIL stated. This is not the first time that the antenna is being used. Earlier in 2008, the same antenna was used for India's first lunar mission Chandrayaan-1.

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and has taken a dozen quality pic- moons and beam them to c

ECIL provided MOM antenna

A significant contributor to the Indian Space Research Organisation (Isro)'s Mars Orbiter Mission (MOM) was Hyderabad-based, state-owned Electronics Corporation of India Limited (ECIL), which provided the 32-m diameter Indian Deep Space Network (IDSN) antenna needed for tracking, telemetry and command applications. ECIL supplied the antenna system, weighing about 300 tonnes. It was built indigenously — at a cost of about ₹65 crore — in association with Bhabha Atomic Research Centre, Isro Satellite Centre and Isro Telemetry Tracking and Command Network. It precisely points to the MOM orbiting round Mars almost 650 million km away from the earth. According to ECIL, the antenna system employs state-of-the-art technology in the precision-formed reflector surface, wheel and track mount, beam wave guide feed systems and servo system capable of positioning the sub-reflector to compensate the gravity deformations when it moves from 0 to 90 degree elevation. The system is located at Bylalu village, about 40 km from Bangalore. ECIL was involved right from framing the specifications to testing and commissioning of the antenna system. The realisation of this 32-m diameter IDSN antenna involved almost all the disciplines of engineering, including soil mechanics, structural engineering, mechanical, microwave and control engineering. BS REPORTER

Business Standard

मंगलयान मिशन की सफलता में ईसीआईएल का महत्वपूर्ण योगदान

हैदराबाद, 25 सितम्बर-(मिलाप ब्यूरो) मंगलयान मिशन की सफलता से इलेक्ट्रॉनिक्स कांपरिशन ऑफ इंडिया लिमिटेड की उपलब्धियों में एक और अध्याय जुड़ गया है। ईसीआईएल ने मंगलयान मिशन की सफलता के लिए ट्रैकिंग, दूरमिति एवं नियंत्रण अनुप्रयोगों के लिए भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) दूरमिति ट्रैकिंग एवं नियंत्रण नेटवर्क के माध्यम से 32 मीटर व्यास का 'भारतीय गहन अंतरिक्ष नेटवर्क (आईटीएसएन)' ऐन्टीना उपलब्ध कराया था। ईसीआईएल ने लगभग 65 करोड़ रुपये की लागत से बने 300 टन भार के ऐन्टीना का विनिर्माण भाषा परमाणु अनुसंधान केन्द्र (बीएआरसी), इसरो उपग्रह केन्द्र एवं इसरो दूरमिति ट्रैकिंग एवं नियंत्रण नेटवर्क के सहयोग से पूर्णतः स्वदेशी तकनीकी से किया। यह ऐन्टीना भूमितल के 65



करोड़ कि.मी. दूर मंगल ग्रह के चारों ओर परिक्रमा कर रहे उपग्रह का अत्यंत सूक्ष्मता के साथ वैज्ञानिक एवं खगोलिय घटनाक्रमों को दर्शा रहा है। इस ऐन्टीना प्रणाली में अत्यंत नवीनतम प्रौद्योगिकी की परावर्तक सतह क्लील एवं ट्रैक माउंट, वीम तरंग गाइड फीड प्रणाली एवं सर्वो प्रणाली का प्रयोग

किया गया है। इसमें जब ऐन्टीना शून्य से 90 डिग्री उन्नयन पर होता है, तब गुरुत्व विरूपण की क्षतिपूर्ति होती है। यह ऐन्टीना प्रणाली बेंगलूर से लगभग 40 कि.मी. दूर ब्यालालु ग्राम में स्थित है। ईसीआईएल इस ऐन्टीना प्रणाली के प्रारंभिक परीक्षण के समय से ही अपना महत्वपूर्ण योगदान दे रहा है। इस 32 मी. ऐन्टीना की संकल्पना एवं विनिर्माण में इंजीनियरिंग के सभी क्षेत्रों जैसे, मुद्रा मेकैनिक्स, संरचना अभियांत्रिकी, मेकैनिक्कल, आरएफ एवं माइक्रोवेव तथा नियंत्रण अभियांत्रिकी का योगदान है। ईसीआईएल गत 5 नवम्बर, 2013 को मंगलयान के प्रक्षेपण के समय से (24 सितम्बर, 2014) यान के मंगल कक्षा में प्रवेश तक राष्ट्र की इस अभूतपूर्व वैज्ञानिक एवं खगोलीय सफलता में सहभागी रहा है। मंगलयान से सिग्नल 24 सितम्बर

को सुबह 11.45 आईडीएसएन ऐन्टीना ब्यालालू से अधिगृहित होने लगे। यह सफलता ऑस्ट्रेलिया के केनबरा स्टेशन में रेडियो सिग्नल प्राप्त होने के 3.5 घंटे बाद प्राप्त हुई, जब यह उपग्रह भारतीय उपमहाद्वीप में दिखाई दिया। ईसीआईएल के कुशल इंजीनियर मंगलयान की इस 65 करोड़ कि.मी. की यात्रा के दौरान पूरे 11 माह तक ऐन्टीना प्रणाली की मॉनिटरिंग के लिए ब्यालालू में सजग एवं सतर्क रहे। इस ऐन्टीना के माध्यम से मंगलयान से प्राप्त प्रथम चित्र स्पष्ट था। यह 32 मि. व्यास वाला आईडीएसए ऐन्टीना मंगल ग्रह से मंगलयान पे-लोड के 5 प्रमुख वैज्ञानिक उपकरणों के माध्यम से डाटा प्राप्त करने में अत्यंत महत्वपूर्ण भूमिका निभाएगा। इससे पूर्व वर्ष 2008 में इसी ऐन्टीना का प्रयोग देश के प्रथम चंद्र अभियान 'चंद्रयान-1' में किया गया था।

Hindi Milaap