

1ST NATIONAL CONFERENCE

ROLE OF TECHNO-SCIENCE AND SOCIAL SCIENCE IN TRANSFORMING LIFE AND SOCIETY TOWARDS ACHIEVING SUSTAINABLE DEVELOPMENT GOALS



Organized by

Manipur University, Canchipur, Imphal

In association with

Manipur Science and Technology Council &
Pan India Manipuri Meitei Scientists & Academicians Association

July 16–18, 2025

Auditorium

Manipur University
Canchipur, Imphal

About the Conference

This conference connects academia, industry, and researchers to explore health, environment, and developmental challenges for societal benefit

Tentative Conference Themes

● Water Sustainability

- Water Management, Purification, Wastewater Reuse, Groundwater Conservation

🌍 Environment & Climate

- Climate Change, Forest Conservation, Ecosystem Restoration, Heritage Preservation, Geodynamics

⚡ Green Energy & Transport

- Electric & Sustainable Mobility, Renewable Energy, Hydrogen Innovations, Drone Solutions

🌾 Agriculture & Food

- Sustainable Farming, Food Security, Biodiversity, Bioremediation, Livelihood Development

💊 Health & Well-being

- Medicine, Cancer Treatment, Women's Health, Population Studies, Radiology Applications



IMPORTANT DATES

Abstract Submission Deadline

May 15, 2025

Notification of Abstract Acceptance

June 5, 2025

Last Date of Registration

June 20, 2025

About Manipur University

Manipur University, established in 1980 and centralised in 2005, spans 287.53 acres in Imphal. With 47 departments and 9 Schools, it serves over 7,000 students, fostering innovation, research, and excellence in education.

About MASTEC

MASTEC (Manipur Science and Technology Council) is an autonomous apex organization of the Department of Science and Technology, Government of Manipur, established in 1985, serving as an advisory body for science and technology in the state.

About PIMMSAA

PIMMSAA (Pan India Manipuri Meitei Scientists & Academicians Association) is a network of Meitei/Meetei scientists and academicians dedicated to societal and environmental betterment. Founded in July 2023, it has numerous members and honorary members from top institutes across India, fostering education, employment, and youth empowerment.



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For further details, please contact:

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June 20, 2025

For any queries related to abstract and full paper submissions, please contact:

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INVITATION FOR SUBMISSIONS:

Open to researchers, professionals, students, practitioners, policymakers, and planners. Contributions welcomed on original research, case studies, and best practices.

ABSTRACT SUBMISSION GUIDELINES:

Word Limit: 250-300 words

- Formatting: **Font:** Times New Roman, Size 12, **Spacing:** 1.5-line space

Must Include:

- Title of the paper | Name of the author(s) | Affiliation | Email address and contact information | Keywords related to the study/theme

Deadline for Abstract Submission: May 15, 2025

Submission Method: Abstracts must be submitted to ROTSSSTLS2025@gmail.com.

SELECTION PROCESS:

Shortlisting & Selection: Authors will be notified upon selection via email.

Full Paper Submission: Selected authors will be required to submit the full-length paper later.

PUBLICATION AND AWARDS OPPORTUNITIES:

Selected papers may be published in the Conference Proceedings as special issues, subject to the peer review process.

Selected presentations will receive a citation and a cash reward.

FULL PAPER SUBMISSION GUIDELINES:

Paper Format: Single, Times New Roman, Size 12, 1.5-line spacing

Word Count: 5000-6000 words (excluding references)

Figures & Tables:

- Must be included within the paper.
- Separate jpg formats of illustrations, tables, maps, and photographs should be submitted.
- Ensure copyright ethics compliance.

Structure:

- **First Page:** Title, author(s) names, affiliations, and emails.
- **Second Page:** Title, Abstract, and 5 keywords followed by the main text.

References: Must follow APA format.

Plagiarism Policy: A certificate of originality with plagiarism reports below 10% is required.





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DIAMOND SPONSOR:

- Complimentary registration for **three delegates**
- Inclusion of **advertisement in the delegate kit**
- **Extensive visibility** across communications: **advertisement on the back of the front page of the conference booklet**
- **Prominent banner displays** at the **main gate** and inside the **conference hall**
- **One exhibition stall** for showcasing your offerings



PLATINUM SPONSOR:

- Complimentary registration for **two delegates**
- Inclusion of **advertisement in the delegate kit**
- **Extensive visibility** across communications: **advertisement on the back of the last page of the conference booklet**
- **Prominent banner displays** at the **main gate** and inside the **conference hall**
- **One exhibition stall** for showcasing items



GOLD SPONSOR:

- Complimentary registration for **one delegate**
- Inclusion of **advertisement in the delegate kit**
- **Extensive visibility** across communications: **advertisement within the conference booklet**
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- **One exhibition stall** for showcasing items



SILVER SPONSOR:

- Inclusion of **advertisement in the delegate kit**
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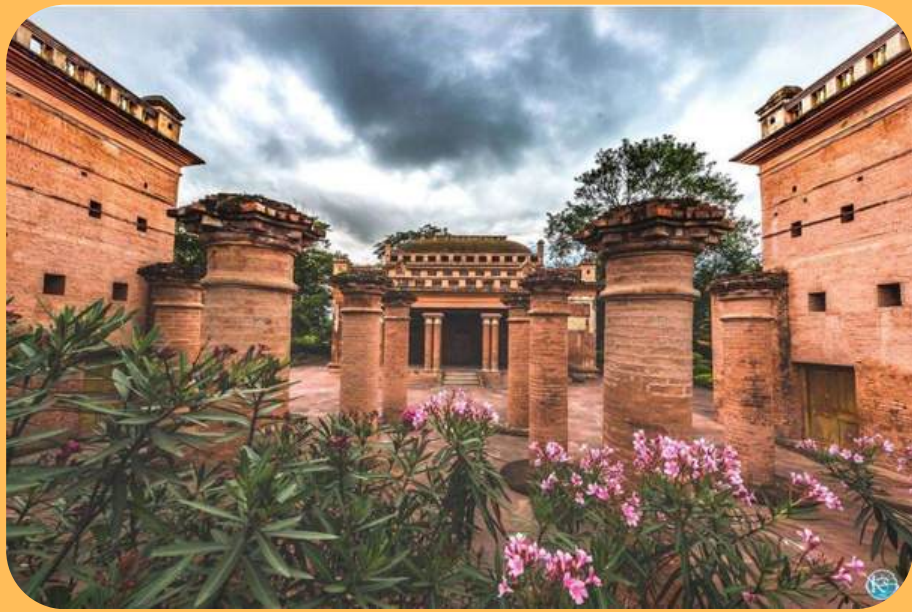




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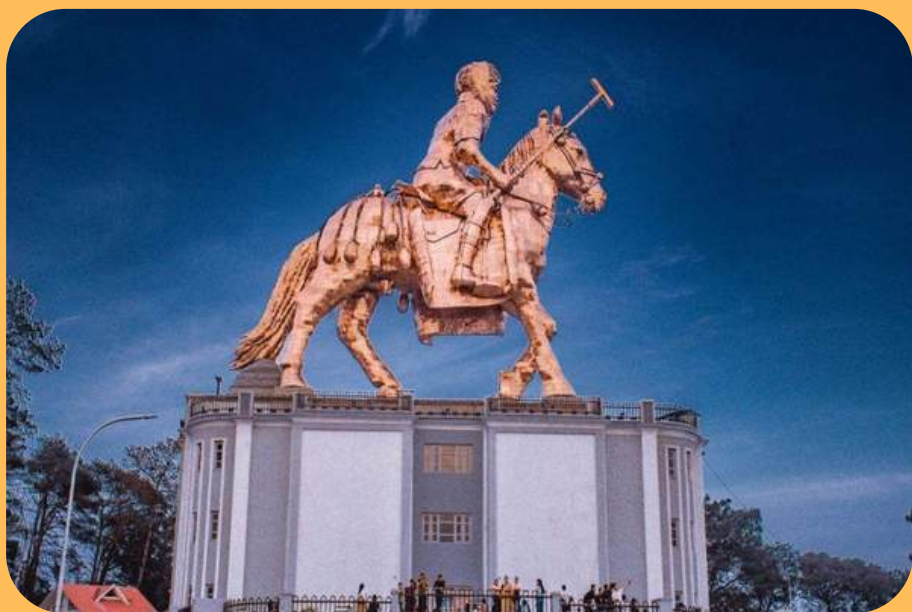
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Canchipur, Imphal



Ruins of Kangla Fort



Govindaji Temple



Marjing Polo Statue

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Students (B.Sc. / B.A. in Social Sciences or Psychology):

₹300

Research Scholars / M.Sc. / B.Tech.:

₹500

Part-time Faculty:

₹1000

Full-time University/College Faculty:

₹3000

Government Officials:

₹3000

Industry Personnel:

₹3000
 (₹1000 if from an Incubation Centre)

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GROUP REGISTRATION DISCOUNTS:

If 5 or more participants register together, one person's registration fee is waived.

If 10 or more participants register together, three participants receive free registration.

EARLY BIRD REGISTRATION OFFER:

Register early to avail of a discounted fee:

₹250 instead of ₹300

₹400 instead of ₹500

₹800 instead of ₹1,000

₹2,500 instead of ₹3,000



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EARLY BIRD REGISTRATION CLOSING ON
June 5, 2025



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Statues of Maichou Taret

- Maichou Khongnangthaba,
- Maichou Konok Thengra,
- Maichou Langol Lukhoi,
- Maichou Moirang Lalthanba,
- Maichou Khongakhul Tepipa,
- Maichou Kharam Thadoi,
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Crafted by: Mr. Tongbram
Seikhasana Meitei, Kakching.
Source: Dennis Elangbam

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Sanamahi Temple at Kangla Fort in Imphal, dedicated to Lainingthou Sanamahi, the supreme deity of Sanamahism.

Source: Sorokhaibam Somarendro

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The Kangla Gate at Kangla Fort in Imphal.
Source: Sorokhaibam Somarendro

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Sanamahi Kiyong, located in Baruni Hills, Manipur – a sacred site for worship in the ancient Sanamahi religious sect.
 Source: Nongthombam Dhiraj Luwang

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 Dr. Thangal Yumnamcha

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 Dr. Th. Joymati Devi

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 Dr. Th. Rojen

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Dept. of Life Sciences (Botany), Manipur University.

Prof. K. Sanatombi Devi,
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Dr. K. Surjit,
Dept. of Chemistry, Manipur University.

Dr. Francis Chipem,
Dept. of Chemistry, Manipur University.

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Dr. Lalleima Chakpram,
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Dr. Aahen Chanu Waikhom,
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Dr. Ishworani Chongtham,
Dept. of Life Sciences (Botany), Manipur University.

Dr. Salam Himika,
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Dr. L. Bina Chanu,
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Dr. A. Darshan,
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Dr. H. Chingthangkomba,
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Dr. Th. Rojen,
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Dr. Khwairakpam Romesh Singh,
Dept. of Forestry, Manipur University.

Dr. Salam Dilip,
Dept. of Forestry, Manipur University.

Dr. Lourembam Romechand Singh,
Dept. of Forestry, Manipur University.

Dr. Robert Panmei,
Dept. of Forestry, Manipur University.



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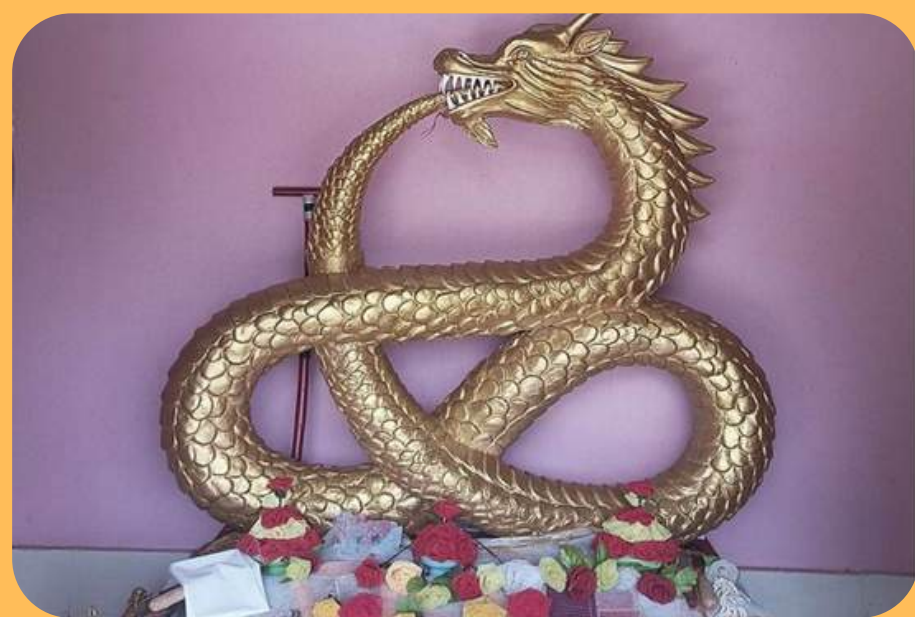




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ROLE OF TECHNO-SCIENCE AND SOCIAL SCIENCE IN TRANSFORMING LIFE AND SOCIETY TOWARDS ACHIEVING SUSTAINABLE DEVELOPMENT GOALS

July 16–18, 2025
Manipur University,
Canchipur, Imphal



Holy sculpture of Pakhangba (Meitei deity) in his dragon form inside the Pakhangba Temple of Kakching, Manipur.
Source: Wikimedia

KEY SPEAKERS

KEY SPEAKERS (TENTATIVE LIST)

Prof. GSN Murthy

National Coordinator, Indian Knowledge System (IKS) a division of AICTE, New Delhi, MoE.

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Indian Knowledge Systems: Their Relevance in a Changing World

Dr. SD Sharma

Head, Medical Physics Section, BARC, Mumbai.

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Human Resource Development for Safe Use of Ionising Radiation

Dr. Sorokhaibam Somarendro Singh

Senior Scientist (Hydrogeology), Central Ground Water Board, Dept. of Water Resource, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, Govt. of India, North Eastern Region, Guwahati.

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Groundwater Potentials of Manipur, its Sustainable Development and Management (in Domestic, Irrigation & Industrial)

Dr. Sobhindro Singh Puyam

Chief Scientist and Divisional Chair, Membrane Science & Separation Technology, CSIR CSMCRI, Professor Academy of Scientific & Innovative Research (AcSIR) Bhavnagar, Gujarat.

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Cutting-edge Technologies to Provide Affordable, Sustainable, and Pure Water

Shri Pradip Phanjoubam

Editor, Imphal Review of Arts and Politics, Imphal.

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The New Unfolding Great Game and the Indo-Myanmar Region

Dr. Gunadhor Singh Okram

Scientist/ Engineer G, UGC-DAE Consortium for Scientific Research, Indore, Madhya Pradesh.

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My Health Experience with Nasopharyngeal Cancer, Food, and Yogasan

Dr. Arun Oinam

Additional Professor (Medical Physics), Radiotherapy and Clinical Oncology Department, Post Graduate Institute of Medical Education and Research, Chandigarh, India.

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Radiobiological Explanation of How Radiation Can Be Used for Cancer Treatment

Dr. Chingakham Brajakishor Singh

Scientist E (Plant Bioresource Division), Institute of Bioresource and Sustainable Development, Sikkim, Manipur.

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Medicinal and Aromatic Plants of Manipur and Their Future Prospects

Prof. Laishram Ladu Singh

Former VC IIPS, Mumbai and Former VC, Bodoland University, Emeritus Professor at Royal Global University, Guwahati.

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Two Facets of Population and Epidemiological Changes



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Two Hiyang Hiren (Royal racing boats) alongside two Tanna (commoners' racing boats) preserved inside the Hijagang (boathouse) in Kangla Fort, Imphal.
Source: www.tripadvisor.in

KEY SPEAKERS

KEY SPEAKERS

Mrs. Reena Devi Phurailatpam

Medical Physicist (Scientist F), Department of Radiation Oncology, ACTREC, Tata Memorial Centre, Department of Atomic Energy, Government of India, Mumbai.

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Role of a Physicist in Radiation Oncology

Shri Ranjankumar Singh Khaidem

Head, Regulatory Effectiveness Assessment Section, AERB, Mumbai.

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Applications of Ionising Radiation for Societal Benefits - Recent Trends and Regulatory Aspects

Dr. Lairenlakpam Robindro

Senior Principal Scientist

Automotive Fuels and Lubricants Application Division (AFLAD), CSIR-Indian Institute of Petroleum (IIP), Dehradun, Uttarakhand.

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Sustainable Future Transport Systems: Exploring Hydrogen and Autonomous Vehicles

Shri Subhash Puyam

Scientist-SF, In-charge AI Lab & Information Security Officer, North Eastern Space Applications Centre-ISRO, Member IIP-DISM, ISRO Department of Space, Government of India, Shillong.

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From Sight to Action: Towards Socio-Economic Security Using Space Technology

Dr. Sanasam Somokanta Singh

MIMS, Manipur University, Imphal.

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Applications of VR, AR, and Metaverse: Shaping Future Developments and Opportunities

Dr. Khuraijam Jiban Singh

Senior Scientist & Head, Botanic Garden, CSIR-National Botanical Research Institute, Lucknow.

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Livelihood and Entrepreneurship Opportunities in Floriculture.

Dr. Chitrasen Lairenjam

Associate Professor, Department of Agricultural Engineering, Nagaland University, Nagaland.

[✉ chitrasen@nagalanduniversity.ac.in](mailto:chitrasen@nagalanduniversity.ac.in)

Traditional Water Management Systems: A Glimpse into the Practices of Northeast India

Shri Mutum Biswanath Sinha

Director of Policy and Technical Support, WaterAid, Delhi.

[✉ biswanathsinha@wateraid.org](mailto:biswanathsinha@wateraid.org)

The Impact and Relevance of Community Conserved Areas in Manipur



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Shrine of Lainingthou Khoriphaba at Nambol. In Meitei mythology, he is the son of Salailen, the God of the Sky, and Konthoujam Tampha Lairembi, born in Heaven.
Source: Rappa Khangembam

KEY SPEAKERS

KEY SPEAKERS

Dr. Wahengbam Romi

Scientist, Biological Sciences and Technology Division, CSIR-North East Institute of Science and Technology (CSIR-NEIST) & Assistant Professor, Faculty of Biological Sciences, Academy of Scientific & Innovative Research (AcSIR), Jorhat, Assam.

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Harnessing Traditional Fermented Foods and the Microbiome: Insights into Improving Gut Health and Cardiometabolic Disorders

Prof. Potsangbam Albino Kumar

Department of Civil Engineering, NIT Manipur.

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Machine Learning and AI for Efficient Biofilter Design Leveraging Indigenous Biomaterials in Manipur

Dr. Melody Kshetrimayum

Assistant Professor, Humanities and Languages & The India Centre, FLAME University, Lavale, Pune, Maharashtra.

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WASH and Menstrual Health Management

Prof. Athokpam Krishnakanta Singh

Professor and Head, Department of Applied Geology, Dr. Harisingh Gour University (A Central University), Sagar, Madhya Pradesh.

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Remnants of Ancient Oceanic Lithosphere in the Eastern Margin of Indian Plate: What, Why, When and Where?

Prof. Ngangkham Joykumar Singh

Professor, College of Food Technology, Central Agricultural University, Imphal.

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Developing Sustainable Livelihoods Through Post-Harvest Handling and Processing of Fruits and Vegetables in Northeast India

Prof. Khuraijam Mohan Singh

Principal, Thambalmarik College, Oinam.

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Slope Stability Analysis of Nung Dolan Landslide, NH-37 Manipur, NE-India: Geotechnical approach

Prof. Yengkhom Raghmani Singh

HoD, Department of Earth Science, Manipur University, Imphal.

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Hydrocarbon Potential of Manipur Region

Dr. Sinam Yoirentomba Singh

Deputy Director, MSME Imphal, Government of India, Imphal.

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Technological Intervention for Optimising Potential into Prosperity: Bioresources Perspective

Dr. Nambram Sushibala Devi

Assistant Professor, VESCOA, Mumbai University, Mumbai.

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Dwindling Nature in Imphal: Urban Heat Islands and Water Scarcity Amid the Loss of Green and Blue Spaces



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Host City at a Glance

Imphal, known for its rich cultural heritage and historic landmarks, is the administrative capital of Manipur. This was the birthplace of modern “Polo”. From ancient forts and sacred temples to bustling markets run entirely by women, the city offers a unique glimpse into the soul of Northeast India.



Govindajee Temple

Located next to Royal Palace, it is a majestic shrine dedicated to Lord Krishna & Radha. Known for its elegant gold-coated twin domes and a large sanctum, it symbolizes Manipur’s rich religious & cultural heritage.



Kaina Temple

It crowns the 921-meter-high Kaina hillock on the Imphal–Yairipok road, enshrining the sacred jackfruit tree from which King Bhagya Chandra was divinely guided to carve Lord Govinda’s idol in the 18th century.



Kangla Sha Gate

Flanked by symbolic twin eighteen-foot-high sculptures of the mythical guardian beast known as *Kangla Sha*, it marks the grand entrance to the ancient Kangla Fort in Imphal, Manipur.



Shaheed Minar (Martyr’s Memorial)

At the heart of Imphal, this imposing pillars crowned with intricately carved mythical guardian beast, *Kangla Sha*, stands as a symbol of valor and spiritual guardianship of the patriots of Manipur, including Crown Prince Bir Tikendrajit Singh, who were executed by the British after the Anglo-Manipuri War of 1891.



Kangla Sanathong

Also known as the Kangla Gate, it is the 'The Royal Entrance to Kangla' situated on the western entrance to the Kangla Fort, the Centre of Manipur's power till the British took over the state in 1891. It bears the marks of the ancestral forefathers and the Kings who ruled Manipur.



Imphal War Cemetery

The Imphal War Cemetery, maintained by the Commonwealth War Graves Commission, is the final resting place of 1,600 Commonwealth servicemen who fell during WWII in the pivotal Battle of Imphal in 1944. This tranquil memorial serves as a poignant testament to their sacrifice.



Manipur State Meseum

Inaugurated on 23 September 1969, the Manipur State Museum presents a rich array of cultural and historical treasures — from archaeological artifacts and ethnological displays to the iconic 78-foot *Hiyang Hiren* royal boat in its open gallery, encapsulating the diverse civilizational narrative of Manipur.



Traditional Manipuri Cuisine

Often served on neatly designed banana leaves, this vibrant spread of dishes showcases Manipur’s culinary ethos of balancing subtle herbs, tangy fermentations like *Ngari* (fermented fish), *Hawaijar* (fermented soybean) and the natural bounty of local produce passed down through generations.



Ema Keithel

“Ema” meaning “Mother”, it is world’s only market run entirely by women — around 5,000–6,000 “Emas” trade fresh produce, textiles, handicrafts and household goods. It epitomizes women’s economic empowerment and Meitei trading heritage, standing today as a vibrant cultural symbol of Manipur’s matriarchal legacy.