

*Second
Circular(Revised)*

40th INCA International Congress

10th-12th FEBRUARY 2021

(Subject to change due to Pandemic situation)

on

Digital Mapping Innovations in Make India Initiatives



Organised by



INDIAN NATIONAL CARTOGRAPHIC ASSOCIATION

Hosted by



NATIONAL ATLAS AND THEMATIC MAPPING ORGANISATION

Department of Science and Technology, Govt. of India

Venue



Hyatt Regency Kolkata

JA-1, JA Block, Sector III,
Bidhannagar, Kolkata
West Bengal 700098

The National Atlas should aim at a strictly objective and scientific presentation of the natural conditions, natural resources and economic development of the land and adjacent seas, of the history and prehistory of the country, and of the distributions, occupations, movement and social conditional of the population.

Padmabhusan Prof S.P. Chatterjee

INVITATION

National Atlas & Thematic Mapping Organisation (NATMO), cordially invites Geographers, Cartographers, Geospatial Professionals from Governments/ Private and associated streams, Academicians, Entrepreneurs to participate in the 40th INCA International Congress to be held at Kolkata during 10th to 12th February 2021.

This year due to COVID-19 Pandemic, the congress will be held both in online and offline mode.

INCA

Indian National Cartographic Association (INCA) has its origin on 7th August, 1979 at Hyderabad, evolved into one of the biggest organisations of its kind in the world. INCA is devoted to the cause of cartography as a graphic mode of communication. Indian National Cartographic Association (INCA) is an interdisciplinary institution, originally for professional Geographers and Cartographers, which is now extended to a host of premier public and private bodies. From a modest beginning with 79 members, today it is a professional body of more than 3000 Fellow and Life Members, and 72 Institutional Life Members. The majority of its members are practicing Cartographers from Organisations like Survey of India, Geological Survey of India, National Hydrographic Office, National Remote Sensing Agency, Space Application Centre, National Atlas & Thematic Mapping Organisation, State Remote Sensing Agencies, Universities, Private Industries and other Scientific and Research Organisations spread all over India. It has Branches functioning at Ahmedabad, Bangalore, Bhubaneswar, Mumbai, Kolkata, Chandigarh, Dehra Dun, Delhi, Hyderabad, Indore, Jodhpur, Chennai, Thiruvananthapuram and Shillong. INCA has so far organized 39 National and International Congresses, the last being at Dehradun in 2019.

Digital transformation of Cartography enhanced its scope in the form of Geographic Information System (GIS) with multifaceted and highly composite

broad subject, rolling several disciplines with most advanced technologies, facilitating spatial information from visualisation to communication and multi-dimensional association with the following aims:

- a) To foster cartographic research in the country
- b) To cooperate with professional organisations of cognate disciplines and to promote interaction within an inter-disciplinary frame.
- c) To cooperate with International organisations with similar objectives.
- d) To foster cooperation between government and quasi government organisations, research institutions engaged in cartographic activities and their application.
- e) To hold an annual cartographic congress at the national or international level.
- f) To take such measures as may help secure cartography its legitimate place in national life and enhance a sense of national responsibility and professional efficacy among all the professionals and academic people engaged in cartographic activities in its broad sense.

THE HOST

National Atlas & Thematic Mapping Organisation (NATMO) is premier cartographic organization of the country under Ministry of Science and Technology, Government of India. NATMO is engaged in scientific pursuits for preparation of thematic maps and atlases at local, regional and national levels.

The origin of the National Atlas Organisation dates back to the year 1956 when Pandit Jawahar Lal Nehru approved its establishment. Padmabhusan Professor S.P. Chatterjee, the doyen of Indian Geography, was the founder Director of this Organisation. As its name implies, the main task of the organisation was the preparation of **National Atlas of India**. With the passage of time NATMO has widened with work sphere with full-fledged Digital Mapping system to showcase its activities and publications to the user through web service and became a prestigious institute by making substantial contribution, towards the nations efforts as realistically as possible. It employs a large number of qualified professional geographers, perhaps the largest number under one roof anywhere in the world who are working with qualified geologists and statisticians as well.

NATMO is also pioneered in indigenous tactile mapping technique and published the first ever Braille Atlas to disperse geographical knowledge among the visually impaired students of the country. For this honest endeavour, the Hon'ble Prime Minister, has conferred the best achievement award in the field of Science & Technology to NATMO in the auspicious occasion of Indian Science Congress in the year 2017.

THE HOST CITY

Kolkata is the 'City of Joy' where people live with love, joy and creativity and 350-year-old vibrancy whisper in the old mansions creating a beautiful juxtaposition of colonial-era charm. The natural beauty of tidal Hugli River, East Kolkata wetland, a Ramsar site renowned by its traditional, waste-water recycling fisheries, the heritage mangroves of Sundarban Delta attracts tourists here. A kaleidoscope of contrasting ideas, culture, styles, and moods amalgamated for learning and scholastic activities, for faiths, politics and economies making the city noble and futuristic.

VENUE

The venue selected for the 40th INCA International Congress is Hotel Hyatt Regency. It is a centrally located 5-Star hotel on E. M. Bypassin Kolkata. It is adjacent to the Vivekananda Yuva Bharati Krirangan (Salt Lake Stadium). The hotel is just 15 minutes' drive from Netaji Subhash Chandra Bose International Airport, Kolkata, 9 km from Howrah Railway Station and 7 km Sealdah Railway Station.

FOCAL THEME

Digital Mapping Innovations in Make India Initiatives

Advanced technology for digital mapping converged with harmonized methodologies for applications at local to global scale has become the key driver to overcome major challenges in the present day.

Digital mapping is now replacing the manual system and enabling widepublic participation in planning and enhance the equitable sharing of resource and information. Map now becomes the mirror of a geographical area through networking system overlaid on easily accessible and readily available on digital platforms, facilitating deep drive solution for more information including tracking and monitoring in real-time cost-effective manner.

Realistic crisis of thepresent pandemic world ismaking human life more vulnerable and India is no exception of it. To overcome the situation, the Union Government has emphasized on Make India Initiatives through 'Self-reliant India' or 'Atmanirvar Bharat' for sustainable and overall planning of country's wealth. Digital mapping can easily be an effective tool to take up this challenge to make our country self-reliant or Atmanirvar through seamless integrated services congregate with different Government schemes. This will also enable the Indian citizen to participate in sustainable and all-inclusive local development.

Thus the 40th INCA 2020 will provide a digital platform for Make India initiatives through collaborative and sharing approach of all the participants from Institutes, Universities, and Companies to showcase the intellectual

innovations in the field of mapping technology which will open-up further avenues to the academician, researchers, entrepreneurs, administrators, planners, decision makers and others to build a self-reliant India.

Sub-Themes

1. Cartographic Education: Reprogramming Traditional Practices
2. Traditional Cartography vs. Digital Cartography
3. Subversive and Alternate Cartographies and Mapping the Humanities
4. Advanced Technology for Natural Resource Management
5. Landscape Analysis Algorithms
6. Water Resource Management
7. Map our Mountain and Coastal frontiers: Save our Boundary
8. Climate Change Issues for Environmental Reconstruction
9. Disaster Risk and Crisis Management: Local Challenge in Global Perspective
10. Smart Agriculture to ensure Food Security
11. ICT and Interactive Map Services for Societal Support Planning to tackle pandemic crisis
12. Urban Resilience through Smart Planning Initiatives
13. Smart Village Planning for Livelihood Security especially for migrant labourers
14. Culture, Heritage and Tourism: A Synthesis Phase in Future Destination
15. Frontier Technology: Converging Information Mining and Machine Learning Algorithms (AI) in Big Data Geo-Visual Analytics

SUBMISSION OF ABSTRACT & FULL PAPER PUBLICATION

Authors are requested to submit their original research contribution in the form of abstract with specified sub-theme in the foot note, not exceeding 300 words with maximum 5 key words, 1.5 spaced, 12 fonts, Times New Roman, justified on both sides containing a brief introduction, objectives, methodology, database, major findings and keywords followed by submission of full-length paper of 10 pages after getting the letter of acceptance of abstract from the organizers including tables, diagrams, maps, references, title. The abstract must carry the authors name, designation, affiliation, contact number with STD or ISD code (e.g. +91-940000000) and email id. It is highly expected that the contributions should be authentic as per the research ethics of anti-plagiarism. Selected number of papers will be published either in an **UGC recognised** journal or an editorial volume with ISBN number and for that an additional charge (**Rs.1200/-**) will be applicable for the publication if the manuscript is accepted by the Editorial Board. Both the abstracts and full papers have to be submitted to the following email inca40.natmo@gmail.com

FOR POSTER PRESENTATION

Standard Poster Size: (3 x 2) ft

REGISTRATION

The participants are requested to register themselves by submitting the Registration form along with fees on or before January 23, 2021. Fee is to be paid online/ Bank Draft to be drawn in favour of "40th INCA INTERNATIONAL CONGRESS" payable at Kolkata.

Note: No abstract will be published in Abstract volume without the receipt of the registration fee on or before January 26, 2021

IMPORTANT DATES

EVENT	DATE upto
Abstract Submission	January 23, 2021
Abstract acceptance	January 25, 2021
Early Registration	December 25, 2020
Full Paper Submission	January 31, 2021
Request for Exhibition	December 25, 2020
Request for advertising in souvenir	December 25, 2020
Last date for Registration	January 26, 2021
Main Event	February 10 to 12, 2021

E-Mail Address for sending Abstract: inca40.natmo@gmail.com

Special Lecture Events

TODARMAL MEMORIAL LECTURE

To commemorate Raja Todarmal's contribution to the cause of land revenue and land survey for cadastral mapping, Indian National Cartographic Association organizes Todarmal Memorial Lecture in every INCA Congress. The first lecture in the series was delivered in the year 1994 and is being continued every year.

PROF. S.P.CHATTERJEE MEMORIAL LECTURE

Prof. S. P. Chatterjee, the Founder Director of NATMO was the doyen of cartography in India. To commemorate his systematic and scientific contribution in the field of Geography and Cartography, S.P. Chatterjee Memorial Lecture has been introduced from XXIV INCA International Conference and is organized every year. This year it will be 16th such memorial lecture.

AWARDS

Through this conference three major awards will be provided.

- i. *Award for Young Presenters (<40 years of age)*
- ii. *Best Paper Presentation Award*
- iii. *Best Poster Presentation Award*

SPECIAL SESSIONS FOR INSTITUTE, INDUSTRY AND TECHNOLOGY PARTNERS

Third day pre-lunch session is dedicated for Institute, Industrial and Technology partners to showcase their innovations. Industry partners are invited to present their company profile, product portfolio, services and share experience with the INCA congress delegates through presentation. Only those partners who sponsor a major event or set up stalls will be allowed to make technical presentation with their state-of-the-art technology in cartography, cutting edge technologies in IT, LiDAR, Drones, Printing including 3D Mapping and Printing and allied disciplines.

Partners are also allowed for virtual exhibition and technical presentation.

Registration Details:

Interested participants are requested to register online with payment of registration fee through website: inca2020.org. The registration fees also can be transferred through Bank A/c as per details below:

Bank Account Details	
Bank Name:	Central Bank of India Block DD, Plot 13-18, Sector-1, Salt Lake City, Kolkata-700064
Branch Name	Salt Lake
Current Account Name	40 th INCA International Congress
Account No	3847420726
IFSC Code	CBIN0281353

INCA GST Registration Number: 36AAAAI0697N1Z9

Registration Fee

Registration fee includes conference kit and catering on the conference days. Student delegates attending the congress could avail discounted registration rates on submission

of authorization from the concerned Departments of the University/College stating their bonafide status. There will be no spot registration in this year.

Physical participation of delegates in Congress entry has been restricted within 150 persons due to pandemic situation.

Registration fee of the delegates				
For Physical Participation				
Category of Participant	Upto January 10, 2021		After January 10, 2021	
	INDIAN DELEGATES	FOREIGN DELEGATES	INDIAN DELEGATES	FOREIGN DELEGATES
Life Members	₹2500	-	₹3000	-
For Students (Indian)	₹2500	-	₹2500	-
Others (participants/delegates /members)	₹3000	US\$ 45	₹3500	US\$ 50
For Online Participation				
Life Members	₹1000	-	₹1000	-
For Students (Indian)	₹500	US\$ 20	₹500	US\$ 20
Others (participants/delegates /members)	₹1000	US\$ 25	₹1500	US\$ 30
NB :				
i. Change of options are subject to availability.				
ii. Physical attendance of the members and delegates above 65 years and accompanying persons are not allowed due to the prevailing COVID-19 pandemic.				
iii. Due to restrictions, registration (both online and offline) will be on first come first serve basis.				

ACCOMODATION & TRANSPORT

Kolkata being the capital of the State of West Bengal has a large number of 3/5 Start Hotels like Hyatt Regency, The Stadel, Sonnet, De Shovrani, ITC Sonar Bangla, JW Marriot, Hotel Sadwood International, Vivanta, Sheldon International, Tatvam Residency etc. hotels are located close to the venue. Besides that, The Park, The Hindustan International, Hotel Taj Bengal, The Peerless Inn, The Kenilworth etc. five-star hotels are located in the city at a considerable distance from the venue. However, the organizers will try to arrange double bed accommodation (on sharing basis) in Hotel Hyatt Regency in the range of ₹5000/- - ₹7000/- per day. Free accommodation will only be arranged for INCA Quiz award winning students & one accompanying teacher.

For the convenience of the delegates of 40TH INCA INTERNATIONAL CONGRESS, special transport arrangements will be made for arrival and departure at the Netaji Subhash Chandra Bose International Airport, Howrah, Kolkata and Sealdah Railway Stations subject to prior intimation about date, time and place of arrival and departure.

EXHIBITION

An exhibition of maps, charts, globes, models, Projects/ Programmes, and cartographic, reprographic, surveying, remote sensing, computer UAV and other latest technological and related equipment will be organised during the congress at the venue to encourage interested partners such as Geospatial organisation / Information Technology companies/ Universities/ Institutes/ other related organisations to show case and demonstrate their products and services. The exhibition will be open to the congress delegates as well as general public visiting the Venue. The stalls would be allotted on first cum first serve basis. Stalls of different sizes will be available on demand. As the space is limited, the partners are requested to book early to avoid disappointment. The booking form duly filled in along with the requisite payment through online mode of transaction or in the form of a Demand Draft drawn in favour of “40TH INCA INTERNATIONAL CONGRESS 2020” payable at KOLKATA should be sent to the Organizing Secretary at the address given overleaf so as to reach before January 20, 2021. Alternately the booking amount fees can also be transferred through bank as per details given overleaf. The booking request for exhibition stalls will not be confirmed without payment.

40th INCA congress will also provide platform for presenting through virtual Exhibition Stalls. For more details please contact the Organising Secretary.

SOUVENIR CUM ABSTRACTS

On the occasion of 40TH INCA INTERNATIONAL CONGRESS, Souvenir will be released at the inaugural function by the Chief Guest. It will contain the abstracts of selected technical papers to cater for advertisements of products & services of advertisers. The size of the Souvenir will be approximately 21 cm x 27 cm.

The rates are as follows:

Sl. No	Contents	Rate (₹)
I.	Back Cover (colour)	100,000/-
II.	Front/ Back inner cover (Colour)	60,000/-
III.	Facing Front/ Back inner cover (Colour)	50,000/-
IV.	Full Page (Colour)	40,000/-
V.	Full Page (Black & White)	30,000/-
VI.	Half Page (Black & White)	20,000/-
VII.	Quarter Page (Black & White)	10,000/-

Intending organisations / institutions / companies may send their requests for booking advertisement space in the Souvenir along with 'ready to print' (required colour separates) advertisement material in hard and soft copy and requisite payment through conference website or bank transfer as per details given overleaf.

SPONSORSHIP DETAILS WITH CHARGES

Sponsorship Plans for leading partners such as Cartography and Remote Sensing, GIS, Consultancy, Technology, Public Sector organisations, Govt. Departments, industries, original equipment manufacturers, other agencies and individuals are requested to generously sponsor the 40th INCA International Congress as per details mentioned below.

Strategic Sponsor	₹7.5 lakh (with free registration of 7 delegates & Logo display)
Platinum Sponsor	₹5.0 lakh (with free registration of 5 delegates & Logo display)
Gold Sponsor	₹3.5 lakh (with free registration of 3 delegates & Logo display)
Silver Sponsor	₹2.5 lakh (with free registration of 2 delegates & Logo display)

All the Payment will be made either online mode or in the form of demand draft drawn in favour of “40TH INCA INTERNATIONAL CONGRESS” payable at KOLKATA by **January 20, 2021** to the Organising Secretary at the address mentioned. Please note that all payments must be done with extra 18% GST.

Conference Kit: ₹6,00,000 + 18% GST (US\$ 9250); 3 delegates free, one folded double page coloured advertisement in souvenir, name on kit bags at one place, 10 minute presentation.

Patron Sponsor: ₹2,00,000 + 18% GST(US\$ 3100); 2 delegates free, one full-page advertisement in souvenir (coloured), 10-minute presentation, logo display

Cultural Evening: ₹1,50,000 + 18% GST(US\$ 2500); 1 delegate free, full-page advertisement in souvenir (mono), 10-minute presentation, banner display.

Lunch & Dinner: ₹2,50,000 + 18% GST(US\$ 4000); 2 delegates free, full-page advertisement in souvenir (mono), banners in dining area.

Inaugural Tea: ₹1,00,000 + 18% GST(US\$ 1600); 1delegate free, half page advertisement in the Souvenir (mono), banners in dining area.

Tea during Breaks: ₹50,000 + 18% GST(US\$ 800); each session (Total four sessions); one delegate free, one half page advertisement in the Souvenir (mono), banners in dining area.

Co-Sponsor: ₹50,000 + 18% GST(US\$ 800); 1 delegate free, one half page advertisement in the souvenir (mono), banner display at suitable places.

Organisations/Institutions/Companies desirous of sponsoring may forward their letter of intent to the Organising Secretary along with advertisement material and details by 20th January 2021.

President, INCA
Dr. Tapati Banerjee

Local Organising Committee
Chairman
Dr. Biman Ghosh

Vice-Chairman
Dr. SuklaHazra

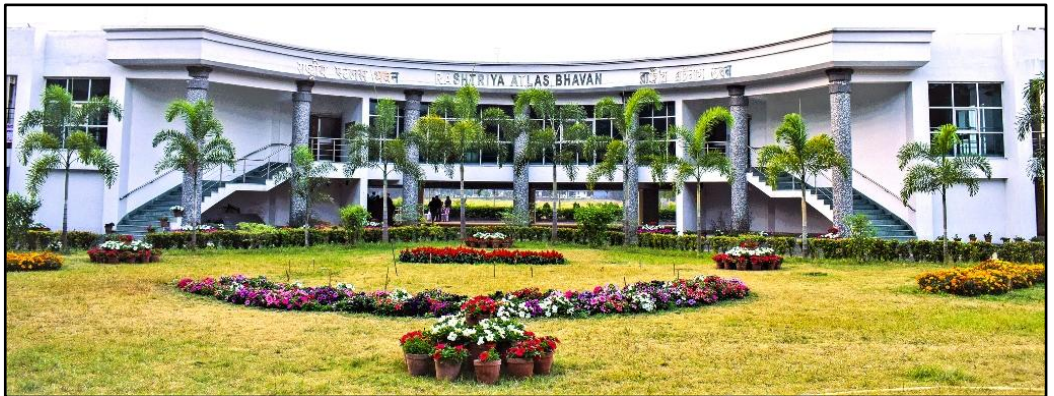
Organising Secretary
Sri Sajikrishnan K.

Joint Secretary
Dr. Mousumi Roy Chowdhury
Sri Sonam YogelBhutia

Treasurer
Smt. Debjani Goswami

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