



Chandrayaan-2 Successfully Enters Lunar Orbit



RSN: Chandrayaan-2 has successfully entered lunar orbit; thus the country's ambitious mission has ticked off another key milestone in its journey to land safely on the moon.

According to the media reports, the orbital insertion was completed with an engine burn that began yesterday (Aug. 19) at 11:32 p.m. EDT (0332 GMT; 9:02 a.m. local time Aug. 20 in mission control). The burn lasted 1,738 seconds, nearly 29 minutes.

According to a statement from the Indian Space Research Organisation, which runs the Chandrayaan-2 mission, the procedure was successful and the mission is on track to set its lander down on the moon early next month. The spacecraft launched on July 22.

The Chandrayaan-2 spacecraft will orbit the moon for two weeks as mission control adjusts its orbit to bring the vehicle closer to the moon and orient it over the poles. Near the end of this period, the orbiter spacecraft will separate from the lander, dubbed Vikram, which is also carrying a rover called Pragyan.

Whatever happens with the perilous landing maneuver, the orbiter should remain at work around the moon for about a year. It follows a predecessor, India's first moon mission, which carried the instrument that confirmed the presence of water ice on the moon in permanently shadowed deep craters by the south pole.

It was that finding in part that inspired the Chandrayaan-2 mission to go back. If the landed component is successful, the lander and rover will spend one lunar day (two terrestrial weeks) studying the moon's south pole.

If Chandrayaan-2's landing goes smoothly, India will become the fourth nation to land softly on the moon, following the Soviet Union, the U.S. and China. An Israeli lander attempted the feat earlier this year but crashed during the final moments of the descent.



Sail Supplied Special Steel For Chandrayaan 2 Mission



New Delhi: Steel Authority of India Ltd. (SAIL) has supplied special quality stainless steel from its Salem Steel Plant for India's Moon Mission – Chandrayaan 2 meeting the ISRO's requirements for stringent specifications, superior surface finish and close tolerances. Earlier as well, SAIL has collaborated with ISRO to provide quality steel for the country's prestigious and indigenous space missions. For the Chandrayaan 2, SAIL's special quality sheet has been used in the Cryogenic

Engine (CE20).

The public sector monolith Steel Authority of India Ltd. along with ISRO have taken a major step forward as a part of the MAKE IN INDIA initiative advanced by Hon'ble Prime Minister Shri Narendra Modi for indigenously developing the exotic Russian grade ICSS-1218-321(12X18H10T) austenitic stabilized stainless steel used in the construction of the cryogenic rocket engines that are being made at ISRO.

As a part of this initiative, scientists from Liquid Propulsion System Centre (LPSC) of ISRO and the SAIL team at its Salem Steel Plant have closely collaborated and successfully rolled the stainless steel coils at Salem. In this, Electro Slag Remelted (ESR) and forged slabs conforming to ICSS-1218-321 austenitic stainless steel slabs provided by ISRO has been successfully hot rolled in the Hot Rolling/Steckel Mill at SAIL's Salem Steel Plant. This hot rolled coil of 4 mm thickness was further cold rolled to 2.3 mm thickness as required by ISRO. This 2.3 mm thick sheet has been used in the Cryogenic Engine (CE20) of Chandrayaan mission. With this major breakthrough, SAIL is optimistic of leveraging other aerospace grades of stainless steel for the space launch vehicle components in the future.



Landmine Explosion In Syria, 7 Children Died



Damascus: At least seven kids were died by the explosion of a land mine in eastern Syria. The land mine exploded in the town of Dablan in the eastern province of Deir al-Zour, said the report. It added that the land mine is from the leftovers of the Islamic State (IS), who had controlled the town ahead of its liberation last year.

It's the latest casualty to be reported by similar explosions in Syria. Land mines have killed dozens of people in the formerly rebel-held areas amid government-led efforts to remove the

mines for the safety of civilians. On 11th April, three children were killed and another was wounded by the explosion of a land mine in southern Syria.

On 6th March, seven civilians were died by a land mine explosion in Aleppo in northern Syria. Later March, another nine people were killed by a land mine blast in Aleppo province.

On 24th Feb, a total of 24 civilians were killed by similar explosions in central Syria.



Centre's Govt Hikes Msp Of Around 13 Grains



New Delhi: BJP led Central government has given gift to farmers by raising the minimum support price (MSP) of paddy, a key kharif crop, by 3.7 percent to Rs 1,815 per quintal for the 2019-20 crop season, said Agriculture and Farmers Welfare Minister Narendra Singh Tomar. The MSP for paddy has been increased by Rs 65 per quintal, Jowar by Rs 120 per quintal and Ragi by Rs 253 per quintal. The decision was taken at the Cabinet Committee on Economic Affairs (CCEA) chaired by Prime Minister

Narendra Modi.

The minister further said MSP of tur, moong and urad pulses also have been raised by Rs 215, Rs 75 and Rs 100, respectively, for the 2019-20 crop season. The minimum support price, which the Centre guarantees to pay to farmers, has also been raised in case of groundnut by Rs 200 a quintal and soyabean by Rs 311.

In addition, medium cotton MSP has been raised by Rs 105 quintal and long cotton MSP by Rs 100 a quintal. Meanwhile, I&B Prakash Javadekar the Cabinet has approved the bill on wage code, but did not provide details, as Parliament is in session.



Amitabh Bachchan Pays Off Loans Of 2,100 Farmers



JSN: Megastar Amitabh Bachchan has cleared the loans of over two thousand farmers from Bihar. Last year, Bachchan had supported 1,398 farmers from Uttar Pradesh and 350 from Maharashtra by paying off their loans.

“A promise made, done... the farmers from Bihar that had outstanding loans, picked 2100 of them and paid off their amount with an OTS (One Time Settlement) with the bank... called some of them over to Janak and personally gave it to them at the hands of Shweta and Abhishek,” Amitabh Bachchan wrote on his blog.

Bachchan said he called on some of the farmers to his residence and donated the amount at the hands of his children Shweta and Abhishek.

Bachchan also said he was on his way to honour another promise he made to the martyr families of the Pulwama terror attack.

“Now going to Janak to complete another promise... to give some monetary assist to the martyr’s families, who sacrificed their lives at Pulwama...”



Ioc Joins Hand With Hpcl, Bpcl For Country’s Longest Lpg Pipeline Project



BPCL and HPCL will take 25 per cent stake each in the Rs 9,000-cr project that involves laying of a pipeline from Kandla in Gujarat to Gorakhpur in Uttar Pradesh, the companies said in separate but almost identical regulatory filings. IOC, which had in 2016 proposed laying of the pipeline, will hold the remaining 50 per cent stake.

“IOC, BPCL, and HPCL have signed an agreement on June 3, 2019, for the formation of a joint venture company for implementation and subsequent operation of 2757-km long LPG pipeline from Kandla, Gujarat to Gorakhpur, UP,” the filings said.

LPG will be imported at Kandla and some sourced from oil refineries on the west coast will be moved up north via Ahmedabad (in Gujarat), Ujjain, Bhopal (in Madhya Pradesh), Kanpur, Allahabad, Varanasi, and Lucknow (in Uttar Pradesh).

The pipeline will carry 6 million tonnes per annum of LPG.

This will be the longest LPG pipeline in the country. State-owned gas utility GAIL currently operates a 1,415-km line from Jamnagar in Gujarat to Loni near here. The line carries 2.5 million tonnes of LPG annually. GAIL also has a 623-km Vizag-Secunderabad pipeline. IOC also has a 274-km pipeline from Panipat in Haryana to Jalandhar.



Drdo Successfully Test-Fired Indigenously-Developed 500 Kg Inertially Guided Bombs



Jaipur: Achieving one more step towards our nation's security and safety, DRDO today successfully test-fired an indigenously-developed 500 kg inertially Guided Bomb at the Pokhran test firing range in Rajasthan. The bomb hit its target at 30 km with high precision.



China Tests Prototype Magnetic Levitation Train, Maximum Speed 600 Kmph



GNS/Beijing: Taking a step forward in the development of the nation in public transport with the hassle-free way with speed, China test rides a prototype magnetic levitation train with a designed maximum speed of 600 kmph, which its manufacturers say could pose major competition to the airline industry.

The train designed and made by the CRRC Qingdao Sifang Co, a wholly owned subsidiary of China, was unveiled on Thursday to the media in the eastern port city of Qingdao in Shandong province.

Once operationalised, it could pose major competition to the airlines, its manufacturers said. It can help check and optimize key technologies and core system components of the high-speed maglev system and lay a technological basis for an engineering prototype, Ding Sansan, head of the train's research and development team and deputy chief engineer of CRRC Qingdao, said.

"The prototype has already achieved static levitation and is in ideal condition," Mr. Sansan told media in Qingdao.

"We are building an experimental centre and a trial production centre for high-speed maglev trains and expect to put them into operation in the second half of the year," he said, adding that research and development of a five-carriage engineering prototype is proceeding smoothly.



Sensex Jumps Over 1000 Points After Exit Polls



JNS: As the all exit polls indicated more than an expected mandate for the NDA govt led by PM Narendra Modi The benchmark indexes opened sharply at higher levels and at the time of filing of this report, the BSE Sensex was up 1096 points (2.89%) at 39027.25 points.

The Sensex opened at 38901 and had touched the day's high of 39064 before correcting on profit

booking at higher levels. All sectoral indicators had also reported handsome gains. The BSE S&P Bharat 22 index was up 4.04%, BSE S&P 100 index was up 2.91%.

Similarly, the NSE Nifty also surged and was trading at 11733.75, up326.60 or (2.86%). Out of Nifty 50 stocks, 45 were travelling with gains. This bullish trend is expected to continue till the announcement of the Lok Sabha elections or beyond.

"NDA 2 will speed up economic progress in the year to 2024. Expect large growth from agricultural, industrial, infrastructure sectors," said Deven Choksey, CEO and MD KR Choksey Shares and Securities.

"Consumption boom from rural India will drive FMCG, Auto stocks. Beaten down stocks in financials, insurance are my favorite for investment," he said. "Post 23rd March, the market would focus back on the global macros and implications on commodities and currencies. Continued upward move till results are out is given. Nifty may trade in 11250-11800 range," Choksey said.



Bit Sindri Introduces A New Course On Unmanned Air Vehicles



With the emergence of new technologies and after witnessing a sea change in the business world, BIT Sindri is on move to produce 'Drone experts'.

BIT Sindri introduced a new course on Unmanned Aerial Vehicles (UAV) – Drone Technology for all of its engineering branch or wing students which will be available from the new academic session, informed Dr DK Singh Director BIT Sindri.

“After completing of their four years degree course along with getting expertise in drone technology our all of them (students) will be called Drone Technology Experts,” he added.

We are in touch with DRDO officials and waiting for their nod; in the guidance of DRDO experts our students will get extraordinary expertise in UAV technology, said Singh.

Drones are part of the unmanned aircraft system (UAS) and the components of these devices are communication systems, a ground-based controller, and unmanned aerial equipment, explained a lab expert of BIT.

Drones provide useful missions to prevent injuries, accidents, and hazards when it involves navigating in an environment that is not suitable for human survival. Today, drones are now undergoing a commercialization process because it is now being manufactured and produced by technological and logistics companies around the world, said the expert.

Drone-based inspections are helping industries improve the efficiency and quality of data acquisition while increasing the safety and speed of delivery. Mass media networks also supporting its functionality and efficiency while capturing videos and images, he said.

Now-a-days Drones have made a vivid impact in many areas importantly Aerial Photography, Search and Rescue, Traffic control, Environmental and Wildlife Monitoring, Surveillance and Reconnaissance, Precision Agriculture, Air Sampling, Firefighting, Power line inspection, Postal delivery and many more applications. The unmanned systems industry is presently having tremendous growth. As a result, there is an increased demand for unmanned vehicle systems designers as well as experts, he said.