

**List of Shortlisted Proposals (First level) to be called for the presentation
(Second level review) for “ Geospatial Technology Development' Sub-
schemes of NGP-DST**

S. No.	TPN No.	Project Title	Investigator	Institute
1	64939	UAV and Satellite Data Based Avalanche/Crevasse Mapping and Prediction Modelling through Machine Learning Applications for Siachen Glacier and Adjoining Region	Prof. Arvind Chandra Pandey	CENTRAL UNIVERSITY OF JHARKHAND
2	65457	Leveraging Geospatial Data for Demand Attentive 5G Networks	Dr. Sudip Biswas	INDIAN INSTITUTE OF INFORMATION TECHNOLOGY GUWAHATI (IIITG)
3	64469	Micro and Macro Data Intelligent Fusion for Sustainable Water Management System	Prof. Rajiv Gupta	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
4	65459	Optimizing spectral pre-processing and machine learning techniques to predict carbon mineralization in soils and nutrient stress in crops using UAV and proximal sensing	Dr. R. K. Setia	PUNJAB REMOTE SENSING CENTRE
5	65478	Big Data Analytics for Geospatial Applications Big-GEOAPP	Dr. Sonali Agarwal	INDIAN INSTITUTE OF INFORMATION TECHNOLOGY ALLAHABAD
6	65048	Hyperspectral Unmixing techniques for Mineral Resource exploration and evaluation	Dr. Hitendra Sarma Thogarcheti	VASAVI COLLEGE OF ENGINEERING
7	65141	GEL-IoT Geospatially Enabled Learning approaches for Intelligent IoT	Dr. Aryadevi Remanidevi Devidas	AMRITA VISHWA VIDYAPEETHAM AMRITAPURI CAMPUS

		based water quality monitoring		
8	65426	Drone/UAV based Multi Sensor High Quality Precision Photogrammetry Laser Mapping and Data Capture, Processing for Geo-Spatial Platforms	Dr. Kovvur Ram Mohan Rao	VASAVI COLLEGE OF ENGINEERING
9	65484	Predicting economic indicators using interpretable deep consensus model: An Application to Indian Villages	Dr. Tutan	INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, KHARAGPUR
10	64831	Rendering Temporal Dynamics of Alternative Land Use Scenarios for Small Holders Employing Geo-Visualized Virtual Reality based Serious Games	Prof. Arun Khosla	DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR
11	65037	Synthesis of movable monostatic radar mapping system for soil moisture retrieval	Dr. Rajendra Prasad	IITBHU VARANASI
12	65425	HSI Sensor Hyperspectral Imaging System Development for Precision Remote Sensing Applications	Prof. Rama Rao Nidamanuri	INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY
13	65452	A Cloud Computing System for Classification and Visualization of Large-scale UAV LiDAR Point Clouds	Dr. Jaya Sreevalsan Nair	INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE
14	65004	Development of a Multi-scale, Open Source based Geospatial Analysis and Decision Platform for Effective Forest Management	Dr. Rama Chandra Prasad	INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY

15	64864	Accuracy Assessment and Optimization of the Photogrammetric Process Variables for Mapping using Drones.	Dr. Shishir Gaur	INDIAN INSTITUTE OF TECHNOLOGY, BHU , BANARAS HINDU UNIVERSITY, VARANASI, VARANASI,
16	65102	Channel State Information based Joint Localization and Activity Recognition using Deep Learning Methods	Dr. Sudhir Kumar	INDIAN INSTITUTE OF TECHNOLOGY PATNA
17	65114	Design and development of a remotely operated robot for NDVI data acquisition in wheat field.	Mr. Vibin V	CENTRE OF EXCELLENCE IN FARM MACHINERY, CSIRCENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE
18	64920	UAV based High Resolution Nearshore Coastal Relief Mapping for Cyclone Prone Districts and its Application for Inundation Modelling A pilot-scale study	Prof. RAAJ Ramsankaran	INDIAN INSTITUTE OF TECHNOLOGY BOMBAY, MUMBAI
19	65111	Automatic guided weeding tool based on plant Geo-positions for Organic Farming Mechanization	Mr. Jagdish M	CENTRE OF EXCELLENCE IN FARM MACHINERY, CSIRCENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE, LUDHIANA
20	64978	Geospatial Data Science Framework for Prescriptive Analysis of Epidemiology in Healthcare	Ms. Sreedhanya L R	CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING, THIRUVANANTHAPURAM
21	65112	Deep Learning for Geospatial Data Management & Storage	Dr. Surendra Nadh Somala	INDIAN INSTITUTE OF TECHNOLOGY, HYDERABAD
22	65090	Development of a field scale crop monitoring system through satellite and UAV data fusion	Dr. Eswar Rajasekaran	INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

23	65076	Web and GIS-enabled decision support system for optimal irrigation scheduling through improved soil moisture forecasting using machine learning and remote sensing	Dr. Ashutosh Sharma	INDIAN INSTITUTE OF TECHNOLOGY ROORKEE, UTTARAKHAND
24	65126	Precision Forestry: Digital inventory of woods through UAV LiDAR	Dr. Ramiya A M	INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY, THIRUVANANTHAPURAM
25	64956	AI-based synthesization of high resolution DEM using multi-source elevation data	Dr. Divyesh Varade	INDIAN INSTITUTE OF TECHNOLOGY JAMMU
26	64970	Hyperspectral multi-platform data capture system development	Dr. Chirag Patel	A D PATEL INSTITUTE OF TECHNOLOGY
27	64461	Developing Deep Learning Based Methods for Spatial Informatics in Urban Land Use and Transportation Integration	Dr. Bharath Haridas Aithal	INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR
28	65050	An integrated processing system using multi-sensor-multi-platform LiDAR systems integrated with a camera for management of forestry and urban tree inventories.	Prof. Salil Goel	INDIAN INSTITUTE OF TECHNOLOGY KANPUR
29	64823	Investigating Multi-Objective Navigational Systems for Path-Finding Queries over Urban Transportation Infrastructure	Dr. Venkata Maruti Viswanath Gunturi	IIT ROPAR
30	64729	Development of Low-cost GNSS RTK Base for Precise Geolocation and	Dr. Anindya Bose	THE UNIVERSITY OF BURDWAN

		Handheld Precise Geolocation Enabled Multi-Sensor Rover System HGS		
31	64520	Development of UAV-based near real-time surface fire detection and delineation system for coal mining and forest regions	Dr. Amit Kumar Gorai	NIT ROURKELA
32	65107	Building 3D Models for Sensitive Areas for Better Surveillance Study area Ahmedabad River Front and Narendra Modi Stadium	Dr. Nitika Bhakuni	CEPT UNIVERSITY
33	65015	An Innovative Geospatial framework for Precision Agriculture- Leveraging the Synergy of Satellite and Drone imagery, Artificial Intelligence, Big data and Cloud Computing	Dr. Menaka Chellasamy	PUSHKARAM COLLEGE OF AGRICULTURE SCIENCES
34	65053	3D Building Infraction Detection Using UAV and Machine learning	Dr. JAYANTA KUMAR GHOSH	INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
35	65040	MULTI ROBOT SYSTEM BASED GEOSPATIAL DATA ACQUISITION, MAPPING AND ANALYSIS IN AGRICULTURE 4.0	Dr. ABHRA ROY CHOWDHURY	INDIAN INSTITUTE OF SCIENCE BANGALORE
36	64926	Scalable Co-location Pattern Mining over Geo-spatial Data	Dr. Vikram Goyal	INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY
37	64598	Developing IoT-Cloud Framework and AI Techniques for Geospatial and	Dr. Sarbani Roy	JADAVPUR UNIVERSITY

		Temporal Analysis of Air Pollution		
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