

PARLIAMENT QUESTION: SPACE TECHNOLOGY SUPPORT FOR ANDHRA PRADESH

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The following space application projects are executed for Andhra Pradesh with technical support from ISRO, during the last five years:

Agriculture:

- i. Satellite-based monitoring of crop sown area and harvest area progression
- ii. Cropped area & yield maps for rice crop
- iii. Generation of crop sown area maps using SAR data by the end of August
- iv. Agricultural drought vulnerability assessment at mandal level
- v. Yield Estimation based on Technology (YES-TECH) under PMFBY
- vi. High resolution satellite data for AgriStack project of MoA&FW

Fisheries:

The Department of Fisheries with the technology developed by ISRO using NavIC and communication satellite rolled out the Vessel Communication and Support System (VCSS) project under Pradhan Mantri Matsya Sampada Yojana (PMMSY) to provide two-way communication between fisherman on boat and control room in the coastal state including Andhra Pradesh.

Disaster management support:

- i. Near-real time mapping, monitoring & damage assessment of major disasters like floods, cyclones, forest fire
- ii. Preparation of Flood Hazard zonation atlas using 21 years' of flood inundation data
- iii. Dissemination of flood alerts with 2-day lead time for floods in Godavari river
- iv. Customized geoportal for disaster management for the State, including mobile application, and training program on space applications for AP state disaster management officials
- v. Installation of two lightning detection sensors and Taluka level lightning hotspot assessment

Urban planning:

- i. Implementation of Bhuvan WebGIS and mobile application for the State Housing Corporation towards geotagging of houses, enabling monitoring of the construction & repair works
- ii. Provision of Application Programme Interface (API) to the Centre for Good Governance, Govt. of Andhra Pradesh

Tele-education & Tele-medicine:

Department of Space continues to support tele-education and tele-medicine network by providing satellite capacity and technical assistance.

Water resources:

- i. Mapping and inventory of wetlands
- ii. Coastal water quality assessment
- iii. Urban waterbody information system for three water bodies per town, covering 33 AMRUT towns
- iv. Monitoring of 376 watershed projects in PMKSY-WDC 1.0 and 59 projects in PMKSY-WDC 2.0

In addition to above, the following space application projects are carried out for Andhra Pradesh with technical and financial support of National Remote Sensing Centre (NRSC), ISRO:

- i. Land Cover Land Use at annual (1:250,000 scale) & five-yearly cycles (1:50,000 scale)
- ii. Space based Information Support for De-centralised Planning- Update (SIS-DP-Update) project.

Fund Allotment and Utilisation:

(for last 5 years)

Project Name	Fund Sanctioned (Rs. Lakhs)	Fund Disbursed (Rs. Lakhs)	Fund Utilized (Rs. Lakhs)
Space Based Information for Decentralized Planning – Update (SISDP-U) (completed)	118.95	118.95	118.95
Land cover and land use mapping at 1:50 000 Scale (5-Year Cycle) (ongoing)	106.66	42.67	42.67
National Wetlands Inventory and Assessment (completed)	31.25	31.25	31.25

The Non-Governmental Entities (NGEs) wise list of startups, companies, MSMEs and academic institutions indicating their names, locations and activities, from Andhra Pradesh approached to IN-SPACe is attached at **Annexure**.

IN-SPACe has conceptualized Seed Fund scheme under which 5 funding opportunities have been announced. Out of this one start-up namely M/s Nspace Tech India Pvt. Ltd., Tenali, Andhra Pradesh, has been selected for mentorship. Further, the company has been facilitated by IN-SPACe for availing access to the ISRO facilities for testing their SwetchaSat V0 satellite and also authorization granted for establishment and operation of hosted payload, till date.

This information was given by the Minister of State for Personnel, Public Grievances & Pensions and Prime Minister's Office Dr. Jitendra Singh in a written reply in the Rajya Sabha today.

NKR/NM

Annexure

List of NGEs i.e., Startups, Companies, MSMEs and Academic institutions from Andhra Pradesh approached to IN-SPACe

Sl. No.	Name of NGEs	Type	Location	Activities
1	National Institute of Technology Warangal	Academia	Warangal	Academics
2	V R Siddhartha Engineering College	Academia	Vijayawada	Academics
3	Charan Aerospace	Industry	Visakhapatnam	Manufacture of launch vehicles
4	NPHSAT Systems Pvt Ltd	Industry	Vijayawada	Developing Antennas for Small and Large Satellites
5	Rameshs Aerospace Products and Services Pvt Ltd	Micro and Small Enterprises	Vijayawada, Andhra Pradesh	Manufacture and supply of Ablative and Structural composites for Space and Defence applications.
6	Aarshadhaatu Green Nanotechnologies India Pvt Ltd	Micro and Small Enterprises	Guntur	The Company focuses on eco-friendly synthesis routes, scalable production, and translational research for industries ranging from defence and aerospace to energy storage, healthcare, and environmental applications.
7	Taramandal Technologies Pvt Ltd	Startup	Visakhapatnam	Taramandal vision is to lead the orbit with a sustainable orbital environment where private industry, human spaceflight, and research can all flourish and where all space assets are either reused or deorbited.
8	Red Balloon Aerospace Private Limited	Startup	Vijayawada	Red Balloon Aerospace is a deep tech aerospace startup developing next generation of high altitude platforms that bridge the critical gap between satellites and UAVs. Headquartered in Ratan Tata Innovation Hub APIS, Andhra Pradesh, India.

Sl. No.	Name of NGEs	Type	Location	Activities
9	Raudranex Space Technologies	Startup	Visakhapatnam	The company focuses on Electric Propulsion Technologies that make space logistics and deep-space exploration practical, scalable, and sustainable.
10	BES Space	Startup	Vijaywada Andhra Pradesh	The company is in Space domain like 1) SAFER- Space Anomaly Forensics and Environmental Resolutions. 2)SWAT - Space Warfare Analysis Tool 3) SHIVA - Space Highest Information Value Assessment 4) Global Data, AI/ML , Data Privacy enabler tools
11	N Space Tech India Private Limited	Startup	Tenali Andhra Pradesh	N Space Tech is a startup that focuses mainly on space research and space technology.
12	Sanketa Sravana LLP	Startup	Vijayawada, Andhra Pradesh	Providing radiation shielding solutions in the space industry.
13	The Spark of Wisdom	Startup	Warangal, Andhra Pradesh	The main activities are Research and Development Space Mining, extraction of material from asteroids and other minor planets. It could be a way to supply earth and space colonies with materials including metals and minerals like iron, nickel, magnesium, water, oxygen, gold and platinum. Asteroid mining could also help solve earths problems with resource depletion and carbon pollution.
14	Talelabs Space Innovations	Startup	Visakhapatnam	Aerospace and Aviation Component Manufacturing

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