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India lights up the dark side of the moon

Chandrayaan-3's lander touches down precisely at 6.03 p.m., sparking celebrations

The success belongs to all of humanity. We can aspire for the moon and beyond: PM

Communication link established between lander and mission centre in Bengaluru

Rover will do chemical analysis of the lunar surface in the next 14 days

ndia has become the fourth country to suc-cessfully land on the n as the Chan-aan-3's lander mo-, with the rover in its successfully made a landing on the lunar ce on Wednesday.

Precisely at 6.03 p.m. the lander touched the lu nar surface and there were euphoric celebrations at the Mission Operations Complex (MOX) at ISRO Complex (MOX) at ISRO Telemetry, Tracking, and Command Network (IS-TRAC), Bengaluru, as India joined an elite list of coun-tries – the U.S., Russia and China – to achieve this



feat. India has also become the first nation to touch down on the polar region

landing on the moon," ISRO Chairman S. Somanath said. He said the lander had achieved most of the

nominal conditions of landing, including the ve-locity of touchdown.

'Exciting days ahead' "The velocity was less than 2 metres per second, this gives us a lot of confidence that the health of lander is when it is a bot of contactive that the health of lander is very good to carry out all the planned experiments, including the Pragyan rover coming out. We are looking for exciting 14 days from now. Mr. Somanath said.

The ISRO said a communication link was established between the lander and MOXISTRAC, Bengaluru.

It also shared images taken by the

lander's horizontal veloci-ty camera during the descent.

ty camera during the descent.

The successful landing on Wednesday has erased the painful memories of failure of the Chandrayaan-2's Vikram lander in 2019. During the descent, the Vikram lander gave up at an altitude of 2.1 km before touchdown and crashed on the lunar surface. It subsequently lost

communication with the ground stations.

However, this time everything went to plan.

Around 5.44 p.m., the powered descent of the lander module was initiated. The powered descent is divided into four phases – rough braking phase, altitude hold phase, fine braking phase and terminal descent phase. Wikram completed each of these

phases seamlessly and 19 minutes later, at 6.03 p.m., the lander made a safe and soft landing on the moon. Following the successful

landing, Prime Minister Narendra Modi addressed the nation from South Afri-ca, and said India's succas, and said fidia's suc-cessful moon mission was not India's alone. "This is a year in which the world is witnessing India's G-20 Presidency. Our approach of 'One Earth, One Family, One Future' is resonating across the globe. This hu-man-centric approach that we represent has been wel-

man-centric approach that we represent has been welcomed universally. Our moon mission is also based on the same human-centric approach.

He added that this success belonged to all humanity. And it would help moon mission that the second of the same that the second of the same that the sam



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Proud moment: Celebrations of the success of Chandrayaan-3 in Visakhapatnam. v. RAJU

The lander will deploy the rover which will carry out in-situ chemical analysis of the lunar surface during the course of its mobility. The lander and the rover with a mission life of one Lunar day (14 Earth days) have scientific payloads to carry out experiments on the lunar surface.

The Chandrayaan-3 mission was launched on July 14 from the Satish Dhawan Space Centre in Sribarikota.

Chandrayaan-3 consists of an indigenous lander module, propulsion module and a rover with an objective of developing and demonstrating new technologies required for inter-planetary missions.

The objectives of the mission are to demonstrate safe and soft landing on lunar surface, to demonstrate rover roving on the moon and conduct in-situ scientific experiments.

The soft landing took place days after Russia's Luna-25 spacecraft crashed into the moon after spinning out of control.

C.R. Rao, who pioneered several fundamental statistical concepts, dead

Jacob Koshy NEW DELHI

Calyampudi Radhakrishna Rao, 102, one of the world's most eminent statisticians who spent nearly all of his professional career in India, died in the U.S. on Wednesday.

protessional career in india, died in the U.S. on Wednesday.

Having taught and researched at the Indian Statistical Institute (ISI), Kolkata, Dr. Rao pioneered several fundamental statistical concepts such as the Cramer-Rao inequality and Rao-Blackwellization concepts that appear in undergraduate textbooks on startistics and econometrics

graduate textbooks on statistics and econometrics. C.R. Rao was born on September 10, 1920, at Hadagali in Ballari district of present-day Karnataka in a Teluau family.

presented by Karnarias in a Telagu family. He joined the ISI as a student when it was set up by P.C. Mahanobilis during the early years of statistics as a subject when it was yet to be taught as a distinct subject at the postgraduate level.

He was sent by Dr. Ma-



C.R.Rao

halanobis to Cambridge University, U.K., to use certain statistical techniques for anthropological analysis, and from where he earmed a doctorate under the supervision of Ronald Fischer, among the pioneers of the field.

'Pillar of ISI'

On returning to the Indian Statistical Institute in India, where Dr. Rao spent the next 40 years of his career, he conceived and established several undergraduate and graduate programmes in statistic and was instrumental in establishing several bureaus of the Indian Statistical Institute in various States

Dr. Rao was also a member of several government committees for the development of national statistical systems, statistical education and research in India.

"He was a pillar of the ISI, inspiring generations of students and researchers who themselves became iconic figures like S.R. Srinivasa Varadhan and K.R. Parthasarathy. He had won every conceivable award and honour," Congress spokesperson Jairam Ramesh posted on X, formerly Twitter.

After his retirement, Dr.

After his retirement, Dr. Rao moved to the U.S. and worked at several universities.

universities.
Former U.S. President George Bush conferred on him the National Medal of Science.

He was awarded India's highest honours the Padma Bhushan and Padma Vibhushan in 1969 and 2001, respectively.

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India welcomes consensus-based approach to expand BRICS: PM

One of the main topics at BRICS is Russia's quest to create an alternative to the G-7-driven global political-economic model; however, unlike their counterparts in Russia and China, Indian officials have not spoken aggressively for de-dollarisation

Kallol Bhattacherjee NEW DELHI

ndia welcomes the expansion of the BRICS grouping through a consensus-based proach, Prime Minister Narendra Modi declared in Johannesburg Addressing Wednesday. the plenary session of the 15th BRICS Summit in the historic South African city, he urged member states to take advantage of India's digital solutions and to work for the welfare of the

Global South.

The current BRICS
members are Brazil, Russia, India, China, and
South Africa, whose names
make up the group's acronym.

"125 countries participated in the Global South Summit that we organised this January. We have proposed that the African Union should be made a member of the G-20. I am confident that all BRICS partners will support these



Close ties: Narendra Modi, second from right, with other BRICS leaders during the Retreat Meeting in Johannesburg on Wednesday. ANI

ideas. India fully supports the idea of expansion of the membership of the BRICS and welcomes a consensus-based process," Mr. Modi said.

Global South focus

The plenary session was also attended by Brazilian President Luiz Inacio Lula da Silva, Chinese President Xi Jinping, and the host, South African President Cyril Ramaphosa, alongside other delegates. Russian President Vladimir Putin participated in the summit virtually, with the physical leadership for the Russian delegation being provided by Foreign Minister Sergey Lavrov. When the leaders posed together for a "family photograph", Mr. Ramaphosa held hands with Mr. Modi and Mr. Lavrov on his left and Mr. Xi and Mr. Lula da Silva to his right.

Continuing with India's priorities in its G-20 Presidency year, Mr. Modi kept the focus of his speech on the prospects of the Global South and the African Union, which is being represented at the BRICS Summit by the east African

nation of Comoros.

One of the main issues that is forming the backdrop of the expansion-related dialogue at BRICS is Russia's quest to create an alternative to the G-7-driven global political-economic model. This has acquired urgency since the western nations unleashed economic sanctions against Moscow after Mr. Putin launched the war against Ukraine in February 2022.

This process has also drawn from India's demand for changes in global multilateral systems to make them more responsive to the needs of the Global South. However, unlike their counterparts in Russia and China, Indian officials have not spoken aggressively de-dollarisation, though New Delhi has entered into local currency agreements with a few trading partners like the UAE. This indicates a difference among the founding members.

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Moon now in India's orbit

India becomes the fourth country to demonstrate the soft landing on moon

The entire mission operations from launch till landing happened flawlessly Pragyan Rover is designed to carry out two important experiments

Praise comes in from all quarters for the technological triumph after 2019 setback



Irapan-3, saccessfully anding on the surface of moon on Wednesday, the ocus has now moved to be raver in its helly, Pra-

the more in its bolly, Pra-gyan.

The officials at the Mis-sion Operations Complex (MIX) at BSIO Telemetry, Tracking, and Command Network (STIAM) here are readying to roll out the rov-er, which will carry out to aim chomical analysis of the lance surface on the move.

Somenath said.

He said that once out, the rover would carry out two important experiments.

two teaportant experiments.

R has two payloads — the LASER I Induced il Irraduction Spectroscope (LEIS) and the Alpha Particle X-ray Spectroscope (LEIS).

The objectives of the LEIS are to conduct qualitative and quantitative elemental analysis and to derive the chemical corposition and informative objection to further the understanding of the lunar surface.

The APAS will determine the elemental con-

mission operations from launch sill landing hap-pened flavelessly as per the timeline and we have be-come the fourth country to demonstrate the soft land-

come to norm control of demonstrate the soft land-ing on the moon and the first exastry to go to the South Pole of the moon.

Therking the navigation gridance and control team, propolation team, sensor-team and all the mainfrane subsystems tourns, who have brought success to the mission, Mr. Weenzutah-vel also expressed his grati-tude to the critical opera-tions review committee for thoroughly reviewing the mission operations right

The rover lass two payloads to conduct elemental analysis and mineralized commonition study position of huma seil and rocks around the huma funding site.

Soon after the ISBO achieved the historic leared planting set the humar South Pule, Mr. Sornarthi irreduced the low members who embled India to achieve the talk flowbooty.

P. Wernamultment, Pengan, it gives the flowbooty.

P. Wernamultment, Pengan, it gives the immerse such foresten, Chandrayana, salet, 'It is a linguistic to be part of Chandrayana, and as a mission operation from launch till landing humar selection operation from launch till landing humar selection of the review of the subject of the contribution of chandrayana, and it is received our good the review of the subject of the contribution of the contribution of Chandrayana, and 'I'vigorate who has supports the review of the review of the contribution of the contribution of the contribution of Chandrayana, and 'I'vigorate who has support description from humar the product of the contribution of the contribution of the contribution of the contribution of Chandrayana, and 'I'vigorate who has support of the contribution of the contribution of Chandrayana, and 'I'vigorate who has support of the contribution of the contribution of the contribution of Chandrayana, and 'I'vigorate when a mission operation for the contribution of the contribution of Chandrayana, and 'I'vigorate when a mission operation for the contribution of the cont

team."

M. Sankaran, Director of
U.R. Ran Sanditte Centre,
said, "Today we have
achieved what we set out to achieved what we set can to achieve in 2018. It was delayed by four years but we have done it. "It was referring to the failed landing of Charalinguage." In 2018. "As the Prime Minister mentioned, we will now be looking at putting man in space, putting spacecraft account Verma and landing a craft on Mars," he said. (With PTI imputt)

Opposition leaders congratulate ISRO for dedication, ingenuity

Opposition leaders across the political spectrum congravalated the Instant Space Research Organisation, with Congress president Malikarjan Kharge calling it is collective surcess of every inclaim and a transport of every inclaim and a transport of the congravation o

group generation of the first Barmoth, in their congratulatory mossages, underscened the point that space research has been a "sage of controlly" assect it stated in 10002.

"Chandrogues To soft landing on the uncharted in 10002.
"Chandrogues To soft landing on the uncharted in large Seath Poils in the result of decades of removable on ingermatily and hard work by our activities accommunity and hard work by our activities community soft landing to the community soft landing to the programme has contained to scale new beights and imprise generations of young droumers." Bhatnagar, A.P.J. Abdul Ka-lam and many other legendary scientists. "These ac-

post on X. CP904) general secretary Staram Yechney credited complishments are a testument to the vision of Pandit Javahartal Nehru who em-phasised and sin-cerely believed that a critical

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SRO

occasion, says President commitment to science could three the again of all evolutions and the country of the people, which was laster followed by successive Prime Ministers," Mr. Khange axid in a video mesoage. West Bengal Chief Minister and Trimatrool president and Trimatrool president and the land is now in the super league of space. Pormer Congress chief Rahal Gandhi and Congress general sorreinty jairroos general sorrei

It's a truly momentous

Persident Drospudi Mar-ms on Wednesday sold that the landing of Charan-daysans 3 on the larar sur-face was "a truly moment-tons occasion" which happens once in a lifetime and it has made the whole control recontrol.

and it has made the whole country peoul.

After workning the live telecust of the landing of Wikram lander on the moon, Marmu conveyed her congenitation y video message to the Indian Space Research Organisation and everyone associated with the Chandragaan 3 mission.

ed with the mission.

There are days when history is made. Today with the successful moon landing of the Chandrapan-3 mission, our scientists have not only made history but also remade the idea of geogra-



phy. It is truly a morron-tous occasion. "The kind of tous occasion. "The kind of event that happens once in a lifetime making India proad, I conquantiate ISBO and everybody involved in this mission and wish them

express my heartful grant tude to ISBO and our scien-tists for their undeterned efforts to make this mis-sion a historic success.

The Council of Scientific and Industrial Research headquarters in New Delhi erupted in joy as Chan-drayaan-3's lander touched

stryama 3's bander touched the latter state of the latter state.

The CSIR gathering was attended by Minister of State for Space Jinnside Siegh and Principal Scientific Advisor Ajay Soud. While others Intensise from the moore, Wale others stract in Hight of devents, Charles and Carpana 5' lan actualised the devant. Tricolour Binsiph in lumar shikes afferning Indula receive, as articulated by PM Modi, Sky is not the Brest," Mr Singh and

A testament to India's progress in science: Russia

Russian President Vladimir Patin was aerong the first world leaders to congran-late India after Ches-thropping and the Ches-dragan 3 studie a soft landing on the smooth sur-face.

In a message to Presi-dent Brougad Marma and Prizes Mirister Navendea Med, the Russian leader described the success of the mission as a proof of

progress that the Indian space progressment has made progressment from the december of the second of

space exploration takes a monumental loap forward. Rades to the brilliant minds behind this remar-kable feat? he said. Rassia's own moon mis-sion failed earlier but week

as the Lura-25 mission ended in a crash last week. Nepal's Foreign Minister N.P. Saud also congratube

ed India and said, "This is not only a moment of m-not only a moment of m-tional pride for our Indian friends but also an impor-tant milestone in the ad-vancement of space science and technology, which tilimately contri-butes to making our lives better."



achieved the lunar

Pole of the moon. This







a global standard by reaching the moon and landing at a designated location at a predetermined time MADRAVAN NAME



JOSEF ASCHRACIER



lam truly thrilled that forefront of space exploration and th pursuit of sustainable living on the moon. Filled with enthusiasm for hunar

exploration



Congranulations to 4India on being the specessfully soft-land a spacecraft on the moon. We're glad to be your partner on this mission!

EVA STALIN IAS ACADEMY - BEST IAS COACHING IN CHENNAI

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