



Golden Jubilee
1976-2026

Second Announcement

NATIONAL SEMINAR

 **October 07 – 09, 2026**

 Software Technology Parks of India (STPI),
Plot-5/1, Block-DP, Sector- V,
Salt Lake, Kolkata -700 091

**Soil Data to Solutions:
Transferring Soil Management for
Resilient Agriculture and Food Security**

Organized by:

**Indian Society of Soil Survey
& Land Use Planning (ISSLUP)**

In Collaboration with:

**ICAR-National Bureau of Soil Survey
and Land Use Planning
Regional Centre, Kolkata – 700 091**



For more details please visit:

www.isslup.in



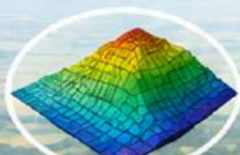
REMOTE SENSING



GIS



SOIL PROFILE



DSM



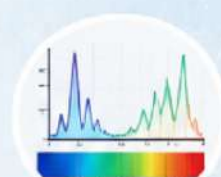
AI / ML



SOIL ECOSYSTEM
SERVICES



SOIL CARBON
SEQUESTRATION



SPECTROSCOPY



HYPERSPECTRAL



PRECISION
AGRICULTURE



LAND DEGRADATION
ASSESSMENT



About Indian Society of Soil Survey & Land Use Planning (ISSLUP)

- ▶ The **Indian Society of Soil Survey & Land Use Planning (ISSLUP)** is a professional scientific society committed to advancing soil survey, soil resource assessment, land evaluation, and scientific land use planning in India.
- ▶ The Society provides a platform for soil scientists, land resource specialists, agronomists, geospatial experts, and other professionals to exchange **knowledge**, share research, and promote sustainable management of soil and land resources.
- ▶ ISSLUP promotes the application of modern technologies such as **remote sensing, GIS, digital soil mapping, AI, ML, spectroscopy, and geospatial modelling** for improved soil resource characterization and land use planning.
- ▶ Through seminars, conferences, training programmes, publications, and collaborations, the Society translates soil information into practical solutions for **sustainable agriculture, land degradation management, soil carbon sequestration, ecosystem services, climate resilience, and food security**.



Background of the National Seminar



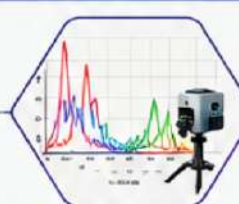
Conventional Soil Survey



Remote Sensing & GIS



Digital Soil Mapping (DSM)



Spectroscopy & Hyperspectral



AI, ML & IoT

- ✓ Spatially explicit soil information enables **precision agriculture**, site-specific input management, and climate-smart agriculture.
- ✓ Integrated datasets help identify land degradation hotspots, monitor restoration, and assess progress towards **SDG Indicator 15.3.1** and **Land Degradation Neutrality (LDN)**.
- ✓ High-resolution soil data support key **soil ecosystem services** such as carbon storage, nutrient cycling, water regulation, and biodiversity conservation.
- ✓ Emerging technologies enable **rapid data acquisition**, spatial prediction, real-time monitoring, and predictive analytics.
- ✓ These integrated systems contribute to **SDG 2, SDG 12, SDG 13 and SDG 15**, strengthening resilient agriculture, ecosystem conservation, climate action, and long-term food security.



Contribution to Sustainable Development Goals (SDGs)

2 ZERO HUNGER



Sustainable agriculture and food security

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Efficient resource use and sustainable production

13 CLIMATE ACTION



Climate action and carbon sequestration

15 LIFE ON LAND



Life on land and ecosystem conservation

SEMINAR THEMES AND SUB-THEMES

The seminar will focus on the following three major themes and associated sub-themes



THEME 1: SOIL DATA GENERATION AND DIGITAL CHARACTERISATION OF LAND RESOURCES



1 Land Resource Inventory, Digital Soil Mapping and Soil Data Systems

- Conventional and digital land resource inventories
- Soil surveys, databases, and spatial soil information systems
- Spatial prediction of soil properties and functions



2 Spectroscopy and Hyperspectral Technologies for Soil Assessment

- Visible-NIR-SWIR spectroscopy for soil property assessment
- Hyperspectral imaging for mapping soil organic carbon, nutrients, and degradation indicators



THEME 2: DATA-DRIVEN SOIL INTELLIGENCE USING AI, ML AND SMART TECHNOLOGIES



3 Artificial Intelligence and Machine Learning in Soil Science

- AI/ML models for soil property prediction
- Explainable AI for soil management decisions



4 Internet of Things (IoT) and Real-Time Soil Monitoring

- Smart soil monitoring networks for irrigation and nutrient management
- Integration of sensor data with decision support systems



5 Precision Agriculture and Site-Specific Soil Management

- Precision soil management for improved resource-use efficiency
- Site-specific management of nutrients, water, and other agricultural inputs



THEME 3: SOIL-BASED SOLUTIONS FOR RESILIENT AGRICULTURE, CARBON SEQUESTRATION AND FOOD SECURITY

6 Soil Carbon Sequestration and Climate-Smart Agriculture



- Mapping and monitoring of soil organic carbon
- Soil management practices for carbon sequestration
- Role of soils in climate change mitigation and adaptation

7 Land Degradation Assessment and Sustainable Land Management



- Digital assessment of land degradation and restoration planning
- Soil conservation strategies and policy support

8 Soil Ecosystem Services, Resilient Agriculture and Food Security



- Soil functions supporting productivity, water regulation, and biodiversity
- Soil health indicators for resilient cropping systems
- Translating soil knowledge into farmer-centric solutions and food security outcomes



LEAD PAPERS

Lead papers will be invited for oral presentation from eminent scientists, planners, policymakers, and administrators working in the above themes and sub-themes.



The seminar will provide a multidisciplinary platform for sharing emerging research, technological innovations, policy perspectives, and practical solutions for sustainable soil management, resilient agriculture, climate action, and food security.

CALL FOR ABSTRACTS



Original research abstracts related to the seminar's themes are invited from researchers, students, scientists, and planners for oral or poster presentation.

Abstracts should be submitted by email to isslupnatsem2026@gmail.com



ABSTRACT GUIDELINES



Title: 14-point Times New Roman Bold, concise and informative, with the first letter of major words capitalized. Avoid jargon and abbreviations; provide scientific names where applicable.



Abstract Text: Maximum **400** words, in 12-point Times New Roman. It should be self-contained and briefly cover the rationale, objectives/hypothesis, methodology, key results, and conclusions. Study name/year may be included where relevant.



Do not include: References, tables, or figures.



Provide the full scientific names of organisms, chemical names, and soil series descriptions at first mention. Use **SI units and symbols** throughout.



AUTHORS AND AFFILIATION



Author names should be in 12-point Times New Roman Bold, **ALL CAPITALS**, centred below the title.



Affiliation should include the **Laboratory/Department, Institution/Organisation/University**, complete postal address, and **PIN code**.



Any change in affiliation should be indicated as a **footnote**.



The corresponding author's email address should be provided as a **footnote**.

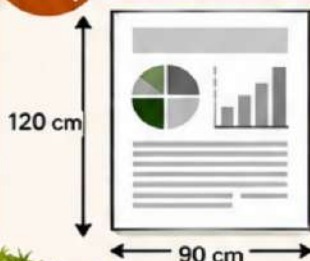


ACCEPTANCE OF ABSTRACTS

Abstracts meeting the prescribed guidelines and found suitable through **peer review** will be accepted for oral or poster presentation.



POSTER PRESENTATION



Accepted abstract will be presented as one poster on a **90 × 120 cm portrait** board.



Posters will be selected based on **technical originality, scientific quality**, and **relevance** to the seminar themes.



MEMORIAL LECTURES



The following three memorial lectures will be delivered by eminent scientists of the country on different contemporary issues of Soil Science.



Dr. S.V. Govindarajan Memorial Lecture

October 07, 2026



Dr. J.L. Sehgal Memorial Lecture

October 08, 2026



Dr. B.B. Roy Memorial Lecture

October 09, 2026



ACCOMMODATION



- Modest accommodation will be arranged in the Guest House, subject to specific requests, at a tariff of **₹1,200–1,500** per day on a twin-sharing basis. Alternatively, accommodation may be arranged in hotels at a tariff starting from **₹3,000** per day on a twin-sharing basis.



- Delegates requesting accommodation are required to make advance payment through **online payment or bank transfer**.



IMPORTANT DATES



Submission of Abstracts

September 10, 2026



Acceptance of Abstracts

September 15, 2026



Advance for Accommodation

September 20, 2026



Registration Fees

September 20, 2026



REGISTRATION FEES

Categories	Early registration Up to September 20, 2026	On-the-spot registration/ October 6, 2026 onwards
Members	₹ 6,000/-	₹ 6,500/-
Non-members	₹ 6,500/-	₹ 7,000/-
Students	₹ 3,500/-	₹ 4,000/-
Research fellow/SRF	₹ 4,000/-	₹ 4,500/-



REGISTRATION

Members of the Society who wish to register for the seminar are requested to submit the duly completed Registration Form along with the requisite registration fee through **online payment or bank transfer**.

	Beneficiary Name	ISSLUP Kolkata Chapter
	Account No.	50200123923112
	IFSC Code	HDFC0000277
	Branch Code	277
	Bank	HDFC (Salt Lake City, Sector 2, Kolkata)



FINAL CIRCULAR



The final circular containing information of the programme and the National Seminar will be sent only to those who register for the seminar.



ABOUT THE HOST CITY: KOLKATA

Kolkata, formerly known as Calcutta, is the capital of West Bengal and one of the major commercial, cultural, and intellectual centres of Eastern India.

Often referred to as the **"City of Joy,"** Kolkata is renowned for its rich literary and artistic heritage, colonial architecture, football culture, distinctive cuisine, and the internationally acclaimed **Durga Puja** festival.

The city's former name, Calcutta, is an anglicised form of **Kalikata**, one of the historic names associated with the area and traditionally linked to **Kalikhshetra**, meaning the "ground of Goddess Kali."

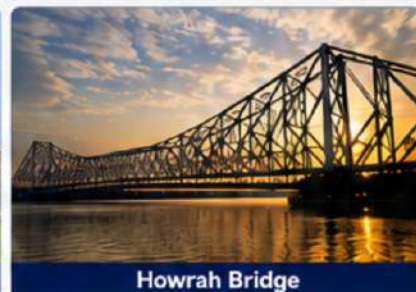
Situated on the eastern bank of the **Hooghly River**, Kolkata has a tropical wet-and-dry climate influenced by the southwest monsoon.

The city offers a unique blend of heritage and modernity, with iconic landmarks such as the **Victoria Memorial**, **Howrah Bridge**, **Indian Museum**, **St. Paul's Cathedral**, and the **Marble Palace**. **Eco-park**, **Nicco-park** and **Science City**.

Its vibrant cultural life, historic neighbourhoods, museums, markets, cuisine, and architectural heritage make Kolkata an attractive destination for visitors from India and abroad. As the host city of the National Seminar, Kolkata provides an ideal setting for scientific exchange while offering delegates an opportunity to experience the rich cultural heritage of Eastern India.



Victoria Memorial



Howrah Bridge



Indian Museum



St. Paul's Cathedral



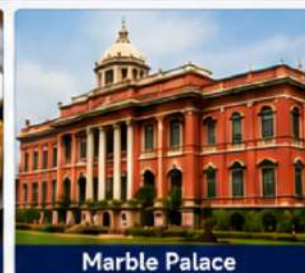
Durga Puja Festival



Heritage Tram



Kolkata Street Food



Marble Palace

Eco-park, Nicco-park and Science City

HOW TO REACH ICAR-NBSS&LUP, REGIONAL CENTRE, KOLKATA



The ICAR-National Bureau of Soil Survey and Land Use Planning (ICAR-NBSS&LUP), Regional Centre, Kolkata is located at **D.K. Block, Sector-II, Salt Lake City, Bidhannagar, Kolkata - 700 091**

Starting Point	Approx. Distance	Approx. Travel Time*
Howrah Railway Station	11-13 km	30-50 min
Sealdah Railway Station	7-9 km	25-40 min
Kolkata/Chitpur Railway Station	5-7 km	20-35 min
Netaji Subhas Chandra Bose International Airport	12-15 km	30-50 min

* Travel time may vary depending on traffic conditions.



One-Day FIELD TRIP to the SUNDARBANS

10 OCTOBER 2026

A one-day field trip to the Sundarbans will be organized on **10 October 2026** for interested seminar delegates.

The field visit will provide an opportunity to experience the unique mangrove ecosystem, coastal soils, land-water interactions, biodiversity, and natural resource management practices of the Sundarbans. Participants will gain practical insights into the application of remote sensing, GIS, soil and land resource assessment, climate-resilient land management, coastal ecosystem conservation, and ecosystem services in a dynamic deltaic environment.

The programme will include a guided field excursion through selected locations, with opportunities to observe mangrove vegetation, tidal waterways, agricultural landscapes, soil-salinity gradients, and coastal ecosystem features. The trip will also highlight the importance of the Sundarbans in carbon sequestration, biodiversity conservation, climate-change adaptation, disaster-risk reduction, and sustainable livelihoods.



DATE

10 October 2026



DURATION

One day



DESTINATION

Sundarbans,
West Bengal



PARTICIPATION

Interested
seminar delegates



NOTE

The detailed itinerary, transportation arrangements, participation fee, and registration procedure will be communicated separately.

CONTACT PERSONS

Regarding Accommodation, please contact:



Dr. Siddhartha Sankar Biswas

Scientist, ICAR-NBSS&LUP, Kolkata

Mobile: 8368603221

Email: siddssac20475@gmail.com

Regarding transport facility, please contact:



Shri. A.K. Maitra

Senior Technical Officer (FFT),
ICAR-NBSS&LUP, Kolkata

Mobile: 8240067732

Email: 6asru.maitra@gmail.com

Organising Accountant



Smt. Bedantika Dutta

Assistant Administrative Officer,
ICAR-NBSS&LUP, Kolkata

Mobile: 9883107187

Email: bedantikadutta@gmail.com



Organizing Secretary

Dr. S.K. Reza

Principal Scientist, ICAR-NBSS&LUP, Kolkata

Mobile: 8583000212

Email: nbsslup09@gmail.com



Organizing Convenor

Dr. F.H. Rahman

Head & Principal Scientist,
ICAR-NBSS&LUP, Kolkata

Mobile: 8240233329

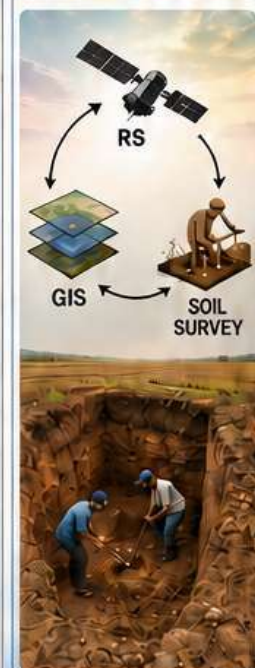
Email: head.nbsscal@gmail.com





National Advisory Committee

1	Dr. M. L. Jat, Secretary, DARE and DG, ICAR, New Delhi	Patron
2	Dr. A. K. Nayak, DDG (NRM), ICAR, New Delhi	Chairman
3	Dr. S. K. Chaudhari, DG, FAI and former DDG (NRM), ICAR, New Delhi	Member
4	Dr. Yashpal Singh Malik, DDG (Agricultural Education), ICAR, New Delhi	Member
5	Dr. P. K. Ghosh, Vice-Chancellor, Visva-Bharati, Santiniketan, West Bengal	Member
6	Dr. A. K. Patra, Vice-Chancellor, BCKV, Kalyani, West Bengal	Member
7	Prof. Debabrata Basu, Vice-Chancellor, UBKV, Cooch Behar, West Bengal	Member
8	Dr. Anil Kumar, ADG (TC), ICAR, New Delhi	Member
9	Dr. A. Velmurugan, ADG (SWM), ICAR, New Delhi	Member
10	Prof. S. K. Sanyal, former Vice-Chancellor, BCKV, Kalyani, West Bengal	Member
11	Prof. Biswapati Mandal, former Pro-Vice-Chancellor, BCKV, Kalyani, West Bengal	Member
12	Dr. K. Sammy Reddy, Director, ICAR-NIASM, Baramati	Member
13	Dr. A. Sarangi, Director, ICAR-IITM, Bhubaneswar	Member
14	Dr. Gouranga Kar, Director, ICAR-CRIJF, Barrackpore, Kolkata	Member
15	Dr. Pradip Dey, Director, ATARI (Zone V), Kolkata	Member
16	Dr. A. Arunachalam, Director, ICAR-CAFRI, Jhansi	Member
17	Dr. Anup Das, Director, ICAR-RCER, Patna	Member
18	Dr. Parveen Kumar, Director, ICAR-CCARI, Goa	Member
19	Dr. Manoranjan Mohanti, Director, ICAR-IISS, Bhopal	Member
20	Dr. Hanuman Sahay Jat, Director, ICAR-CAZRI, Jodhpur	Member
21	Dr. Raghavendra Singh, Director, ICAR-MGFRI, Motihari, Bihar	Member
22	Dr. Kadirvel Govindasamy, Director, ICAR-Research Complex for NE Region, Umiam	Member
23	Dr. Vinod Kumar Singh, Director, ICAR-CRIDA, Hyderabad	Member
24	Dr. Jai Sunder, Director, ICAR-CIARI, Port Blair	Member
25	Dr. Shakir Ali, Director, ICAR-IISWC, Dehradun	Member
26	Dr. (Ms.) Anuradha Agrawal, Project Director (DKMA), ICAR, New Delhi	Member
27	Dr. S. K. Kothary, Director, Instt. of Agriculture, The Neotia University, Diamond Har., West Bengal	Member
28	Dr. Soumitra Das, Director (Asia Pacific), Zinc Nutrient Initiative, New Delhi	Member
29	Dr. Shashikant N. Bhende, GM, Mosaic India Private Limited, New Delhi	Member



Organising Committee

1	Dr. N. G. Patil, President, ISSLUP and Director, ICAR-NBSS&LUP, Nagpur	Chairman
2	Dr. Pramod Tiwary, Secretary, ISSLUP, ICAR-NBSS&LUP, Nagpur	Co-Chairman
3	Dr. F. H. Rahaman, Principal Scientist & Head, ICAR-NBSS&LUP, RC, Kolkata	Convener
4	Dr. S. K. Reza, Prn. Scientist & Councillor East Zone, ISSLUP, ICAR-NBSS&LUP, RC, Kolkata	Organizing Secretary
5	Dr. A. R. Kalbande, Former President, ISSLUP, Nagpur	Member
6	Dr. B. S. Dwivedi, former President, ISSLUP & Ex-Member, ASRB, New Delhi	Member
7	Dr. Arun Chaturvedi, Former President, ISSLUP, Nagpur	Member
8	Dr. Jagdish Prasad, Former President, ISSLUP, Nagpur	Member
9	Dr. P. R. Kadu, Vice-President, ISSLUP, Nagpur	Member
10	Dr. K. K. Yadav, Vice-President, ISSLUP, MPUA&T, Udaipur	Member
11	Prof. B. K. Saren, Principal, School of Agriculture, Visva-Bharati, Santiniketan, West Bengal	Member
12	Dr. G. P. Obi Reddy, Principal Scientist & Head, RSA, ICAR-NBSS&LUP, Nagpur	Member
13	Dr. Hrittick Biswas, Principal Scientist & Head, LUP, ICAR-NBSS&LUP, Nagpur	Member
14	Dr. Jaya N. Surya, Principal Scientist & Head, ICAR-NBSS&LUP, RC, New Delhi	Member
15	Dr. B. L. Mina, Pr-Scientist & Head, ICAR-NBSS&LUP, RC, Udaipur	Member
16	Dr. D. C. Nayak, Former Head, ICAR-NBSS&LUP, RC, Kolkata	Member
17	Dr. S. Dharamrajan, Principal Scientist & Head (Act.), ICAR-NBSS&LUP, RC, Bengaluru	Member
18	Dr. Shyam D. Jadhao, Professor & Joint Secretary, ISSLUP, Dr. PDKV, Akola	Member
19	Dr. R. K. Naitam, Sr. Scientist & Joint Secretary, ISSLUP, ICAR-NBSS&LUP, Nagpur	Member
20	Prof. Amrendra Kumar Singh, Councillor, East Zone, ISSLUP, Nagaland University, Medziphema	Member
21	Dr. Vijay Kant Singh, Pedologist & Councillor, North Zone, PAU, Ludhiana	Member
22	Dr. Sagar N. Ingle, Asstt. Prof. & Councillor North Zone, BAU, Sabour, Bihar	Member
23	Dr. Swati P. Zade, Asstt. Prof. & Councillor Central Zone, VNMKV, Parbhani	Member
24	Dr. Nitin M. Konde, Asstt. Prof. & Councillor Central Zone, Dr. PDKV, Akola	Member
25	Dr. D. R. Chaudhary, Principal Scientist & Councillor, West Zone, ISSLUP, CSIR-CSMCRI, Bhavnagar	Member
26	Dr. Abhishek Jangir, Senior Scientist & Councillor West Zone, ISSLUP, ICAR-NBSS&LUP, Udaipur	Member
27	Dr. K. P. Raghunath, Assoc. Prof. & Councillor South Zone, ISSLUP, TNAU, Coimbatore	Member
28	Dr. M. Lalitha, Senior Scientist & Councillor South Zone, ISSLUP, ICAR-NBSS&LUP, Bengaluru	Member
29	Dr. U. S. Saikia, Principal Scientist, ICAR-NBSS&LUP, RC, Jorhat	Member
30	Dr. Kuntal Mouli Hati, Principal Scientist, ICAR-NBSS&LUP, RC, Kolkata	Member
31	Dr. K. Karthikeyan, Principal Scientist, ICAR-NBSS&LUP, Nagpur	Member
32	Dr. P. P. Adhikary, Principal Scientist, ICAR-NBSS&LUP, Nagpur	Member
33	Dr. R. P. Sharma, Principal Scientist, ICAR-NBSS&LUP, RC, Udaipur	Member
34	Dr. S. Bandyopadhyay, Principal Scientist, ICAR-NBSS&LUP, RC, Kolkata	Member
35	Dr. U. Surendran, Principal Scientist, ICAR-NBSS&LUP, Nagpur	Member
36	Dr. S. Chattarai, Senior Scientist, ICAR-NBSS&LUP, RC, Kolkata	Member
37	Dr. P. S. Butte, CTO, Treasurer, ISSLUP, ICAR-NBSS&LUP, Nagpur	Member
38	Smt. Bedantika Dutta, AAO/DDO, ICAR-NBSS&LUP, RC, Kolkata	Accountant



भारतीय कृषि
अनुसंधान परिषद
ICAR



1976-2026
Years of Serving the Nation

Soil Data to Solutions: Transferring Soil Management for Resilient Agriculture and Food Security

Organized by:

Indian Society of Soil Survey & Land Use Planning (ISSLUP)

In Collaboration with:

ICAR-National Bureau of Soil Survey and Land Use Planning
Regional Centre, Kolkata – 700 091

DELEGATE REGISTRATION FORM

1. Name (in block letters) : _____
2. Designation : _____
3. Institute / Organization : _____
4. Corresponding address : _____

5. Mobile No. : _____
6. E-mail ID : _____
7. Are you an ISSLUP member? : Yes / No
8. Accompanying person (if any) : _____
9. Accommodation required? : Yes / No
10. Date of arrival : _____
11. Date of Departure : _____
12. Payment Details:
 - Amount : _____
 - Date : _____
 - Bank / UPI reference No. : _____

Date: _____ Place: _____ Signature of the delegate: _____



Participant may transfer their registration fee through online payment to the Society Bank account mentioned underneath, else they can submit the same physically on the inaugural day of the Seminar as applicable of late registration / spot registration as per table mentioned above.

ACCOUNT DETAILS:

	Beneficiary Name	ISSLUP Kolkata Chapter
	Account No.	50200123923112
	IFSC Code	HDFC0000277
	Branch Code	277
	Bank	HDFC (Salt Lake City, Sector 2, Kolkata)



Please note:

Filled-in registration form (Pdf / JPGE), copy of receipt of registration fee payment along with Abstract (in MS word) should reach by email (isslupnatsem2026@gmail.com)