

Newsletter

NOVEMBER 2022 EDITION

ISpA Newsletter catalogues all endeavours undertaken by ISpA in the direction of propelling India's Space Sector forward.

HIGHLIGHTS OF THE MONTH

- Skyroot Aerospace on Friday (November 18) became the first private Indian company to launch a rocket into space.
- PSLV C54 mission successfully launched Pixxel's Hyperspectral imaging Satellite 'Anand' in space.
- Dhruva Space successfully launched 2 nano-satellites in the same mission.
- Oceansat-3 satellite launched with active contribution of Aidin Technologies, MIL Industries, Ananth Technologies & Kepler Aerospace.
- ISpA is 50+ members strong!



SKYROOT
AEROSPACE



@ISpA_India



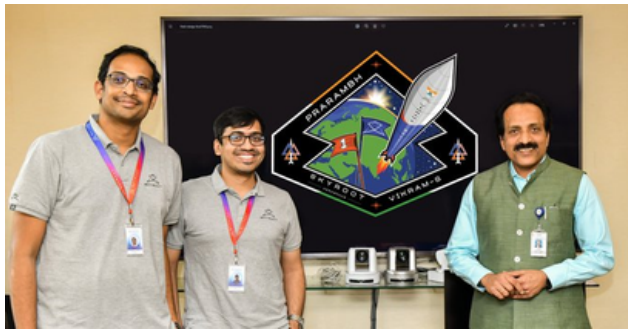
<https://ispa.space/>



ispa.india



ISpA- Indian Space Association



Skyroot Aerospace successfully launched India's First Private Rocket 'Vikram S', and accomplished Mission Prarambh.



SpaceKidz India and Students from the US, Indonesia, Singapore, Seychelles & India successfully deployed the payload 'FUNSAT'.



Agnikul Cosmos built India's first private Launchpad & Mission Control Centre at the Satish Dhawan Space Centre in Sriharikota.



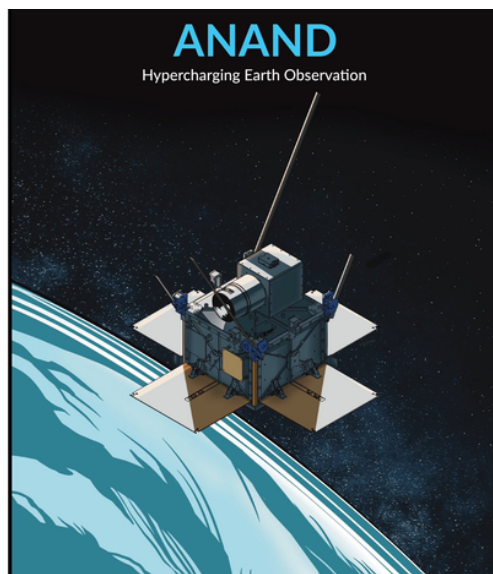
Team Dhruva Space successfully launched 2 amateur radio communication nanosatellites, Thybolt 1 & Thybolt 2, as part of ISRO's PSLVC54 mission on 26 Nov 22.



Kepler Aero installed Kepler ground station transceivers for support in all new ISRO-operated ground stations in Bangalore, Port Blair and Jodhpur. Their ground station software solutions also operate the ground station TTC at ISRO's partner facility in Mauritius.



Aidin Technologies successfully delivered the Oceansat3 S-band Transponder Sub system satellite involving Fabrication, wiring, assembly and end-to-end testing till thermovac (card level and package level testing).



Pixxel Space successfully sent their 3rd Hyperspectral Imaging Satellite 'Anand' on ISRO's PSLV C54.

MEMBERSHIP UPDATE - WE ARE 50+ STRONG



We are immensely happy to announce that the Indian Space Association has successfully reached the milestone of 50 members. Since its launch in October 2021 ISpA is dedicated to promoting space activities in India. The majority of ISpA's members are engaged in research & development, small and medium scale industry, academia and entrepreneurial activities in various fields related to space technology.

We congratulate all the team members for their dedicated and tireless efforts. Their remarkable work and dedication in the field of space technology is an inspiration for us all.

GeoSpatial - Roundtable 'Resilient PNT'

ISpA participated in a roundtable conference organised by GeoSpatial on 'Resilient PNT'. The following points were discussed in the meet:

- Challenges in GNSS.
- Solution for GNSS based on terrestrial networks.
- Role of GNSS in defence/military operations.
- Role of GNSS for civilian applications.



GeoSmart India 2022

To facilitate open and solution-oriented multi-stakeholder dialogue; engage in discussions to address some of the most persistent socio-economic challenges to deliver growth; facilitate networking of geospatial community consisting of government, mapping agencies, researchers, and private industry and users of spatial information; and fostering progressive policy change.

ISpA was the supporting partner of this event and Lt Gen AK Bhatt (Retd) was a panellist in panel discussion on "Geospatial Data Liberalisation - Policy Impact and Ease of Doing Business".

Meeting with Mitsubishi & MEMCO delegation



Round table meeting between ISpA and Japanese delegates of Mitsubishi & MEMCO was held at ISpA office on 24th of Nov 2022.

A detailed discussion took place on Space Situational Awareness (SSA) and the Japanese SSA radar system which is developed to monitor space debris using its Guiding/Calibration System and Sensor Control System. The meeting also included a presentation of the ISpA Brief and a discussion of developing bilateral relations between the two countries for the collaborative growth of space-related fields and technologies.



Bengaluru Tech Summit 2022

The 25th edition of Bengaluru Technology Summit, the 3-day annual tech exposition hosted by the Karnataka government, culminated on November 18 with a five-point declaration.

It envisages establishing a start-up park near Kempegowda International Airport, setting up R&D labs in 50 select colleges in the State, opening science and technology research centres in universities, working towards achieving synergy between educational institutions and the IT-BT companies, and building better connect between the industry, academia and educational institutions.

Companies such as Google, Paytm, HDFC, RazorPay, Microsoft, The GAIN, Dayanand Sagar Entrepreneurship Research and Business incubation, AWS Activate, and StrongHer Ventures have signed MoUs with the State. The summit also saw the launch of 28 new products.

Wing Commander Satyam Kushwaha (Retd), Director of the Indian Space Association attended the event as the panellist in the panel discussion on "ITE & DEEPTech".

Indian Defence Conclave 2022

The 4th Annual Indian Defence Conclave, which focused on creating and deploying disruptive technologies to achieve and sustain a competitive edge in defence capability, was held at the Vivanta New Delhi, Dwaraka, India, on the 17th and 18th November 2022. This event's goals were to promote India's vision of the country as a "Defence Manufacturing Hub" and to bring about "Digital Transformation in the Defense Industry."

This platform included a Presentation by Lt Gen AK Bhatt (Retd), Director General of the Indian Space Association and a number of keynote lectures by local and international speakers, panel discussions, and case studies from around the world.



Meeting with Mitsui & Co. Japanese



The multi-national Japanese corporation Mitsui's representatives presented their areas of expertise in the space sector and expressed an interest in collaborating with Indian startups.

The purpose of the meeting was to strengthen bilateral ties between the two nations in the rapidly expanding Indian space industry.

5th Executive Council (EC) Meeting 2022

The 5th EC meeting of the Indian Space Association was held on November 29th, 2022 which included the review of developments and strides by ISpA in the previous quarter. Recommendations and feedback from our executive council was realized on the topics like PLI schemes & other financial incentives to develop a manufacturing ecosystem in India along with solemnizing the priorities of ISpA members. Various updates on proposed future activities, views/comments on various policies and consultation was presented with a defined action plan.



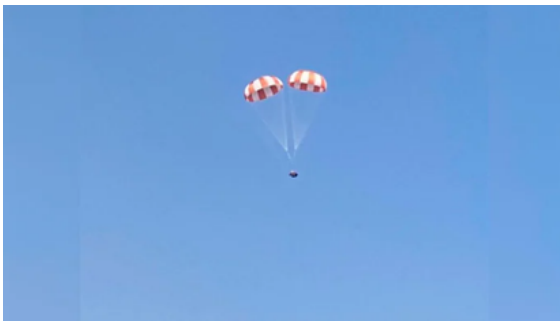
TRAI to share satellite spectrum views soon: PD Vaghela

Source: [ET Satcom](#)



Kerala-based DCUBE Ai collaborates with Australian startups to provide healthcare to astronauts.

Source: [Analytics Drift](#)



Gaganyaan: Isro tests parachutes that will bring Indian astronauts to Earth from space.

Source: [India Today](#)



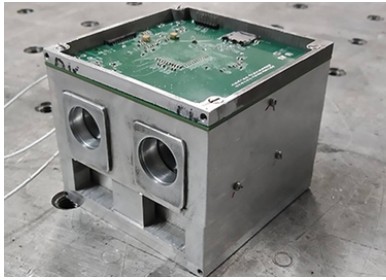
Space sector FDI norms may be relaxed in two months: Pawan Goenka

Source: [The New Indian Express](#)



Satellite imagery norms loaded against local firms: MapMyIndia seeks level playing field with Google.

Source: [The Financial Express](#)



How Astrogate is building high-tech optical satellite communication tech.

Source: [The Indian Express](#)



ISRO increases carrying capacity of its GSLV-MkIII rocket by 450kg

Source: [Business Standard](#)



Private sector satellites to boost IoT, ham radio use, earth observation.

Source: [ET SATCOM](#)



Dhruva Space looking to raise \$20-25 million in 2 years for satellite infra facilities.

Source: [The Economic Times](#)



Centre exempts ISRO from provisions of explosives rule.

Source: [The Telegraph India](#)



ISRO's cryogenic engine, indigenously developed for LVM3, passes hot test.

Source: [The Hindu](#)



China to launch 3 taikonauts on Shenzhou-15 to space station as construction completes.

Source: [India Today](#)



European nations agree to boost space spending.

Source: [ET SATCOM](#)



Oneweb to use Airtel Africa to provide broad-from-space services in Africa.

Source: [The Economic Times](#)



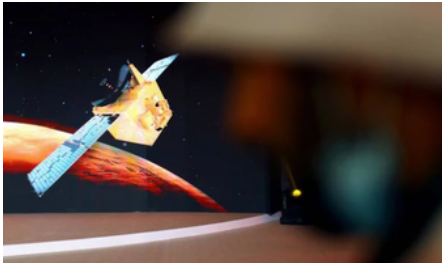
EU secures deal on satellite internet system.

Source: [The Print](#)



China has 6 astronauts in space for the 1st time

Source: [SPACE.COM](#)



Abu Dhabi Space Debate to advance dialogue on global space economy; India a key 'vibrant voice', says UAE

Source: [Money Control](#)



Japan extends ISS participation; Will launch its astronaut to build lunar space station

Source: [Republic World](#)



Britain issues first spaceport licence ahead of maiden satellite launch.

Source: [Indian Today](#)



NASA heads back to moon with Artemis I launch

Source: [NBC News](#)



Sierra Space Bolsters Human Spaceflight Center and Astronaut Training Academy Team

Source: [Business wire](#)

Job Openings from our Members



<https://agnikul.in/#/career>



<https://astrome.co/career/>



<https://www.dhruvaspace.com/careers>



<https://www.numer8.in/jobs>



<https://www.pixxel.space/careers>



<https://www.linkedin.com/company/skyserve-ai/jobs/>



<https://skyroot.in/career>



<https://tsctech.in/#/careers>

MeitY releases Digital Personal Data Protection Bill 2022

<https://www.meity.gov.in/content/digital-personal-data-protection-bill-2022>

TRAI releases recommendations on Licensing Framework for Establishing and Operating Satellite Earth Station Gateway (SESG)

<https://www.trai.gov.in/notifications/press-release/trai-releases-recommendations-licensing-framework-establishing-and>

TRAI releases recommendations on "Regulatory Framework for Promoting Data Economy Through Establishment of Data Centres, Content Delivery Networks, and Interconnect Exchanges in India"

<https://www.trai.gov.in/notifications/press-release/trai-releases-recommendations-regulatory-framework-promoting-data>

Upcoming Events

13-14th December 2022

India SatCom 2022

11-13th January 2023

International Workshop on Space Situational Awareness & Space Traffic Management

18th January 2023

2nd ISpA-VIF Interactive Think-Tank on Space

13-17th February 2023

Aero India 2023

CALL FOR NEW MEMBERSHIP

ISpA is an apex, non-profit industry body exclusively working towards the successful exploration, collaboration, and development of the private and public Space Industry in India.

JOIN US

- Participate in policy advocacy
- Networking and publicity opportunities
- Plethora of opportunities to advance your Business in Space Sector
- Multisectoral Partnerships
- Engagement with industry and defence experts via diverse platforms
- Access to industry-related information via reports and newsletters
- Be a part of ISpA Committees to bring expertise & interests and to guarantee the holistic development of the space sector.