



## Memorandum of Understanding (MoU)

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### Collaboration in Education, Research and Development & Sharing of Resources

**Between**

Survey of India,  
Hyderabad, Telangana

**and**

National Remote Sensing Centre  
ISRO, Dept. of Space, Govt. of India  
Balanagar, Hyderabad-500037  
Telangana

*Signed on:*

15<sup>th</sup> day of September 2025.

## Mémorandum of Understanding

### Capacity building and Collaborative Research in Remote Sensing Technologies

This Memorandum of Understanding (hereinafter called the “MoU”) is made on the <sup>15<sup>th</sup></sup> day of <sup>September</sup> 2025, between the NRSC, Indian Space Research Organization (ISRO), Department of Space, Government of India Hyderabad, Telangana (hereinafter called the ‘NRSC’), as the 1<sup>st</sup> party and Survey of India (Sol), the National Survey and Mapping Organization under the Department of Science and Technology, Government of India (hereinafter called the ‘Sol’) as the 2<sup>nd</sup> party.

Now, therefore, in consideration of terms and conditions contained herein, the parties hereto agree as follows:

#### 1 Preamble

##### (i) National Remote Sensing Centre (NRSC)

NRSC is one of the primary centres 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 Centres, called as Regional Remote Sensing Centres (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 Centres.

##### (ii) Survey of India, Hyderabad

**Survey of India** (hereinafter referred to as “Sol”), the National Survey and Mapping Organization of the country under the Department of Science and Technology, is the oldest scientific department and has evolved with rich tradition over the years. In its assigned role as the nation’s Principal Mapping Agency, Survey of India bears a special responsibility to ensure that all resources contribute with their full measure to the progress prosperity and security of our country now and for generations to come. It is involved in wide areas of activities from defining the geodetic infrastructure of the country

	(both horizontal and vertical datum) to preparing topographic maps of the country and carrying out National development projects.
<b>2</b>	<b>Purpose/Need for MOU</b>
	<p>The National Geospatial Policy 2022 aims to promote the development and use of geospatial data and services, with the Survey of India playing a key role in providing high-quality geospatial data to support governance, economic development, and environmental management. 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 on outreach and capacity building in the area of geospatial technology and its applications. NRSC also has the mandate to promote enhanced utilization of Geospatial data across all sectors and all segments of society.</p> <p>Based on the shared vision in the broad area of Geomatics and Geospatial Technology, the Survey of India (Sol) and the National Remote Sensing Centre (NRSC) plan to collaborate with the objectives of:</p> <ul style="list-style-type: none"><li>(i) Promoting interaction in mutually beneficial R&amp;D areas</li><li>(ii) Providing training to Sol Officers and initiating closer academic interaction</li><li>(iii) Delivering guest lectures/expert lectures at the National Institute of Geoinformatics Science and Technology (NIGST) by the officers of NRSC.</li><li>(iv) Sharing of resources, data, expertise and research between Sol and NRSC</li></ul> <p>This MoU provides a formal basis for initiating interaction as per the expertise and logistics available with the parties and provides an institutional framework for an effective synergy in knowledge and/or resource-sharing environment.</p> <p><b>A. SCOPE OF MOU</b></p> <ul style="list-style-type: none"><li>i. Visits of faculty, students and technical staff of NRSC to NIGST, and Sol officers to NRSC in areas of mutual interest.</li><li>ii. Exchange of scientific and technical information as per prevailing norms of respective parties</li><li>iii. Collaborative research activities through participation in nationally and internationally funded projects. The financial requirements shall be worked out separately between the parties, based on the project.</li></ul>

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	<p>iv. Training of Sol officers in various areas of Geomatics /Geospatial Technology as per the expertise, facilities and resources available at NRSC. The financial requirements for each tailor-made training shall be worked out separately.</p> <p>v. Jointly organize events such as seminars, workshops, conferences and training programmes.</p> <p>vi. To provide technical guidance by NRSC for building state of art geospatial facilities at NIGST, Hyderabad for carrying out their operations as well as their training programmes.</p> <p>vii. Sharing of resources, data and expertise between Sol and NRSC. The respective institute policy, jurisdiction will prevail for data sharing.</p>			
<b>3</b>	<b>Parties involved in MOU</b>			
	<b>First party: NRSC(on behalf of president of India )</b>			
	National Remote Sensing Centre, ISRO, Dept. of Space, Govt. of India Balanagar, Hyderabad-500037 Telangana, India			
	<b>Second Party : Survey Of India</b>			
	Survey of India, Uppal Hyderabad-500039 Telangana, India			
<b>4</b>	<b>Authorised signatories</b>			
	<b>First Party(on behalf of president of India )</b>		<b>Second Party</b>	
	National Remote Sensing Centre, ISRO, Dept. of Space, Govt. of India Balanagar, Hyderabad-500037 Telangana, India		Survey of India, Uppal Hyderabad-500039 Telangana, India	
<b>5</b>	<b>Functionaries and Contact Details</b>			
	<b>First Party: NRSC(on behalf of president of India )</b>			
	<b>Sl. No</b>	<b>Name</b>	<b>Contact address</b>	<b>Telephone</b>
	1.	Dr. N. Aparna	DD,MSA, NRSC	04023884010
	2.	Dr. Jayasaxena	HEAD, SPID, NRSC	04023884806
				<b>e-mail</b>
				aparna_n@nrsc.gov.in n ddmsa@nrsc.gov.in
				jayasaxena@nrsc.gov.in

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<b>Second Party: Survey of India</b>				
<b>Sl. No</b>	<b>Name</b>	<b>Contact address</b>	<b>Telephone</b>	<b>e-mail</b>
1.	Shri G. Varuna Kumar	Additional Surveyor General, NIGST	040-27201503	iism.soi@gov.in
<b>6</b>	<b>Date of Signing, Effective Date and Duration of MOU</b>			
	<b>Date of signing:</b> The date of signing in MOU shall be the date on when both parties sign the document.			
	<b>Effective date:</b> The effective date of MOU is the date of signing the MoU			
	<b>Duration of MoU:</b> This Memorandum of Understanding is operative initially for a <b>period of five years</b> 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.			
<b>7</b>	<b>Scope of Work</b>			
	The scope of work encompasses the following:			
	<p><b>a. NRSC:</b></p> <p>Develop and conduct/execute Research Projects/Workshops and Training Programs of mutual interest in collaboration with Sol. The financial requirements shall be worked out separately between the parties, based on the project.</p> <p><b>b. Sol:</b></p> <p>Develop and conduct/execute Research Projects/Workshops and Training Programs of mutual interest in collaboration with NRSC.</p>			
	<b>GENERAL TERMS OF CO-OPERATION</b>			
	<ul style="list-style-type: none"> <li>• R&amp;D, paper publication will be encouraged. Research publications arising out of the joint research projects and other research activities will be jointly published IP from joint work will be managed as per IPR policy of NRSC and prevailing norms of Sol. They will be handled on case-to-case basis. Cost incurred for patenting purposes as well as royalties arising out of these shall be equally shared between the Parties.</li> <li>• Officers, faculty members, scientists, academic staff, research scholars, project staff and students of both the Parties shall have access to the instrumentation, laboratories, library and other infrastructure facilities at each other's institutions as per respective Institute's policy.</li> </ul>			

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	<ul style="list-style-type: none"><li>• There shall be an exchange of faculty members, officers, scientists and research scholars for research purposes, within the permissible rules of respective Institutes.</li><li>• This MoU shall be non-exclusive and both the parties are free to pursue other agreements or collaborations of any kind.</li><li>• Sharing of resources, data and expertise is encouraged. The respective institute policy, jurisdiction will prevail for data sharing.</li></ul>
<b>8</b>	<b>Data Holding</b>
	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.
<b>9</b>	<b>Applicable documents</b>
	<ul style="list-style-type: none"><li>• National Geospatial Policy-2022</li><li>• Indian Space Policy-2023</li></ul>
<b>10</b>	<b>Guidelines on data / security</b>
	<ul style="list-style-type: none"><li>• Prior permission from both the parties is required for publishing any research work.</li><li>• The concerned NRSC/Sol personnel will be co-authors in the publications and vice versa</li><li>• Sharing data/ information is not permitted with any 3<sup>rd</sup> party.</li></ul>
<b>11</b>	<b>Consideration and Schedule of prices</b>
	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.
<b>12</b>	<b>Training</b>
	Suitable training towards the data downloading, processing and analysis will be provided to the identified persons of the 1 <sup>st</sup> and 2 <sup>nd</sup> parties by the experienced resource persons of both the Parties.
<b>13</b>	<b>Activity Monitoring</b>
	Periodical monitoring of the assigned activities will be followed up by internal monitoring mechanism at NRSC and also Sol.
<b>14</b>	<b>Confidentiality</b>
	"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.

	<p>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 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 in writing.</p>
<b>15</b>	<b>Intellectual Property Rights</b> <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 Survey of India are the joint holders of intellectual property like derived data, documents generated etc.</p>
<b>16</b>	<b>Commercialization</b> <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>
<b>17</b>	<b>Publication</b> <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 written consent of both the parties involved in the respective projects. The use of the name, logo</p>

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	<p>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 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.</p>
<b>18</b>	<b>Modifications to MOU</b>
	<p>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.</p>
<b>19</b>	<b>Governing Law</b>
	<p>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.</p>
<b>20</b>	<b>Force Majeure</b>
	<p>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.</p>
<b>21</b>	<b>Indemnity</b>
	<p>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.</p>
<b>22</b>	<b>Dispute Settlement Mechanism</b>
	<p>In case of any dispute or difference of opinion or interpretation of the MOU arising out of</p>

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<sup>nd</sup> May, 2018 and others OM subsequently issued by Department of Public Enterprises, Ministry of Heavy Industries & Public Enterprises shall apply in consonance with applicable Indian laws and public policy.

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.

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

**23 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.

**24 Termination: (for Cause, Convenience, and Force Majeure)**

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.

- 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

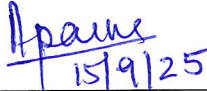

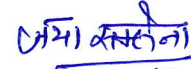
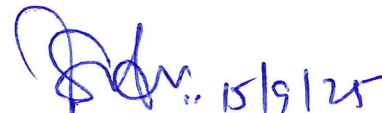


Following termination or expiration of this Agreement, in addition to any other obligations existing hereunder or otherwise at law or in equity:

- 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.

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25. Seal of parties

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

First Party	Second Party
For and on behalf of president of India  <b>Deputy Director</b> Management Systems Area National Remote Sensing Centre (NRSC/ ISRO), Hyderabad	For and on behalf of  <b>Additional General Surveyor</b> Survey of India Uppal Hyderabad Telangana, India
Signature  15/9/25	Signature  15/09/2025
Seal  डॉ. एन. अपर्णा / Dr. N. APARNA डीडी, एमएसए / DD, MSA	Seal  जी. वरुण कुमार/G. VARUNA KUMAR अपर महासर्वेक्षक/Additional Surveyor General रा.भू.सू. वि. एवं प्रो.सं./N.I.G.S.T. भारतीय सर्वेक्षण विभाग/Survey of India उप्पल, हैदराबाद/Uppal, Hyderabad-39.
Witness (Name and Address)  1. Dr Jaya Saxena, Head, SPID/T&OG/MSA  15/09/2025  2.  15/9/25 (P. SATYANARAYANA)	Witness (Name and Address)  1.  15/09/25  2.  15/9/25