



5th International Conference on

SUSTAINABLE NATURAL RESOURCE MANAGEMENT UNDER GLOBAL CLIMATE CHANGE

November 7-10, 2023
at NASC Complex, New Delhi, India

Organized by

SOIL CONSERVATION SOCIETY OF INDIA (SCSI)
New Delhi, India

In Collaboration with



Sponsored by



जल शक्ति मंत्रालय
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ABOUT THE INTERNATIONAL CONFERENCE

Climate change is a reality which has now been accepted globally. The rise in temperature, heat and cold waves, recurring floods and drought, early and delayed rains, frequent cyclones etc. result in low productivity of crops, livestock & forests. It also leads to deteriorated quality of harvested produce and adverse effects on quality of soil & water, land, forests including vegetation as well as increased health hazards. The deterioration of natural resources poses a formidable challenge for meeting 60% additional demand for food by the year 2050 as estimated by FAO. This will impact adversely almost all countries, developing nations and small & marginal farmers globally unless technology-driven mitigation and adaptation measures are undertaken for natural resources management.

In the backdrop of above, the Soil Conservation Society of India has planned to organize the 5th International Conference in hybrid mode on *Sustainable Natural Resource Management under Global Climate Change* during November 7-10, 2023 at National Agricultural Science Centre (NASC) Complex, Dev Prakash Shastri Marg, PUSA Campus, New Delhi, India, 110012. The International Conference having participation of Administrators, Policy Makers, Field Functionaries, Eminent Scientists, Academicians, Researchers and students, who will discuss and deliberate on this global issue and recommend evidence based strategies for implementation. The objective of the International Conference will be addressed through presentation and discussion on the themes and sub-themes listed below:

THEMES AND SUB-THEMES

1: Natural Resource Management towards achieving Sustainable Development Goals (SDGs)

- a. Global warming, increased atmospheric CO₂ changes in rainfall patterns.
- b. Flood & rain water harvesting and management.
- c. Changes in river basin system.
- d. Drought forecasting and management.
- e. Agroecology and sustainable food systems.
- f. Socio economic and food security impacts of climate change in the agriculture sector.
- g. Extreme events (floods, heat waves etc)-forecasting and mitigation.

2: Scientific tools for land resource inventory, hydrologic assessment and decision support systems for effective management of natural resources.

- a. Remote Sensing application and GIS technology for resource inventory.
- b. Uniform delineation & codification of watersheds & management.
- c. Study of soil nutrient deficiency for management of soil health.
- d. Policy Interventions for Soil & Water Management.
- e. Climate change in agriculture and adaptation techniques.
- f. Innovative technologies for resource conservation and yield enhancement in agriculture production.

3: Vulnerability, resilience and mitigation of climate change impact on water resources systems

- a. Hydrologic modeling for resource development.
- b. Vulnerability assessment of water resources system.
- c. Strategies for building resilience in water resources systems.
- d. Role of new and renewal energy sources for water resource management.
- e. Irrigation water quality and management.
- f. Gender participation in the management of water and climate change.

4: Sustainable management of Groundwater

- a. Resource inventory of Groundwater.
- b. Groundwater Management by surface as well as artificial aquifer recharge.
- c. Community based management of Groundwater.
- d. Saltwater intrusion in coastal aquifers.
- e. Groundwater pollution and wastewater management.

5: Planning of efficient Soil and Water management

- Approaches for efficient soil & water management.
- Soil degradation and restoration.
- Role of renewal energy sources in agriculture.
- Socio-economic challenges in planning and adaptation in natural resource management.

6: Hydrology and digital application for management of Watersheds

- River hydrology and channelization of river courses for mitigation of land erosion.
- Irrigation and consumptive use of water.
- Land use and land cover change and management.
- Change in an aquatic habitat and management.
- Point and non-point sources of pollution.
- Water sources, services and infrastructure.
- Water as an input to production and socio-economic development, gender and socio-cultural values of water.

7: Ecosystem and their valuation including Bio diversity conservation and management

- Bio diversity resources conservation and management.
- Ecological restoration of habitat, microbial ecology and agricultural production.
- Soil fertility and health management for C sequestration and sustainable agricultural production.
- Aquatic biodiversity, lake and river restoration.

REGISTRATION

International Conference is open only for the registered participants / delegates. Registration fee includes conference kit, access to International Conference sessions, daily Conference lunches and specified dinners. Also, local site seeing tour is complimentary which may be organize in the afternoon of the 3rd day of the conference. Research Scholars /Students are required to produce a valid identity card/ certificate from their Supervisor / Institute for availing the research scholar/student discount. Registration fees details for various categories of participants for physical/virtual mode are presented below:

1. PHYSICAL MODE

Indian (INR)		Foreign (US \$)	
Delegates (Non –members of SCSi)	₹ 12000/-	Delegates (Non –members of SCSi)	\$ 300
Delegates (Members of SCSi)	₹ 10000/-	Delegates (Members of SCSi)	\$ 250
Research Fellows / Scholars	₹ 6000/-	Research Fellows / Scholars	\$ 200
Accompanying persons	₹ 6000/-	Accompanying persons	\$ 200
Students	₹ 5000/-	Students	\$ 150
Late Fees	₹ 2000/-	Late Fees	\$ 100

2. ONLINE PARTICIPANTS

Indian (INR)		Foreign (US \$)	
Delegates (Non –members of SCSi)	₹ 6000/-	Delegates (Non –members of SCSi)	\$ 150
Delegates (Members of SCSi)	₹ 5000/-	Delegates (Members of SCSi)	\$ 125
Research Fellows / Scholars	₹ 3000/-	Research Fellows / Scholars	\$ 100
Students	₹ 2500/-	Students	\$ 50
Late Fees	₹ 1000/-	Late Fees	\$ 50

PAYMENT OF REGISTRATION FEE

Confirm your registration by payment of non-refundable registration fee either by demand draft or E-Payment in favour of **SOIL CONSERVATION SOCIETY OF INDIA** payable at New Delhi or through electronic payment.

The bank details are as follow:

Name of the account holder	SOIL CONSERVATION SOCIETY OF INDIA
A/C No.	90292010019166
Bank Name & Branch	Canara Bank, NASC, Pusa Campus, New Delhi-12
IFSC Code	CNRB0019153
MICR No.	110015508
SWIFT Code:	CNRBINBBBFD

Please ensure to attach bank/e-transfer details/challan/RTGS transfer details with registration application form at email: intconscsi2023@gmail.com.

Note: On the spot registration fees via debit/credit card facilities will not be available.

CALL FOR PAPERS

Submission of Abstracts

Abstracts are invited on any of the above theme areas or other related areas. The abstracts should not exceed 500 words, should be typed in double space leaving 2.5 cm margin on all sides on A-4 paper. Three to five key words should be given below the abstract in italics. The font should be Times New Roman in 12 pt. size. The full papers of accepted abstracts shall be evaluated, edited and may be published in the conference proceeding book. The full papers must be restricted to 10-12 pages typed in double space, 12 pt size A-4 paper in Times New Roman font including tables and illustrations. The abstract and full paper should be sent through e-mail intconscsi2023@gmail.com in MS word format. A committee will review the abstracts and decide about the nature of presentation (oral/poster). Author(s) will be intimated regarding the acceptance of the papers. Awards will be given for the best paper and poster presentation in each thematic are.

LANGUAGE

The official language of the International Conference will be English.

IMPORTANT DATES

Last date of abstract submission	:	31st July 2023
Intimation of acceptance of abstracts	:	31st August 2023
Submission of full length papers	:	30th September 2023
Last date for registration (without late fees)	:	31st October 2023

VENUE

The International Conference will be organized at the National Agricultural Science Centre (NASC) Complex, Dev Prakash Shastri Marg, Pusa Campus, New Delhi - 110 012 India. National Agriculture Science Centre Complex is a prestigious Complex built by the Indian Council of Agricultural Research (ICAR) having multi-dimensional state of the art facilities like a National Agricultural Museum, Symposia Complex, large underground parking, offices of the International and National scientific organizations/societies, National Academy of Agricultural Sciences (NAAS) and Association of Agricultural Universities of India, Podium, lush green landscapes and an International Guest House fully centrally air conditioned having single/double rooms and suites each fitted with modern facilities, telephone, Internet, TVs, etc. The complex is a national focal point and an attractive platform for the International, National Institutes, Societies, Agencies including State Agricultural Universities, Central Agricultural Universities and all other public sector organizations engaged in the promotion of agricultural research, education and development.

PROGRAMME (TENTATIVE)- INDIAN STANDARD TIME

DAY1	DAY2
08:30-10:00 hrs - Registration	09:00-09:45 hrs - Key Note Address
10.00-11:30 hrs - Inaugural Session	9:45-11:45 hrs - Technical Session: III Lead Papers Oral Presentations
11:30-12:00 hrs - Hi-tea	11:45-12:00 hrs - Tea Break
12.00-13.30 hrs - Key Note Addresses	12:00-13:30 hrs - Technical Session: IV Lead Papers Oral Presentations
13:30-14:30 hrs - Lunch	13:30-14:30 hrs - Lunch
14.30-16.00 hrs - Technical Session: I Lead Papers Oral Presentations	14:30-16:00 hrs - Technical Session: V - Lead Papers and Oral Presentations
16:00-16:30 hrs - Tea Break	14.30 -16.00 - Poster Session on technical sessions I, II & III
16:30-17.30 hrs - Technical Session: II Lead Papers Oral Presentations	16:00-16:30 hrs - Tea Break
18:00-19:30 hrs - Cultural Programme	16:30-17:30 hrs - Session on International Soil Conservation Organization (ISCO)
19:30-21:00 hrs - Dinner	17:30-18:30 Discussions / Meeting on SCSi affairs
	18:30-21:00 hrs - Gala Dinner
DAY3	DAY4
09:00-10.00 hrs - Key Note address	09:00-10.00 hrs - Key Note address
10.00-11:30 hrs - Technical Session: VI - Lead Papers and Oral Presentations	10.00-11:30 hrs - Technical Session: VII Lead Papers Oral Presentations
10:00-11:30 Poster Sessions on technical session: IV & V	11:30-12:00 hrs - Tea Break
11:30-12:00 hrs - Tea Break	12.00 -13.30 - Poster Session on technical sessions VI & VII
12:00-13:30 hrs - Session on Government Programme related to NRM	13:30-14:30 hrs - Lunch
13:30-14:30 hrs - Lunch	14:30-15.30 hrs - Sponsored Sessions/Panel Discussion
14:30 hrs Half Day local tour	15.30-16:00 hrs - Tea Break
19.30 - Dinner	16:30-17:30 hrs - Valedictory Session and closing ceremony

TOUR

Pre conference tour, Technical Tour and Mid Conference local tour will be organized during the International Conference for the participants. Pre conference tour and Post-conference Technical tours shall also be organized for interested participants on payment basis. However, the arrangement of tour will depend upon the responses received from the participants.

PRE CONFERENCE TOUR
POST CONFERENCE TECHNICAL TOUR

November 5-6, 2023 (Agra/Jaipur)
November 11-12, 2023 (Karnal/Dehradun)

WEATHER

The weather of New Delhi in November is mildly cool and pleasant. The mean minimum and maximum temperatures are 12°C and 24°C, respectively. The venue of the International Conference and International Guest House are located in vast open area with lush green and Eco-friendly environment.

ACCOMMODATION

The International Conference venue is located at the heart of the National Capital. A wide range of hotels are available within a short distance from the International Conference venue. First-time visitors to India may find it more convenient to stay at the hotels which are within reasonable distance from the conference venue. The tariff varies from ₹4,000/- to ₹15,000/- (US\$ 60 to US\$ 200) per room per day stay near National Agricultural Science Centre Complex, PUSA Campus, New Delhi. The organizers have negotiated with some of the hotels in vicinity and they have agreed to offer discounts for the participants for the conference periods. The list of hotels and their contacts shall be made available on website for direct bookings.

VISA INFORMATION

All foreign nationals visiting India are required to possess a valid International travel document in the form of a National Passport with a valid visa. All individual visa seekers are advised to apply for the Indian visa, through online application link. For details please visit <https://indianvisaonline.gov.in>. However, a letter from organizers for visa shall be issued on request from individual after acceptance of abstract or confirmation of participant intending to participate in International Conference. The participant should provide complete address with proof and copy of passport/passport number etc.

INSURANCE AND LIABILITIES

The organizers are not responsible for individual medical, travel or personal insurance. Participants are strongly advised to take their own insurance policies. Further, the organizers cannot assume any form of liability for changes in the programme in case of external disturbances or unforeseen circumstances.

FINANCIAL ASSISTANCE

At present the organizers are not in a position to offer any financial assistance to the participants. However, attempts are being made to approach various international/national agencies for financial support.

OPPORTUNITIES FOR CO-SPONSORS

Co-sponsors of the International Conference are offered with multiple opportunities including placement of the organization / company logo/emblem in the backdrop, advertisement in souvenir etc., The sponsorship contribution is as follows:

Platinum	₹10.00 Lakh (US\$ 16000) (Three Complementary Registration)
Diamond	₹5.00 Lakh (US\$ 8000) (Two Complementary Registration)
Gold	₹3.00 Lakh (US\$ 4000) (One Complementary Registration)

ADVERTISEMENT IN SOUVENIR

The Souvenir of the International Conference which will contain messages from VIP's and articles from renowned scientists, policy makers and administrators. Interested companies may contact the organizers for giving their advertisements. The rates for the advertisement are as follows:

Full colour page	₹50,000 (US\$ 600)
Half colour page	₹35,000 (US\$ 400)
Full B/w page	₹20,000 (US\$ 250)

EXHIBITION

An exhibition will be organized during the International Conference which will provide an opportunity for showcasing latest technologies in the field of natural resources management. It will offer the inventors, industries and business professionals the opportunities to reach all concerned stakeholders for displaying and sharing information about their products or any services.

One day	:	₹50,000 (US\$ 600)
Two days	:	₹1,00,000 (US\$ 1200) (One Complementary Registration)
Three days	:	₹1,50,000 (US\$ 1800) (One Complementary Registration)

Conference updates

Information contained in the circular and all updates are available at the website of SCSi <http://scsi.org.in>.

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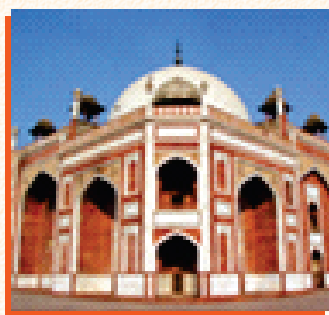
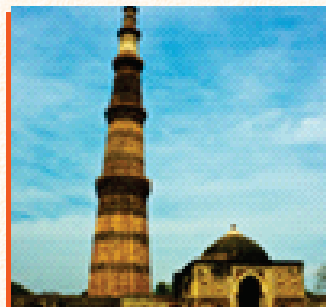
MID-CONFERENCE TOUR

The mid Conference Tour will be organized as part of conference at no additional charges for the delegates.

SIGHTSEEING (NEW DELHI)

1430 hrs : Pick up from the hotel and proceed for Half Day New Delhi Sightseeing as per the Itinerary given below.

1515 hrs. : Visit the 12th century **Qutub-Minar** in red and buff sandstone is the highest tower in India. It has a diameter of 14.32m at the base and about 2.75m on the top with a height of 72.5m. Qutb-u'd-Din Aibak laid the foundation of Qutab Minar in AD 1199. The minar was said to have been built to celebrate the victory of Mohammed Ghori, the invader from Afghanistan, over the Rajputs in 1192. He raised the first storey, to which were added three more storeys by his successor and son-in-law, Shamsu'd-Din Iltutmish (AD 1211-36). All the storeys are surrounded by a projected balcony encircling the Minar and supported by stone brackets, which are decorated with honeycomb design, more conspicuously in the first storey.



1630 hrs. : Later proceed for **Humayun Tomb** - Humayun's Tomb is situated in New Delhi. Humayun's senior widow Bega Begam, popularly known as Haji Begam built the tomb, at a cost of 15 lakh rupees. It was built in the year 1565. It is among the first examples of Mughal architecture, with high arches and a double dome. There are two high double-storey gateways on the west and south that lead to the enclosure. There is a pavilion in the center of the eastern wall and a bath chamber in the center of the northern wall. To enter the tomb's chamber one has to come through the south entrance while the other three sides are covered with mesh wire in white marble. In the quietude of the central chamber lies the tomb, though the actual resting-place of Humayun is directly beneath in an underground chamber. The

lofty mausoleum is in the center of the enclosure and rises from a podium faced with series of cells having arched openings.

1800 Hrs. : Later proceed for **India Gate**, situated at the Eastern end of Rajpath in Central Delhi is the 42 m high stone arch of victory, renowned as the India Gate. Formally known as the All India War Memorial previously, the foundation stone of this magnanimous structure was laid by the Duke of Connaught in 1921 and dedicated to the nation in 1931 by the then Viceroy, Lord Irwin. Designed by Sir Edwin Lutyens, the India Gate stands on a low base of red Bharatpur stone and rises in stages to a huge cornice. Above on both sides is inscribed India, flanked by MCM and to the right, XIX. The names of the 90,000 soldiers of the Indian Army who lost their lives in World War-I, and an additional 13,516 names who sacrificed their lives in the North-West Frontier in the Afghan War of 1919 are inscribed on the walls of this grand construction.



19:00 hrs. The National War Memorial: The memorial is in the form of an obelisk which is 15.5-m tall as a tribute to the soldiers who lost their lives while protecting the country. The memorial wall includes the inscription of names of martyrs from the Independence war of 1947, 1961 Annexation of Goa, 1962 Indo-China War, 1965 Indo-Pakistan War, 1971 Indo-Pakistan War, 1987 Siachen war, 1987-88 Operation Pawan in Sri Lanka, and 1999 The Kargil War in Kargil. The inauguration of the National War Memorial was quite recent, that is, on the 25th of February 2019. Although people can visit this place for free to witness this tribute to the martyrs at any time of the day, evenings are the most preferable time for you.

19:30 hrs. : Return to guest house/hotel.

PRE CONFERENCE TOURS

This tour is optional for the delegates. The delegates will be charged an amount of \$100/ ₹ 8500.

TWO DAY TOUR : DELHI - AGRA (210 KM/3.5 HRS)

Visit **Agra Fort**, a Mughal Architectural tradition that represents the assimilation of different cultures. Akbar began the construction of this massive red sandstone fort on the banks of River Yamuna in 1565. It was ready by 1571 though additions were made until the rule of Shah Jahan, Akbar's grandson.



Visit the world famous **Taj Mahal** built by Shah Jahan in 1606 in memory of his queen Mumtaz Mahal to enshrine her mortal remains. This architectural marvel is a perfectly proportioned masterpiece fashioned from white marble that stands testimony to the skill of 20,000 craftsmen brought together from Persia, Turkey, France and Italy and who took 17 years to complete this 'Monument of Love in Marble'.

Fatehpur Sikri is also nearby and can be visited. Located 40 kms from Agra, the deserted city of

Fatehpur Sikri was built by Emperor Akbar in 1569, in honour of the great Saint Sheikh Salim Chisti who blessed Akbar and prophesized the birth of three sons to the heirless Emperor.

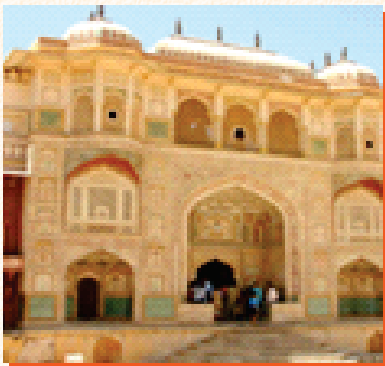


OR

TWO DAY TOUR : DELHI - JAIPUR (260 KM/5.5 HRS)

Visit to **Amber Fort** which is situated in Amber, which is 11 kilometers from Jaipur. Amber, originally, was the capital of the state before Jaipur. It is an old fort, built in 1592 by Raja Man Singh. This fort is also very popularly known as the Amber Palace.

Visit **City Palace**, it is a splendid blend of the Rajasthani and the Mughal style of architecture. The entire complex is divided into numerous courtyards, gardens and buildings.



Jantar Mantar: There are plenty of observatories all over the world, but the Jantar Mantar is considered to be one of the largest observatories ever built. Jaipur was the seat of Maharaja Jai Singh II during the 1720's and this is when this magnificent structure was built here.

The Hawa Mahal or the Palace of Winds was constructed for the royal ladies to watch the royal processions without being seen, all monuments are located in the vicinity of City Palace Complex of Jaipur.

Tour cost to be borne by the individual participant. On prior intimation along with registration, the tour will be booked..



TECHNICAL TOURS

The organizers will arrange for one day tours to site of erosion management in foothill region and ravine land management. The details of the sites to be visited are as follows. Further details will be put up on the website.

KARNAL: A city located in National Capital Region in the state of Haryana, is known as the rice bowl of India. It is centrally located between Delhi and Chandigarh and is 123 km from Delhi. Central Soil Salinity Research Institute is located here pioneered in the rejuvenating the salt affected lands through advanced techniques and feasible approaches. It is an internationally recognised esteemed centre of excellence in salinity research. One can get live demonstrations of Integrated farming system & multi-enterprise model, agroforestry, conservation agriculture and drainage techniques for reclamation and management of salt affected soils and use of poor quality irrigation waters.

DEHRADUN: It is the capital city of the Indian state Uttarakhand located in the Himalayan foothills. It is the education hub in north India and famous Forest Research Institute and Anthropological Museum and Indian Institute of Remote Sensing are located here. Indian Institute of Soil and Water Conservation (IISWC) has its headquarters here. An exposure visit of participants helps to understand the experiences and impact of developing watershed in different sites in foothill region. IISWC is involved in development and dissemination of technologies for conservation of soil, water and water and other natural resources and their conservative uses.



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