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Date: 17 APR 2025, 12:30 PM
Purchased By:
DR. GADDAM NARESH REDDY
S/o GADDAM BHOOMALAH
R/o HYDERABAD
For Whom
OSMANIA UNIVERSITY



D.KAMALA DEVI
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Ph 9393013853

**Memorandum of Understanding (MoU)
Capacity Building and Collaborative Research in**

Remote Sensing Technologies

Between

**Osmania University,
Hyderabad, Telangana
and**

**National Remote Sensing Centre
ISRO, Department of Space, Govt. Of India
Balanagar, Hyderabad-500037**

**Telangana
Signed on:**

14th day of May 2025.

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Memorandum of Understanding

Capacity building and Collaborative Research in Remote Sensing Technologies

	<p>This Memorandum of Understanding (hereinafter called the "MoU") is made on the day of..... 2025, between the NRSC, Indian Space Research Organization (ISRO), Department of Space, Government of India Hyderabad, Telangana (hereinafter called the NRSC'), as the 1st party and Osmania University, Hyderabad, Telangana state as the 2nd party.</p> <p>Now, therefore, in consideration of terms and conditions contained herein, the parties hereto agree as follows:</p>
1	Preamble
(i)	National Remote Sensing Centre (NRSC)
	<p>NRSC is one of the primary centers of ISRO, Department of Space (DOS). NRSC has the mandate for establishment of ground stations for receiving satellite data, generation of satellite data and geospatial products, dissemination to the users, and development of techniques for remote sensing applications including disaster management support, geospatial services for good governance and capacity building for professionals, faculty and students. NRSC operates through multiple campuses to meet national and regional remote sensing data and applications needs of the country. Five Regional Centers, called as Regional Remote Sensing Centers (RRSCs), located at Bengaluru, Jodhpur, Kolkata, Nagpur and New Delhi cater to outreach of the geospatial technology and its applications, and promotion and capacity building of the people in the country. Considering the ever-increasing demands of stakeholders/ users towards use of geospatial technology, NRSC has established Training & Outreach facilities at its Jeedimetla Campus in Hyderabad and also at its five Regional Centers.</p>
(ii)	Osmania university, Hyderabad
	<p>Osmania university, Hyderabad is the seventh oldest in India, the third oldest in south India and the first to be established in the erstwhile princely state of Hyderabad. Throughout its existence of over eight decades, it has shown remarkable progress and sustained and integrated development of all faculties. It has significantly contributed to the academic and economic development of not only the region but also of the country. Its alumni have distinguished themselves nationally and internationally in various spheres of life and are spread far and wide around the world.</p>

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2	Purpose/Need for MOU				
	The use of geospatial technology has been on the rise in recent times by various government organizations and non-governmental entities across the country. It is an important technology to analyze, plan and derive solutions for the development of society, infrastructure, disaster and environmental management. There is a large emphasis by ISRO for outreach and capacity building in the areas of Remote sensing, geospatial technology and its applications. NRSC has the mandate to promote enhanced utilization of Geospatial data across all sectors and all segments of society.				
3	Parties involved in MOU				
	First party: NRSC (on behalf of President of India)				
	National Remote Sensing Centre, ISRO, Dept. of Space, Govt. of India Balanagar, Hyderabad-500037 Telangana, India				
	Second Party : Osmania University				
	Osmania university, Hyderabad Amberpet, Hyderabad-500007 Telangana, India				
4	Authorised signatories				
	First Party (on behalf of President of India)		Second Party		
	National Remote Sensing Centre, Indian Space Research Organisation (ISRO), Dept. of Space, Govt. of India Balanagar, Hyderabad-500037 Telangana, India		Osmania University, Hyderabad Amberpet, Hyderabad-500007 Telangana, India		
5	Functionaries and Contact Details				
	First Party: NRSC (on behalf of President of India)				
	Sl. No	Name	Contact address	Telephone	e-mail
	1.	Dr. N.Aparna	DD, MSA, NRSC	04023884011	aparna_n@nrsc.gov.in ddmsa@nrsc.gov.in
	2.	M A Fyzee	GD,TEOG, NRSC	04023884533	fyzee_ma@nrsc.gov.in gd_teog@nrsc.gov.in
	3.	Dr. R Srinivas	Head SPOD, TEOG, NRSC	04023884824	srinivas_r@nrsc.gov.in
	Second Party: Osmania University				
	Sl.	Name	Contact address	Telephone	e-mail

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	1.	Prof. Gaddam Naresh Reddy	Registrar, Osmania University	040-8331997200	registrar@osmania.ac.in
	2.	Prof. P. Naveen Kumar	Nodal Officer & Professor, Electronics and Communication Engineering, Univ. College of Engineering Osmania University	9985701254	drnaveenkumarp9@osmania.ac.in
6	Date of Signing, Effective Date and Duration of MOU				
	Date of signing: The date of signing in MOU shall be the date on when both parties sign the document.				
	Effective date: The effective date of MOU is the date of signing the MoU				
	Duration of MoU: This Memorandum of Understanding is operative initially for a period of five years from the date of signing the Memorandum of Understanding. Later, Renew after (5) five years and extension of contract shall be as per mutual consent. It can be terminated by either party by giving a written notice of 60 days. The termination of this MoU shall not affect the validity and duration of any arrangements, agreements, programs, activities, and projects made under this MoU until completion of such arrangements, agreements, programs, activities and projects.				
7	Scope of Work				
	The main purpose of the MoU is to build the capacity of the officials of Osmania University. The scope of work encompasses the following:				
	First party: NRSC				
	<ol style="list-style-type: none"> 1. To offer student projects for B.E, M. Tech, Ph.D. students of Osmania University. 2. To facilitate students of Osmania University for industrial visits 3. To provide research opportunities at NRSC campus for OU PhD Students. 4. To organize Antarctica live interaction at Osmania University during important events based on availability. 5. To collaborate with OU in Joint Research activities. 				
	Second party: OSMANIA UNIVERSITY				

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1. To telecast important Outreach activities of NRSC through Osmania TV channel and Osmania TV YouTube Channel.
2. To design and develop content required for outreach promotional activities to be telecasted through Osmania TV. The raw content and material will be provided by NRSC.
3. To organize joint certified programs, Joint workshop, Seminars, Trainings on important events and occasions along with NRSC.
4. To facilitate NRSC Scientists as External PhD guides for OU PhD Students as per Osmania University rules and regulations
5. To provide admission into PhD Programme for NRSC scientists / Engineers as per Osmania University rules and regulations (Corporate)

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8	Nodal Officer and Point of Contact from NRSC/ISRO
	Dr R Srinivas, Head SPOD, TEOG, NRSC, ISRO, Hyderabad
	Nodal Officer and Point of Contact from Osmania University
	Dr. P. Naveen Kumar, Professor, Dept. of Electronics & Communication Engineering, Univ. College of Engineering, OU
9	Data Handling
	The data/information shall be archived and shared as per prevailing Indian Space Policy-2023 and National Geospatial Policy-2022. Both parties shall follow the Data Security policy of ISRO.
10	Applicable documents
	<ul style="list-style-type: none"> • National Geospatial Policy-2022 • Indian Space Policy-2023
11	Guidelines on data / security
	<ul style="list-style-type: none"> • Prior permission from both the parties is required for publishing any research work. • The concerned NRSC/OU personnel will be co-authors in the publications and vice versa • Sharing data/ information is not permitted with any 3rd party.
12	Consideration and Schedule of prices
	Both the parties shall bear all costs relating to their own staff, transportation, office establishment etc. associated with the activities as laid out at points of understanding in preceding paragraphs.
13	Training
	Suitable training towards the data downloading, processing and analysis will be provided to the identified persons of the 1 st and 2 nd parties by the experienced resource persons of both the Parties.
14	Activity Monitoring
	Periodical monitoring of the assigned activities will be followed up by internal monitoring mechanism at NRSC and also OU.
15	Confidentiality

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"All information and documents to be exchanged pursuant to the Memorandum of Understanding will be kept confidential by the Parties and will be used subject to such terms as each Party may specify. The Parties will not use the information for purposes other than that specified, without the prior written consent of the other Party.

All the parties will maintain utmost confidentiality in data sharing. Both partners undertake, during the tenure of the MOU and thereafter, on their behalf and on behalf of their employees/representatives/associates to maintain strict confidentiality and prevent disclosure thereof all the Information and data exchange/ generated pertaining to work, under this agreement/MOU. However, the data can be published and shared jointly for

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	<p>scientific publication with mutual written consent of both the parties</p> <p>All Confidential Information shall remain the exclusive property of the disclosing Party. The Parties agree that this MoU and the disclosure of the confidential information do not grant or imply any license or interest or right to the Recipient in respect to any intellectual property right of the other Party.</p> <p>Unpublished information, whether oral, in writing or otherwise, discovered or conceived by the scientists or technicians and exchanged under the provisions of this MoU will not be transmitted to a third party, unless otherwise agreed by the Parties.</p>
16	<p>Intellectual Property Rights</p> <p>The Intellectual property that is (know-how/process/design/technique/ copyrights) generated in the Programme executed shall be owned by the respective parties depending on their respective contributions. Wherever, any of the above work executed in a collaborative way, the extent of the ownership shall be decided mutually, depending on the relative inputs (intellectual/ technical/ financial/physical) made by the parties here to the Programme.</p> <p>All disputes concerning intellectual property rights and other commercial rights arising out of any activities performed under this MoU or agreement related thereto shall be settled through mutual deliberations in terms of applicable laws.</p> <p>NRSC and Osmania University are the joint holders of intellectual property like derived data, documents generated etc.</p>
17	<p>Commercialization</p> <p>In case of research results obtained through joint activities under this MOU concerned Parties will apply as co-applicants for the protection of intellectual property rights in India. Commercialization in any other country shall be done jointly through a separate agreement.</p>
18	<p>Publication</p> <p>Any Publication, document and/or paper arising out of joint work conducted by the parties on to this MOU will be jointly owned. The publications (research papers, reports etc.,) shall be in the names of research workers, wherein it will be duly acknowledged that the work has been carried out under collaborative programs between the parties. However, the data can be published and shared jointly for scientific publication with mutual consent of both the parties involved in the respective projects. The use of the name, logo and/or official emblem of the parties on any publication, document and/or paper will require prior permission of both the parties. It may however be ensured that the official emblem and logo is not misused.</p> <p>Notwithstanding anything contained in this agreement/MOU or any document related thereto, all the differences or disputes including publication related disputes concerning</p>

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	intellectual property rights arising out any activities performed under this agreement/MOU shall be settled through mutual deliberations or procedures established under applicable laws and Rules made there under.
19	Modifications to MOU
	The collaboration is made after detailed discussions. However, if any change in scope of work or modifications w.r.t. to duration of MoU/ Technical issues/ Deliverables etc. are required, the same will be done through mutual written consent from concerned parties and the same will be treated as amended to this MoU. The modifications/ changes shall be effective from the date on which they are made, unless otherwise agreed upon.
20	Governing Law
	This MOU is hereby concluded in terms of understanding of the parties about the law of MOU and intended to regulate by relevant applicable Indian laws, policy and conventions.
21	Force Majeure
	Neither party shall be held responsible for non-fulfilment of their respective obligations under the agreement due to the exigency of one or more of the unforeseen events such as but not limited to Acts of God, war, flood, earthquake, strike, lockouts, epidemics, riots, civil commotion etc. provided on the occurrence and cessation of any such events, the party affected thereby shall give a notice in writing to other party within one month of such occurrence or cessation. If the force-majeure conditions continue beyond six months, the parties shall then mutually decide about the future course of action.
22	Indemnity
	Either Party ("Indemnifying Party") shall indemnify and keep indemnified the other Party ("Indemnified Party") against any and all claims, direct losses, injuries, liabilities, reasonable costs and expenses, direct damages, actions or proceedings which may be made or taken against the Indemnified Party by any person arising out of any breach, action or inaction of the Indemnifying Party under this agreement. In no event whatsoever, the Indemnifying Party shall be liable to the Indemnified Party for any loss of revenue, loss of profits, rights or services, incidental, indirect or consequential damages arising from or related to this agreement.
23	Dispute Settlement Mechanism
	In case of any dispute or difference of opinion or interpretation of the MOU arising out of the activities performed under the provisions of this contract or related document not amicably resolved completely by mutual discussion or consultation between the parties within thirty days (30), the entire matter shall be referred to the Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD) for settlement of any such commercial disputes and the procedure mentioned in the Office Memorandum Dated 22 nd May, 2018 and others OM subsequently issued by Department of Public Enterprises,

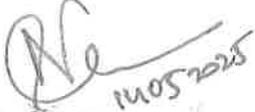
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	<p>Ministry of Heavy Industries & Public Enterprises shall apply in consonance with applicable Indian laws and public policy.</p> <p>Notwithstanding anything contained in above para, in case of any dispute or difference of opinion falling under the exception to the ambit of Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD) the party to this contract/agreement/MOU with mutual consent may take recourse of any alternative dispute settlement mechanism including arbitration for settlement of such disputes as per applicable law and procedure.</p> <p>Pending the submission of and / or decision on a dispute, difference or claim or until the arbitral award is published; the parties shall continue to perform all of their obligations under this MOU without prejudice to a final adjustment in accordance with such award</p>
24	Jurisdiction
	Any dispute arising out of the implementation or interpretation of any provisions of this MOU shall be subject to the jurisdiction of Hyderabad court.
25	Termination: (for Cause, Convenience, and Force Majeure)
	<p>On completion of MOU duration, as stated in the clause No. 5, the MOU ceases to exist. During the tenure of the agreement, either Party may terminate and nullify this Agreement/MOU by providing prior written notice of 30days to the other party for any of the reasons -Cause/convenience/Force Majeure.</p> <ul style="list-style-type: none"> • Termination for Convenience: For convenience without assigning any reason. • Termination for Cause: For the breach of any obligations/responsibilities/conditions of this agreement by the other party, with an opportunity to cure/rectify such a situation within thirty (30) days to the defaulting party and no remedial action is taken to the satisfaction of the aggrieved party. • Termination for Force Majeure: in the event of "Force Majeure" • Obligations upon Termination <p>Following termination or expiration of this Agreement, in addition to any other obligations existing hereunder or otherwise at law or in equity:</p> <ul style="list-style-type: none"> • The rights and obligations of the parties thereto shall be settled by mutual discussion; the financial settlement if any shall take into consideration not only the expenditure incurred but also the expenditure committed by the parties hereto. • The agreement arrived at between the parties hereto for the utilization of the intellectual property (defined in clause #15.0) shall survive the termination of the agreement.

26. Seal of parties

IN WITNESS WHEREOF, the parties hereto have signed this agreement on the day, month and year herein before mentioned.

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First Party	Second Party
<p>For and on behalf of President of India</p> <p>Deputy Director , MSA NRSC, Hyderabad</p>	<p>For and on behalf of</p> <p>Registrar OSMANIA UNIVERSITY Hyderabad.</p>
<p>Signature</p>	<p>Signature </p>
<p>Seal</p> <p> डॉ. एन. अपर्णा / Dr. N. APARNA डीडी, एमएसए / DD, MSA</p>	<p>Seal</p> <p>REGISTRAR Osmania University, Hyderabad – 500 007. Telangana State, India</p>
<p>Witness (Name and Address)</p> <p> 1. Dr.K. Chandrasekar, Group Director, PPEG, NRSC, ISRO</p> <p> 2. Dr R Srinivas Head SPOD, TEOG, NRSC, ISRO</p>	<p>Witness (Name and Address)</p> <p> 1. Prof. S.Jithender Kumar Naik OSD to VC, OU</p> <p> 2. Prof. P. Naveen Kumar Professor of Dept. of ECE, UCE, OU</p>