

DAE-BRNS Symposium on Current Trends in Theoretical Chemistry (CTTC-2024)

September 26-28, 2024

DAE Convention Centre, Anushaktinagar
Mumbai – 400094, INDIA

The DAE-BRNS Symposium on Current Trends in Theoretical Chemistry (CTTC-2024) is being organized by Theoretical Chemistry Section, Chemistry Division, Bhabha Atomic Research Centre from 26 to 28 September, 2024. Formulation of newer and more powerful theoretical tools, cutting edge modelling strategies and robust simulation techniques form an ongoing and integral part of research activities in theoretical chemistry. In view of the nature and wide applicability of this subject, one of the major national needs is to bring various Indian researchers in a single platform to discuss current progress, challenges and pitfalls. The objective of CTTC-2024 is to provide a fertile ground for intense discussion on the thriving newer areas in theoretical chemistry and thereby setting up the course for future directions and shedding light into potentially more powerful applications of theoretical chemistry in interdisciplinary areas. The proceeding of the symposium will constitute keynote addresses, invited talks and presentation of contributory papers as posters.

Topics to be covered

- Recent Advances in the Theoretical Formalisms and Simulation Methodologies
- Machine Learning and Artificial Intelligence in Chemistry
- Modeling, Theory, and Simulation in Nuclear Fuel and Waste Management Research
- Theoretical and Computational Chemistry in Understanding Radiation Damages in Nuclear Materials
- Theoretical Design of Molecules and Materials Pertaining to Energy Research
- Modeling, Theory, and Simulation in Soft Condensed Matter
- Electronic Structure and Spectroscopy of Atoms, Molecules, Clusters, Nanomaterials, and Solids
- Computational Chemistry of Molecules and Materials under Extreme Conditions
- Experiment Driven Theoretical Investigations
- Modeling, Theory and Simulation for the Exploration of Biological Phenomena and Drug Design

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| | Krishna Mohan, T. V. | |
| | Maity, D. K. | |

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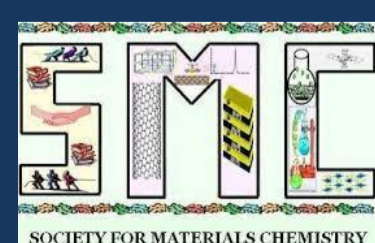
Please contact

Convener, CTTC-2024

Theoretical Chemistry Section, Chemistry Division
Bhabha Atomic Research Centre, Trombay, Mumbai 400085, INDIA
Fax: 91-22-2550 5331/5150/5151 Tel: 91-22-2559 5607
Email: cttcmumbai@gmail.com

Organized by
Chemistry Division
Bhabha Atomic Research Centre
Mumbai – 400085, INDIA

In Association with
Society for Materials Chemistry
Chemistry Division
Bhabha Atomic Research Centre
Mumbai – 400085, INDIA



Bank / NEFT Details
Bank Name: State Bank of India
Branch: BARC, Trombay, Mumbai-400085
Beneficiary Name: CTTC 2024
A/C No: 42863117732
IFSC Code: SBIN0001268
MICR Code: 400002006

Registration Fees	
Faculty	INR 8000
Student	INR 5000
Overseas Participants (Faculty & Student)	USD 500
Industry	INR 10000

Key Dates	
Closing of Online Registration	1 Aug 2024
Closing of Online Abstract (Contributory Posters)	07 Aug 2024
Closing of Abstract Submission (Invited Talks)	07 Aug 2024
Payment of Registration Fees (on or before)	07 Aug 2024



REGISTRATION DETAILS AND FEE STRUCTURE

All the participants of CTTC-2024 are requested to get registered in advance by filling the registration form online on symposium website (<https://www.cttcmbai.org.in>) and providing registration fee details. Registration fee should be credited to CTTC-2024 account by online transfer/RTGS/NEFT mode only. Payment made by other modes will not be taken into consideration. The registration fee covers electronic copy of symposium proceedings (CD/E-copy), lunch, dinner and refreshments during the symposium period, but does not cover the accommodation charges. The registration fee is non-refundable.

CTTC-2024 Bank Account Details :

Bank Name: State Bank of India
Branch: BARC, Trombay, Mumbai-400085
Beneficiary Name: CTTC 2024
A/C No: 42863117732
IFSC Code: SBIN0001268
MICR Code: 400002006

Registration Fee Details

Faculty / Employee	INR 8000
Accompanying person if any	INR 8000 (per person)
*Student/research scholar/research associate	INR 5000
‡Overseas Participants (Faculty & Student)	USD 500
Accompanying person if any	USD 500 (per person)
Industry	INR 10000

*Student/research scholar/research associate participants need to pay their accommodation charges directly to the receptionist in the guest house (TSH)/hostel(NBH) during check out.

‡Overseas participants must obtain Business VISA to attend the symposium. Tourist VISA holders are not permitted to attend CTTC-2024.

ACCOMMODATION

Affordable accommodation will be arranged either at guest house or at nearby hotels on payment basis. Accommodation booking link will be updated in the symposium website (<https://www.cttcmbai.org.in>)

TRAVEL ASSISTANCE

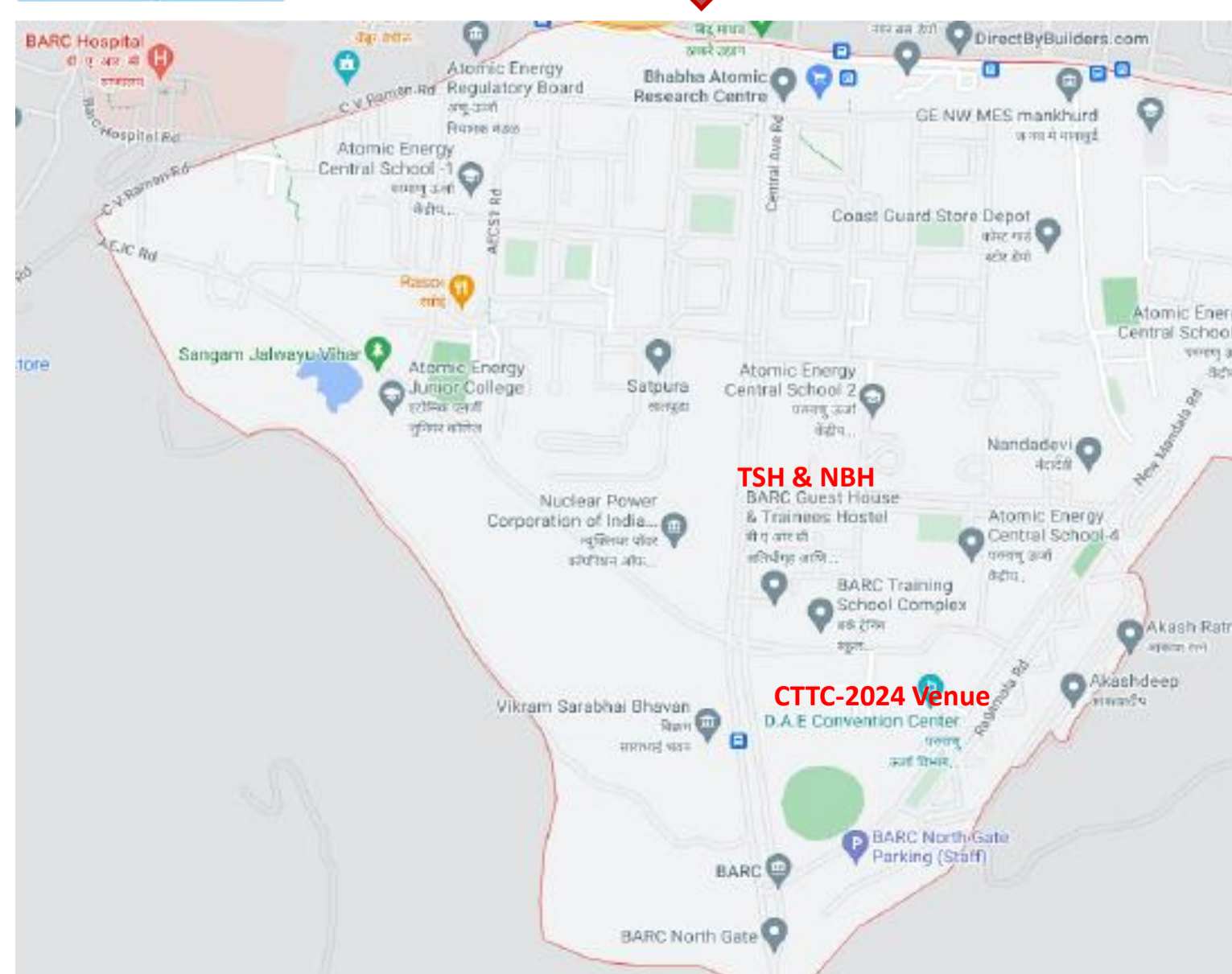
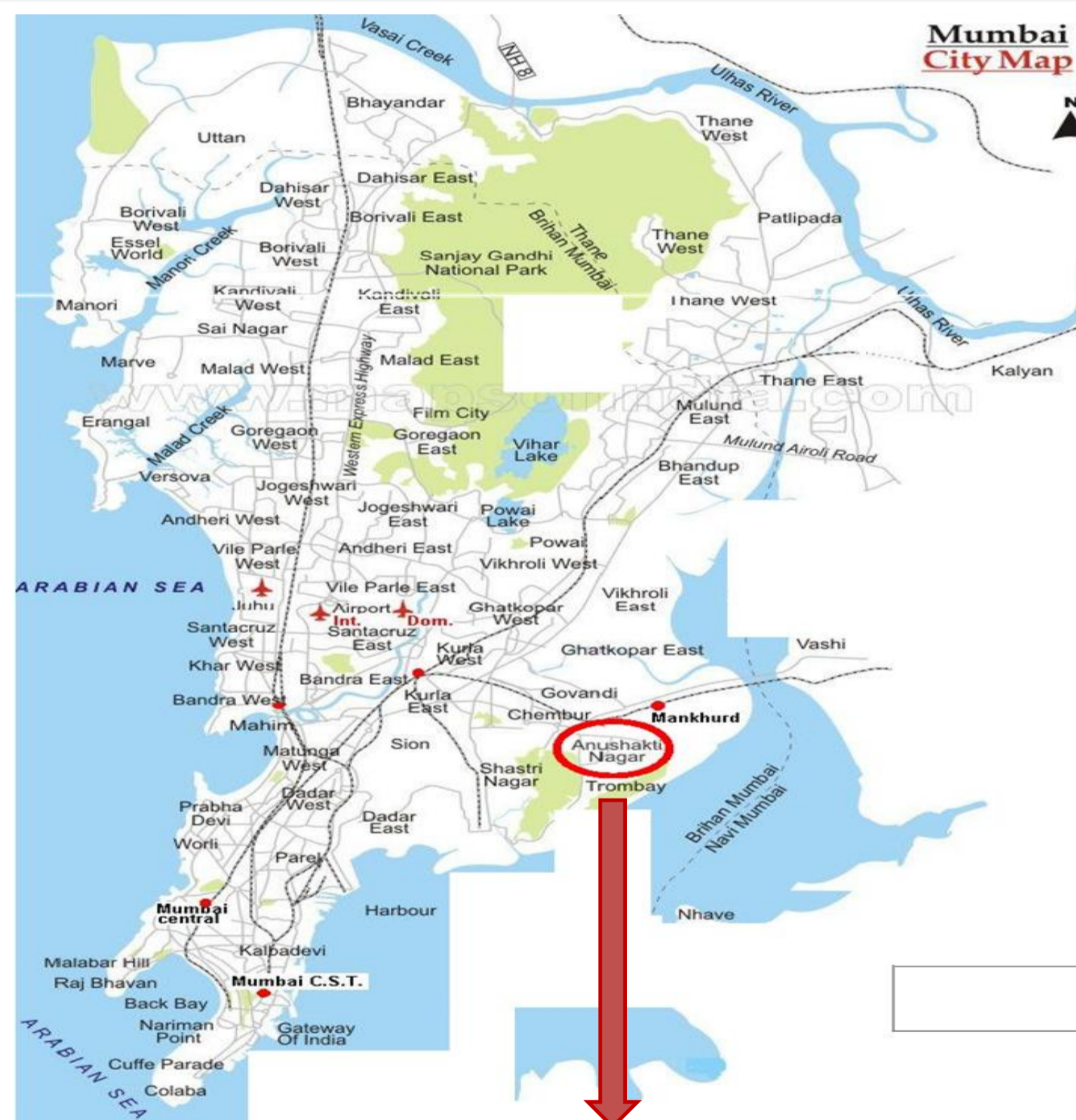
Participants of CTTC-2024 are requested to make their own travel arrangements. Financial assistance by AC-3 tier train fare for shortest route of travel may be available to a limited number of students/ research scholars/ RA presenting poster, in case their institute is unable to arrange for the same. Requests for financial assistance must be forwarded through the Director/Head of the parent institution to the Secretary, CTTC-2024, positively by August 31, 2024. On the spot requests for travel assistance will not be entertained.

CTTC-2024 VENUE: DAE-CONVENTION CENTRE, ANUSHAKTINAGAR, MUMBAI

DAE-Convention Centre is located in Anushaktinagar (adjacent to North Gate car parking), the residential colony of Department of Atomic Energy (DAE) and its parent institute Bhabha Atomic Research Centre (BARC), Mumbai. BARC is the premier multidisciplinary Nuclear Research Centre of India. Anushaktinagar is located at the north-eastern suburban of island city, Mumbai. Mumbai is well connected to other parts of India and to the rest of the world. Participants arriving by train may alight at Dadar, Mumbai Central, Mumbai CST, Lokmanya Tilak Terminus or Bandra Terminus. Those travelling by air will arrive at Chhatrapati Shivaji Maharaj International Airport (CSMIA). Anushaktinagar is about 20 km from Mumbai CST, less than 30 km from the other terminals, and about 20 km from the international airport (CSMIA). Black-Yellow-metered taxis, app based cabs like ola, uber etc. are available at airports and railway stations. Delegates coming by flights are advised to take taxi from pre-paid taxi service kiosks at the airport. Taxi fares are based on tariff related to the meter readings. Anushaktinagar is also approachable by the harbour branch of local trains that start from Mumbai CST and pass through Mankhurd station. Those availing local trains may alight at Mankhurd station and take auto-rickshaw from there for reaching the BARC Guest House located at Anushaktinagar. All the participant are requested to keep a Government recognized ID card (e.g passport, Pan, Aadhaar etc) and participation document (paper acceptance letter or invitation letter) ready and are required during your entry to Anushaktinagar. A Mumbai city map is shown below for your reference, which included an enlarged view of Anushaktinagar showing the CTTC-2024 venue and various guest houses.



MUMBAI CITY MAP LOCATING THE VENUE



PREPARATION & SUBMISSION OF CONTRIBUTORY PAPER

Desirous participants may submit their contributory papers as per the template (given below) on the symposium website (<https://www.cttcmumbai.org.in>) before August 07, 2024. Acceptance of papers will be communicated to the corresponding author by August 07, 2024.

ABSTRACT TEMPLATE

Category (e.g. A to L)

(It is mandatory to write the category of the poster, for details visit symposium website and brochure)

The Title of the Paper should be in this Format with Each Initial Letter in Capital Case

Author's Name^a, Author's Name^b and Author's Name*

^aReplace this text with author's affiliations (use complete addresses)
Continue Here

^bIf more than one affiliation is need, they should be indicated by superscript letters, a, b, c, etc. as shown above.

[The title, authors, affiliations and addresses should be centred. The name of the corresponding author should be highlighted by asterisk (*). Leave one space each between the title, authors, addresses and content of the paper. The affiliation should include the institution, department, and country in this sequence.]

* Presenting author's name should be marked with asterisk (*) and his/her email id. and Telephone Number should be provided here

The text itself should be justified. Leave one space between the paragraphs.

The layout of the figures should be in line with text and centre aligned along with the caption. The authors may take care to provide figures with good resolution as these will be reproduced as submitted.

Enough scientific information about the work should be reflected in the text and the space of one page should be complexly utilised.

Place your figure here if any

Figure 1. Figure caption should be in Times New Roman 10 font and figures should be imported as graphics, if figures are in more than one part label them as (a), (b), etc.

Table 1. Table caption in Times New Roman, 10 font. Both caption and table centre aligned w. r. t. the page.

Heading 1 (Font 10, Bold)	Heading 2 (Font 10, Bold)	Heading 3 (Font 10, Bold)
Description (Font 10, regular)	Description (Font 10, regular)	Description (Font 10, regular)
Description (Font 10, regular)	Description (Font 10, regular)	Description (Font 10, regular)

Abstract of Contributory poster must be restricted to One Page only and it is mandatory to utilize Full One Page for the paper.

References

1. A. First, B. Second and C. Third, *Journal*, Volume (YYYY) Page number i.e. 10 (2021) 344-350.

References are to be indicated by square brackets in the text (e.g. [1]), and given in the format shown above using "Times New Roman" font (10 pt). Leave one space between the text and references.

BOARD OF RESEARCH IN NUCLEAR SCIENCES

Board of Research in Nuclear Sciences (BRNS) supports research and development activity in universities, institutes of higher learning and national laboratories in the fields relevant to the mandate of Department of Atomic Energy. BRNS also supports symposia, conferences, seminars and workshops in various areas of science and technology.

SOCIETY FOR MATERIALS CHEMISTRY

The Society for Materials Chemistry (SMC) was founded in 2007 at BARC, Mumbai, with Chemistry Division, BARC, as its headquarters. SMC is now a registered public trust with more than 2000 life members. The Society provides a common platform to young researchers and active scientists in the area of Materials Chemistry by arranging biennial symposia (CTTC, ISMC) and National workshops.

ISLAND CITY OF MUMBAI

Mumbai, formerly known as Bombay, is a major metropolitan city, the state capital of Maharashtra and also the economic capital of India. It has historically evolved out of a group of seven islands in the Arabian Sea which lies off the northern Konkan coast on the west of Maharashtra. Today, it is inhabited by about 21 million people from all over the country. Mumbai's climate is warm and humid for most part of the year. The sky remains cloudy during September with temperatures generally within 20 to 28 degree Celsius. As this is the last month of Mumbai monsoon season, do not forget to carry your own rain gears like umbrella.

Major Tourist attractions

The Asiatic Society of Mumbai, Bombay Natural History Museum, Bombay Stock Exchange, Elephanta Caves, Film City, Gateway of India, Haji Ali Dargah, Jehangir Art Gallery, Kanheri Caves, Marine Drive (earlier Queen's Necklace), Chowpatty Beach, Nehru Planetarium, ISKCON Temple, Vihar Lake, Chhatrapati Shivaji Maharaj Vastu

Sangrahalaya (formerly Prince of Wales Museum), Sanjay Gandhi National Park (formerly Borivali National Park), CSMT (formerly Victoria Terminus) and Bandra-Worli Sea Link, Atal Setu.

People, Art, Culture and Industry

A resident of Mumbai is called a Mumbaikar, Mumbaite or Bombayite. Life of an average Mumbaikar is very fast-paced. Mumbai is the birthplace of Indian cinema, with the oldest film made here in the early 20th century. The city also has a thriving theatrical tradition in Marathi, Hindi, Urdu, English and other regional languages. Contemporary art is well-represented in both government funded art spaces and private commercial galleries. The government-funded art galleries include The Jehangir Art Gallery and The National Gallery of Modern Art. Built in 1833, the Asiatic Society of Mumbai is the oldest public library in the city. Being a cosmopolitan city both Western and Indian festivals are celebrated with great fanfare by residents of all communities and religions. Diwali, Holi, Christmas, Navratri, Good Friday, Eid, Dussera, Moharram, Ganesh Chaturthi, and Maha Shivratri are some of the most popular festivals in the city. Mumbai has a vast array of different industries which include pharmaceuticals, construction, engineering, metals, silks, glassware, printing, plastics, bikes and film. However, textiles are still Mumbai's largest industry. It also has a large petroleum industry. Nearly all of India's petroleum is marketed through Mumbai.

Academic & Research Organizations

There are several academic and research organizations in Mumbai and these include-Bhabha Atomic Research Centre (BARC), Tata Institute of Fundamental Research (TIFR), Indian Institute of Technology, Bombay (IIT, Bombay), Mumbai University, Institute of Chemical Technology (ICT), Tata Institute of Social Sciences, SNDT University, Institute of Science, Homi Bhabha National Institute, UM-DAE Centre for Excellence in Basic Sciences (CEBS),etc

PASSPORT DETAILS REQUIRED FROM OVERSEAS PARTICIPANTS*

Full Name	
Date of Birth	
Place of Birth	
Father's/Husband's Name	
Designation & Affiliation	
Nationality	
Passport Number	
Date & Place of Issue	
Passport Issuing Authority	
Expiry Date of Passport	
Present Address	
Permanent Address	
Telephone (Office & Residence)	
Fax	
Email	
Date	
Signature	

*Overseas participants must obtain Business VISA to attend the symposium. Tourist VISA holders are not permitted to attend CTTC-2024.

Send the above form along with the scan copy of first two, last two and cover pages of your passport to Secretary / Jt. Secretary by email: cttcmumbai@gmail.com.

IMPORTANT TO REMEMBER

- All the participant are required to keep a Government recognized ID card (e.g. Passport, Pan, Aadhaar etc.) and participation document (acceptance letter or invitation letter) ready to enter the Anushaktinagar premises. Passport is must for Overseas participants .
- Participants are requested to carry their emergency or daily medicine (if any) along with them, though many Pharmacist / Chemist shops are available inside and adjacent to Anushaktinagar.
- Participants are also requested to carry their own rain gear (e.g. umbrella) as there may occasional rainfall in Mumbai during the month of September.