

FIRST CIRCULAR

45th INCA INTERNATIONAL CONGRESS

ON

ADVANCES IN CARTOGRAPHY FOR A BETTER TOMORROW
12-14 NOVEMBER, 2025



Patron
Prof. Kameshwar Nath Singh
Hon'ble Vice-Chancellor, CUSB



Chairman
Prof. Narendra Kumar Rana
Registrar, CUSB



Director, NATMO
President, INCA
Dr. Binod Kumar Singh



Secretary General, INCA
Mr. Manchala Santhosh

Organised by

National Atlas & Thematic Mapping Organisation

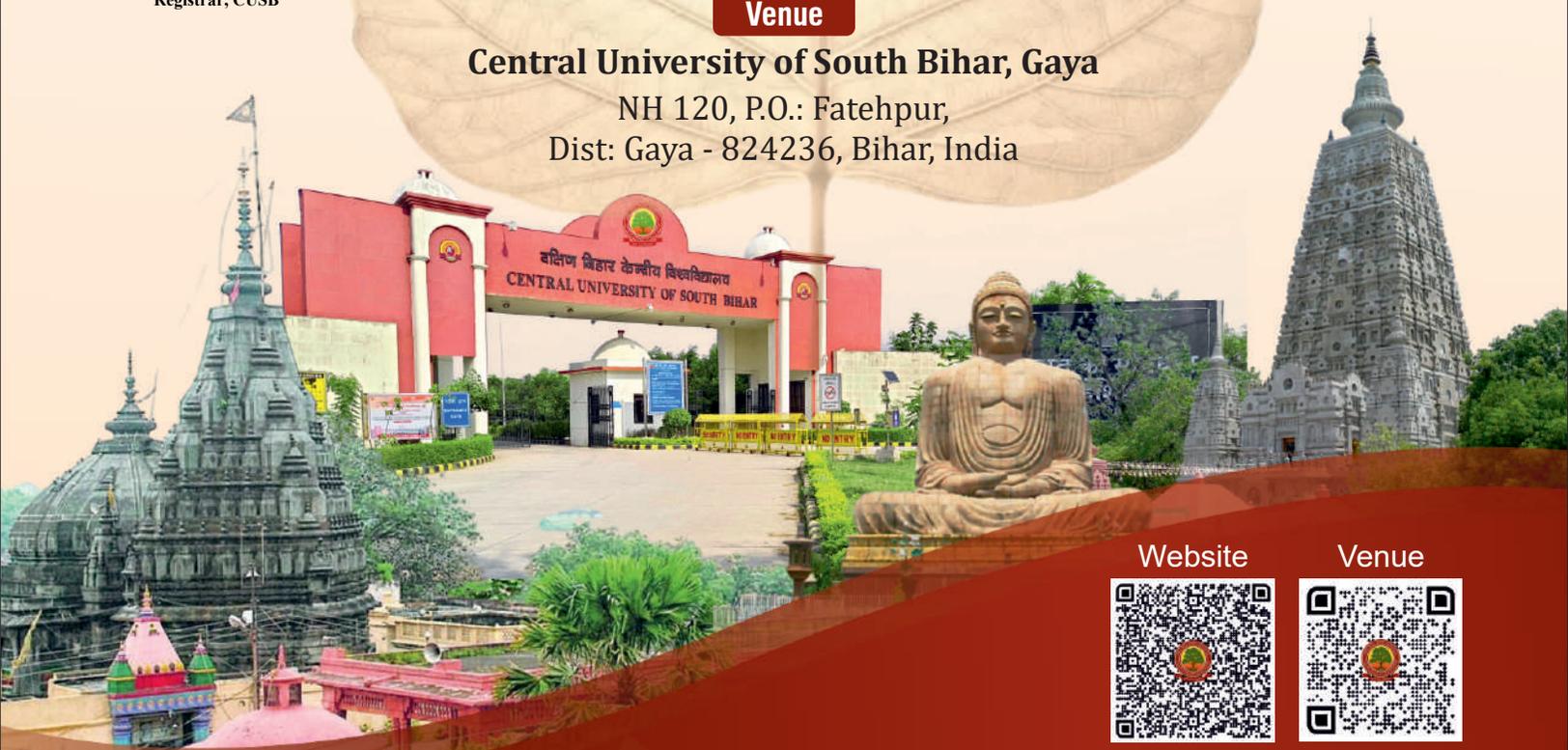
In association with

Central University of South Bihar, Gaya

Venue

Central University of South Bihar, Gaya

NH 120, P.O.: Fatehpur,
Dist: Gaya - 824236, Bihar, India



Website



Venue



INVITATION

Dear All,

It gives us immense pleasure to present the first announcement of the 45th INCA International Congress on the theme "Advances in Cartography for a Better Tomorrow", which will be held from 12th to 14th November 2025 at the Central University of South Bihar, Gaya, India. The congress is being organized by National Atlas & Thematic Mapping Organisation (NATMO) in association with Indian National Cartographic Association (INCA). This esteemed event aims to bring together a diverse community of researchers, academicians, students, professionals, government officials, NGOs, start-ups, and technology firms working in or passionate about cartography, geospatial technologies, and their multifaceted applications.

The congress will outline the background, objectives, and vision of the gathering while emphasizing its central theme and sub-themes that address the dynamic and transformative role of cartography in building a better future. It offers a platform for participants to exchange cutting-edge research, showcase technological innovations, and explore the practical implementation of geospatial tools in areas such as sustainable development, environmental management, urban planning, disaster risk reduction, and digital governance. Geospatial companies and start-ups are especially encouraged to showcase their products and services to this distinguished and professional audience.

We are confident that the congress will provide a rich forum for interdisciplinary dialogue, professional collaboration, and mutual learning. We warmly invite your enthusiastic participation in making the 45th INCA International Congress a remarkable and impactful event in the advancement of cartographic science.

Local Organising Committee

THE CONGRESS

The INCA, established in 1979, is a non-profit professional body. It was an interdisciplinary institution originally between Geographers and Cartographers which is now shared by a host of premier public and private bodies. Today, Cartography along with Geoinformatics is a multifaceted and highly complex domain involving several disciplines to enhance the understanding, creation, analysis, and use of maps as well as geographic information in order to support effective decision making and thus, improving the quality of life. The aims of the association are as follows:

- ▶ To foster cartographic research in the country.
- ▶ To co-operate with professional organisations of cognate disciplines and promote interaction within an inter- disciplinary frame.
- ▶ To co-operate with international organisations with similar objectives.
- ▶ To foster co-operation between government and quasi- government organisations, research institutions engaged in cartographic activities and their applications.
- ▶ To hold an annual cartographic congress at the national or international level.
- ▶ To take such measures 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.

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 19th such memorial lecture.

More Information of INCA can be found at
www.incaindia.org/

The Organiser

National Atlas & Thematic Mapping Organisation

National Atlas and Thematic Mapping Organisation (NATMO), a premier body under the Ministry of Science & Technology, Government of India, Headquarter at Kolkata, specialised in thematic mapping, cartographic standardisation, and geographical research. Since 1956, NATMO has led thematic mapping in India, producing the National Atlas and serving diverse sectors. Now, as a modern geospatial entity, it provides mapping and GIS solutions to government institutions. As geospatial technologies evolve, compelling content is essential for effective outreach. NATMO is uniquely positioned to assist Ministries and Departments in mapping and geospatial needs, supporting data-driven governance and spatial planning. Equipped with the necessary infrastructure and expertise, NATMO stands ready to assist Ministries, Departments and Organisations (MDOs). It is fully prepared to align its efforts with national policy formulation and conduct regional impact assessments of flagship and other ongoing programmes. Additionally, it can support the integration of geographical and geospatial data with demographic data, providing qualitative and quantitative analyses of the impact of various projects and programmes on socio-economic and environmental factors. NATMO's core competencies include: Support in decision-making through spatial data representation, Regional/geographical impact assessment of flagship projects and programmes, Mapping of the Sustainable Development Goals, Braille Mapping, Delineation & Demarcation of Boundaries, Mobile Mapping, Interactive Mapping & Web Applications and Applied Cartography and GIS-based mapping/analysis. NATMO is ready to provide tailored technical support to meet the specific needs of MDOs. The NATMO can make significant strides in building a more informed, sustainable, and responsive nation in advancing effective, data-driven, and spatially informed governance in collaboration with MDOs.



In Association with CUSB

The Central University of South Bihar (CUSB)

The Central University of South Bihar (CUSB), formerly known as the Central University of Bihar, was established under the Central Universities Act, 2009 (Section 25 of 2009) with the motto “Gyan Seva Vimuktaye”- liberation through knowledge. It is one of the 54 Central Universities operating under the Department of Higher Education, Ministry of Education, Government of India. Since its inception in 2009, the university began its academic journey from rented premises at the Birla Institute of Technology (BIT), Patna. Driven by the commitment and enthusiasm of its leadership, faculty, staff, and students, the institution has made significant strides in the field of higher education. In 2018, the university transitioned to its permanent campus at Panchanpur, spread over 300 acres, located approximately 15 km from Gaya town, marking a new chapter in its academic and administrative advancement.

The university campus offers a visually captivating and intellectually enriching environment. Visitors are welcomed by a grand Entrance Plaza, while architectural highlights like the half-globe-shaped Stupa and the multi-storey Administrative Block enhance the scenic beauty. The campus is home to several academic and residential complexes, including the Aryabhata Bhawan (School of Earth, Biological & Environmental Sciences), Chanakya Bhawan (School of Social Sciences & Policy), Malaviya Bhawan (School of Education), Rajarshi Janak Central Library, Vivekananda Lecture Complex, Sangharam Guest House, Veer Savarkar Boys' Hostel, Maitreyi Sadan and Gargi Sadan for girls, the Milkha Singh Sports Stadium, and agricultural fields with fishery ponds. Together, these facilities create an ideal setting for both academic pursuits and extracurricular engagement. With its progressive vision, CUSB continues to carve a niche in the Indian higher education landscape through its policies, programmes, and innovations focused on quality education and cutting-edge research.





In its academic journey, the Central University of South Bihar (CUSB) has made remarkable progress, achieving significant milestones in infrastructure development, establishment of state-of-the-art laboratories, successful execution of research projects, faculty recruitment, and implementation of innovative academic programmes. Since its inception, the university has consistently focused on holistic student development, nurturing academic excellence alongside active engagement in social welfare initiatives. Reflecting its commitment to quality and excellence, CUSB has been recently accredited with Grade A++ by the National Assessment and Accreditation Council (NAAC) and designated as a Category-I University by the University Grants Commission (UGC). CUSB has 26 Departments and runs many flagship programmes like BBA LLB, D Pharma, B. Sc. (H) Agriculture, Computer Science, Data Management & 5 Years Integrated UG-PG Course. The University has also received many prestigious research grants like DST-PURSE, SERB, DST, CBT & ICSSR. The address of the university is Central University of South Bihar, NH-120, Gaya-Panchanpur Road, Post Office- Fatehpur, Gaya - 824236, Bihar, India.



Focal Themes and Sub-Themes

**The main theme identified for 45th INCA International Congress is
'Advances in Cartography for a Better Tomorrow'**

The deliberations of the congress will be on the following sub-themes:

1. Role of Geospatial Technology in Viksit Bharat@2047.
2. Leveraging Geospatial Technologies for the Attainment of Sustainable Development Goals (SDGs)
3. Application of Space Technology in achieving National Missions of India
4. Geo-Spatial Technologies for Disaster Risk Reduction and Emergency Response Planning
5. Drone and UAV-Based Applications for Real-Time Mapping
6. Geospatial Technology, Geo-governance and Policy Support
7. Geospatial Technology for Capacity Building and International Collaboration
8. Exploring Advanced Cartographic Methods Using GeoAI and ML Technologies.
9. Recent trends in Digital Cartography and Space Technology
10. The Future of Cartography/Digital Cartography
11. Academics and Operation Dronagiri in Geospatial Data Infrastructure (GDI)
12. National Geospatial Policy 2022 and Sustainable Development Goals (SDGs)



Call for Papers

Original research papers/case-studies related to the above sub-themes are invited for presentations. Abstracts not exceeding 250-300 words may be submitted online through congress website <https://surl.lu/bjgcpz>

Abstract must be submitted by 15th September 2025. The abstract must include a footnote specifying the sub-theme(s) for which the paper is intended to be evaluated. Authors will be duly intimated regarding acceptance and mode of presentation of paper (oral/poster) by 30th September 2025. A full paper not exceeding 10 pages in prescribed format must be submitted by 5th October 2025.

Important Dates

Last date for submission of abstract	15th September, 2025
Intimation of acceptance of abstract	30th September, 2025
Last date for submission of full paper	05th October, 2025
Payment of registration fee	05th October, 2025
E-mail address for query, if any	45inca@cusb.ac.in

Best Paper Awards

Two best papers in each Sub-theme presented during the 45th INCA International Congress will be suitably rewarded.

Registration Fees

Participants	Indian Delegates	Foreign Delegates	Indian Delegates	Foreign Delegates
	Registration by 05th Oct. 2025		Registration after 05th Oct. 2025	
Life Members	RS. 3540/-	US\$ 125	RS. 4720/-	US\$ 175
Other Delegates	RS. 4720/-	US\$ 125	RS. 5900/-	US\$ 175
Accompanying Person*	RS. 2950/-	US\$ 100	RS. 3540/-	US\$ 100
Research Fellow/ Students	RS. 2350/-	US\$ 100	RS. 2950/-	US\$ 100

*No conference kit for accompanying person

* Registration fees is non-refundable

Payment Details:

Name : 45 INCA International Congress

Bank : State Bank of India (SBI)

A/c No.: 44242495342

IFSC: SBIN0061174

MICR: 823002524

Branch: CUSB GAYA CAMPUS

Registration fee includes conference kit, lunch, snacks and tea served during the sessions. Accompanying registrants will be entitled to participate in all technical and keynote sessions and catering on conference days. Student delegates those who are presenting papers as an author can avail above discounted registration rate. However, they will be required to submit authorisation from the concerned Department of University/ College/ Organisation stating their bonafide status and that they are not employed.

Note: Payment will be accepted only by Online mode(RTGS/NEFT).

Exhibition

An exhibition of geospatial products, services and equipments for Cartographic surveying, remote sensing, GIS, GPS, Drones/UAV, etc. will be organised during the congress, to encourage interested companies, start-ups and governmental/non-governmental organisations, scientific/professional societies to showcase their products and services. This will be of immense benefit to the cartographic and geospatial community. The exhibition stalls shall be allotted on first-come-first-serve basis. As there is a limited space, interested organisations/companies are requested to book their exhibition space well in advance to avoid inconvenience at the last minute. Stall size of 3m x 3m will be available. The charges for all days of the Congress (12-14 November 2025) are as follows:

Stall Size	Cost (Rs.) excluding 18% GST
3m X 3m(One stall)	1,50,000/-
6m X 3m(Two stalls)	2,00,000/-
9m X 3m(Three stalls)	3,00,000/-

The stall booking form is to be filled online with requisite payment by mentioning the details.

For any clarifications regarding the stall and available resources, please contact Dr. Manjit Singh (+91 9718156165, 7303177730). The booking request for exhibition stalls shall not be confirmed without payment.

Cultural Evening

Cultural evening befitting the occasion to provide a glimpse of the vibrant and diverse cultural heritage of Bihar will be organised.

Souvenir

To commemorate the occasion of the 45th INCA International Congress, a Souvenir will be brought out. It will contain the paper abstracts and advertisements with coloured and black & white pages. The rates for publishing the advertisements in the Souvenir (excluding 18% GST) are as under:-

Back Cover (Colour)	Rs.1,50,000 /-
Front/Back Inner Cover (Colour)	Rs.75,000 /-
Full Page (Colour)	Rs.50,000 /-
Full Page (Black & White)	Rs.40,000 /-
Half Page (Black& White)	Rs.25,000 /-

Intending organisations/institutions/companies/start-ups may send their requests by 30th September 2025.

For booking advertisement space in the Souvenir along with 'ready to print' (required colour separates)/pdf advertisement material in hard and digital copy and requisite payment online <https://surl.lu/bjgcpz>

Sponsorship Plans

Leading Cartography and Remote Sensing agencies, GIS companies, Consulting Organisations, Public Sector Organisations, Govt. Departments, Industries, Instrument Manufacturers, Start-ups and other agencies are invited to generously sponsor the 45th INCA International Congress. Detailed sponsorship charges (excluding 18% GST) will be as under 4 broad categories. The Price for each category of sponsor will include one stall of size 3m x 3m and free registration details given as under:

Strategic Sponsor	Rs. 10 lakh (with free registration of 10 delegates)
Platinum Sponsor	Rs. 7.5 lakh (with free registration of 7 delegates)
Gold Sponsor	Rs. 5.0 lakh (with free registration of 5 delegates)
Silver Sponsor	Rs. 3.0 lakh (with free registration of 3 delegates)

Sponsorship Details

Details for sponsoring specific event are as follows:

- (a) Conference Kit: Rs. 6 Lakh*
6 delegates free, folded double page coloured advertisement in souvenir, name on kit bags at one place, 10 min. presentation.
- (b) Patron Sponsor: Rs. 2 Lakh*
3 delegates free, full-page advertisement in souvenir (coloured), 10 min. presentation.
- (c) Cultural Evening: Rs. 1.5 Lakh*
2 delegates free, full-page advertisement in souvenir (mono), 10 min. presentation, banner display.
- (d) Lunch/ Dinner: Rs. 2.5 Lakh*
5 delegates free, full-page advertisement in souvenir (mono), banners in dining area.
- (e) Inaugural Tea: Rs. 1 Lakh*
3 delegates free, half page advertisement in the souvenir (mono), banners in dining area.
- (f) Tea during Breaks: Rs. 50,000* per session
2 delegate free, half page advertisement in the souvenir (mono), banners in dining area.
- (g) Co-Sponsor: Rs. 50,000*
2 Delegate free, half page advertisement in the souvenir (mono), banner display at suitable places.

Organisations/Institutions/Companies desirous of sponsoring may forward the completed sponsorship form to the Organising Secretary along with advertisement material and details by 30th September, 2025.

*Sponsors from the foreign countries shall have to make payment equivalent to Rs. (INR) amount in their respective currencies.

Industry Presentation Session

A session will be arranged exclusively for industry-sponsored presentations. Only those companies/ organisations/ institutes who want to sponsor a major event or setup a stall are permitted to make presentation. This session will provide an opportunity to the sponsors to introduce the state-of-art/latest innovations/OEM's product information to the delegates.

General Information

a) About Gaya District:

- ▶ Gaya Ji and Bodhgaya, located in Bihar, are renowned for their profound historical, cultural, and spiritual significance. These twin destinations attract thousands of pilgrims and tourists from across the world, especially from Buddhist, Hindu, and Jain traditions. From sacred temples to ancient universities, the region is dotted with heritage sites that represent India's rich religious and intellectual legacy. Below are some of the most prominent landmarks with distances mentioned from the university campus

- ▶ Mahabodhi Temple (27 kms):

Recognized as a UNESCO World Heritage Site, the Mahabodhi Temple marks the sacred location where Lord Gautama Buddha attained enlightenment under the Bodhi Tree. This iconic structure is a masterpiece of ancient Indian architecture and serves as the spiritual heart of global Buddhism. The temple complex also includes a descendant of the original Bodhi Tree, making it a place of deep reverence and pilgrimage.



- ▶ Great Buddha Statue (26 kms):

This towering 80-foot statue of Lord Buddha, constructed from sandstone and red granite, stands in meditative posture and symbolizes peace and spiritual awakening. Inaugurated in 1989, it is one of the tallest Buddha statues in India and a prominent attraction in Bodhgaya, drawing both pilgrims and tourists alike.



▶ Vishnupad Temple (17 kms):

Situated on the banks of the Falgu River, the Vishnupad Temple is believed to enshrine Lord Vishnu's footprint in a basalt rock. Rebuilt in 1787 by the Maratha queen Ahilyabai Holkar, the temple is an important Hindu pilgrimage site, especially for performing the ancestral rites known as Pind Daan, which are believed to bring salvation to departed souls.



▶ Mangla Gauri Temple (17 kms):

One of the 18 Maha Shaktipeeths in India, the Mangla Gauri Temple is dedicated to Goddess Shakti. As per Hindu mythology, it is the site where parts of Goddess Sati's body are believed to have fallen. Mentioned in various Puranas such as the Padma, Agni, and Markandeya, the temple holds immense religious significance and attracts devotees, particularly during Navratri.



▶ Gurupa Hill (Gurupada Giri, 65 kms):

Revered by both Buddhists and Hindus, Gurupa Hill is a serene and sacred spot believed to have been visited by Buddhist monks and spiritual seekers. Its panoramic landscape and tranquil environment make it an ideal place for meditation and reflection, enhancing its appeal as a spiritually uplifting destination.



▶ Ruins of Nalanda University (90 kms):

Once the world's first fully residential university, Nalanda was established in the 5th century CE by Gupta emperor Kumargupta I. This ancient seat of learning housed over 10,000 students and 2,000 teachers, and boasted a vast library that spanned nine stories. The site is now a UNESCO World Heritage Site and a symbol of India's rich educational and cultural past, with scholars like Hiuen Tsang having studied and taught here.



b) How to Reach:

- ▶ Gaya Ji Airport is located 25 km from the Central University of South Bihar with domestic flights from major cities like Delhi and Kolkata.
- ▶ Gaya Ji Junction, a major railway station is 15 km from the university, offers regular train services from various cities.
- ▶ By road, Gaya district is well connected via NH-120, and one can travel by bus or cab from nearby city Patna which is 100 km from the University.

c) Accommodation:

The registration fee does not include accommodation. Gaya Ji has large number of Hotels/Tents ranging from budget to luxury/heritage hotels. The accommodation charges may vary from Rs. 1000/- to Rs. 5000/- and more for luxury/heritage hotels. The above rates are only indicative and may vary. Limited guest house accommodation will be available on payment (tariff as per respective institution's rule) and on first-come-first-serve basis. List of hotels with their indicative tariff & contact number will be available shortly on website <https://surl.lu/bjgcpz>. Participants should book their accommodation in advance to avoid last minute rush. Transport will be provided from the hotel identified by the organisers to the conference venue.



Tentative Programme

12th November, 2025

45th INCA INTERNATIONAL CONGRESS
ON ADVANCES IN CARTOGRAPHY FOR A BETTER TOMORROW

09:00 AM	Registration of Delegates
09:45 AM	Inaugural Session
11:15 AM	High Tea
11:30 AM	Special Lecture
01:00 PM	Lunch Break
02:00 PM	Technical Sessions
03:30 PM	Tea Break
03:45 PM	Technical Sessions
07:00 PM	Cultural Programme
08:00 PM	Dinner



Tentative Programme

13th November, 2025

10:00 AM	Technical Sessions
11:30 AM	Tea Break
11:45 AM	Technical Sessions
01:00 AM	Lunch Break
02:00 PM	Technical Sessions
03:30 PM	Tea Break
03:45 PM	Technical Sessions
08:00 PM	Dinner



Tentative Programme

14th November, 2025

11:00 AM	Special Session for Industry Representatives
11:30 AM	Tea Break
11:45 AM	Panel Discussion, Award Ceremony & Valedictory Function
01:00 AM	Lunch Break
02:00 PM	INCA General Body Meeting

Field Visit:

15th November, 2025

CUSB - Barabar Caves- Nalanda- Rajgir- Bodhgaya- CUSB



Local Organising Committee

Patron

Prof. Kameshwar Nath Singh

Hon'ble Vice-Chancellor
Central University of South Bihar, Gaya.

Chairman

Prof. Narendra Kumar Rana

Registrar, Central University of South Bihar, Gaya.

Member Secretary

Prof. Kiran Kumari

Professor, Central University of South Bihar, Gaya.

Organising Secretary & Event Secretariat Focal Point

Dr. Manjit Singh

Associate Prof., Central University of South Bihar, Gaya.

Sub-Committees

Sub-Committees	Coordinator/Members
Press & Media	Dr. Manjit Singh, Purnima
Local Hospitality & Programme Monitoring	Prof. Kiran Kumari, Akash, Ratan Barman
Abstract Registration	Dr. Somnath Bera, Shivam, Pritha Ghosh
Souvenir	Dr. Somnath Bera, Shivam, Vishal Kumar
Cultural Programme	Dr. Sunita Singh, Vaishnavi, Mahi Sinha
Reception & Coordination	Dr. Sunita Singh, Dr. Manjit Singh
Accommodation	Dr. Jogindar Singh Chauhan, Adriza
Food & Refreshment	Dr. Manjit Singh, Rahul Pratap Shahi
Certificate & Venue Decoration	Dr. Sunita Singh, Tarun Kumar, Abhay Kumar
Transport	Dr. Jogindar Singh Chauhan, Vishal Kumar
Correspondence	Dr. Manjit Singh

INCA Executive Committee

President

Dr. Binod Kumar Singh

Past President

Shri. Hitesh kumar S Makwana, IAS

Senior Vice President

Prof. (Dr.) Bimal Kumar Kar

Vice President

Vice Admiral LS Pathania

Vice President

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Vice President

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Secretary- I

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Chairman, Editorial Board

Prof. (Dr.) Bimal Kumar Kar



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Dr. Vandita Srivastava
Dr. Siddhartha Priyadarshi
Dr. Md. Amjad Khan
Shri. Vikas Kumar
Dr. Gaurav Kalotra
Dr. Sucheta Mukherjee

Address Details

Prof. Narendra Kumar Rana

Chairman

Registrar, Central University of South Bihar, Gaya.

&

Dr. Manjit Singh

Organising Secretary

45th INCA International Congress

Central University of South Bihar,

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Postal Code- 824236 (Bihar), India.

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