

VENUE

The Institution of Engineers, Bangladesh
Headquarters, Ramna, Dhaka 1000, Bangladesh

ABOUT THE VENUE

Dhaka, the venue selected for the 60th Annual Convention and the National Seminar is the capital of Bangladesh. The city has its exciting history and rich culture and is known to the world as the city of mosques and muslims.

It has history dating back to earliest time. However, the exact date of its foundation is not known. However, according to recorded history it was founded in 1608 A.D. as the seat of the imperial Mughal Viceroy of Bengal.

Dhaka as the capital of Bangladesh has grown into a busy city of about seven million people with an area of about 815 sq. km. Having a happy blending of old and new architectural trends, Dhaka has been developing fast as a modern city and is throbbing with activities in all spheres of life. It is the centre of industrial, commercial, cultural, educational and political activities for Bangladesh. At Tongi Teigaon, Demra, Pagla, Kanchpur the industrial establishments turn-out daily necessities. Motijheel is the main commercial area of the city. Dhaka's major waterfront Sadarghat is on the bank of the river Buriganga and is crowded with all kinds of river craft, yachts, country boats, motor launches, paddle - steamers, fishermen's boats all bustling with activity. Colourful rickshaws (tricycle) on the city streets are common attractions for the visitors.

GENERAL INFORMATION:

Area: 815.85 Sq. kilometres (approx.), Population: Seven million (approx.), Climate: Tropical, with heavy rainfall and bright sunshine in the monsoon and warm for the greater part of the year. The winter months, from November to March, are however, most likeable, cool and pleasant. The maximum and the minimum temperatures during summer and 36.7°C and 21.1°C respectively. In winter it these are around 31.7°C and 10.5°C, respectively. The annual rainfall is 2540 mm. The voltage of electricity throughout Bangladesh is 220 volts.

FIELD TRIPS

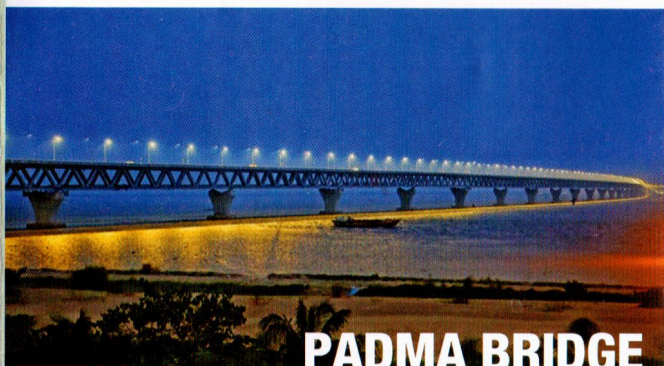
A series of tour program covers different tourist attractions and engineering installations located in and around Dhaka City. Pre-registration to the Annual Convention is a pre-requisite for attending these field trips.



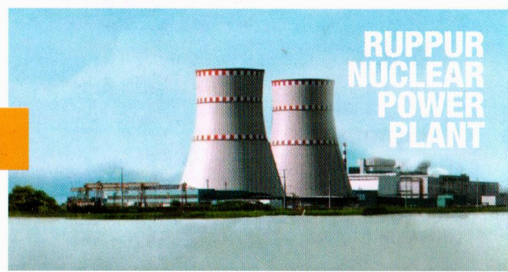
KARNAPHULI TUNNEL



METRORAIL



PADMA BRIDGE



**RUPPUR
NUCLEAR
POWER
PLANT**



60th ANNUAL CONVENTION DHAKA 2023

National Seminar on Fourth Industrial Revolution : Preparedness in Society and Industry

23-28 February 2023
Dhaka, Bangladesh



The Institution of Engineers, Bangladesh (IEB)
Shaheed Prokaushali Bhaban
IEB Headquarters : Ramna, Dhaka 1000

INVITATION

It is our pleasure to introduce the Institution of Engineers, Bangladesh (IEB) as the lone professional organization for the engineers in Bangladesh that represents the engineering community of the country. Since its inception on 7th May, 1948, the Institution is serving the nation through the practice of engineering science and continuously improving the professional standards of its members. The institution has specialised divisions in civil engineering, mechanical engineering, electrical engineering, chemical engineering and agricultural engineering. The institution has 18 centres, 33 sub-centres across the country along with 13 overseas chapters. To promote the profession all over the world, the Institution has bilateral agreements of professional cooperation with various brotherly professional associations across the globe. To pursue the continuing education and also to establish a recognised professional standard, the Institution has established Engineering Staff College and the Bangladesh Professional Engineers Registration Board. Over the decades, the Institution is organising the Annual Convention and National Seminars once in every year to strengthen the ties between the professionals all over the world.

We have the pleasure to inform you that the 60th Convention of The Institution of Engineers, Bangladesh (IEB) is going to be held from 23-28 February, 2023 in the capital city, Dhaka. About 6000 Engineers from home and abroad are expected to join in the convention program. Leading Engineers, Technologist, Academicians will also join in the convention and will take part in the National Seminar, Memorial Lectures and Technical Discussion Sessions.

Sheikh Hasina, Hon'ble Prime Minister, Government of the People's Republic of Bangladesh has kindly consented to inaugurate this grand engineering convention of the country on 25 February 2023.

Begum Rowshan Ershad, Hon'ble Leader of the Opposition has also consented to be the Chief Guest in the Closing Ceremony.

The main theme of this Convention is **"Innovative Engineering in the 4th Industrial Revolution"** while the theme of the National Seminar is **"Fourth Industrial Revolution : Preparedness in Society and Industry"**.

On this occasion, we are delighted to wishing you to present a paper on the above theme in the National Seminar of the Convention.

We hope that you will accept our invitation and join us in this grand occasion. Your kind co-operation and contribution to the seminar will encourage us to achieve our goal.

Engr. Md. Shahadat Hossain (Shiblu), PEng.
Honorary General Secretary

CALL FOR PAPERS

Papers are invited for the National Seminar. Papers should be based on practical study, experience or research in actual working environment and should be prepared as per Guidelines for Preparation of Papers. Practicing engineers and technologists are especially encouraged to participate.

"Digital Bangladesh" started in 2009 is playing vital role for converting Bangladesh as the global leader of economic growth. Establishments and progresses of knowledge-based industries, metrorail, elevated expressway, Padma bridge, Karnaphuli tunnel, high-tech parks, connectivity throughout the country and young entrepreneurship are some key visionary initiatives taken by the government for the sustainable development. Uses of information, computing and communication technologies create new arena for engineering development in 4th industrial revolution. Engineers are rethinking to use these technologies for designing products, methodologies and procedures. With the motto of building an innovative future, the theme of 60th IEB Convention has been fixed as "Innovative Engineering in the 4th Industrial Revolution" and the topic of the national seminar has been set as "Fourth Industrial Revolution : Preparedness in Society and Industry".

GUIDE LINES FOR PREPARATION OF PAPER

1. The language of the National Seminar shall be English.
2. Type papers single spaced on A-4 size paper using MS Word & PDF leaving margins of 40 mm on top and left side and 30 mm on the right and bottom. Total length of the paper should not exceed 10 pages including figures etc. A soft copy of the paper shall be submitted to Institution of Engineers at iebconventionpaper@gmail.com
3. Title of the paper should be in capital letters and centred. This should be followed by four spaces and then by the names and addresses of the authors. The text should be divided into major sections.
4. References cited in the text may be listed alphabetically at the end of papers. The word 'REFERENCES' should be capitalized and centred above the list of references.

ESSENTIAL DEADLINES

February 14, 2023	Deadline for receipt of full paper as per prescribed format with soft and hard copy
February 09, 2023	Deadline for information about acceptance of papers: (Only unaccepted papers)
February 16, 2023	Deadline for information about attendance as a delegate.

PUBLICATION

Only the accepted papers will be published in the proceedings. For publication, submission of papers in prescribed format is essential. The papers must represent the main theme of the National Seminar.

ADVISORY COMMITTEE

Engr. Md. Nurul Huda, F-1879, President, IEB	Chairman
Prof. Dr. Engr. M. Shamim Z Bosunia, PEng., F-1317, Chairman, BPERB	Member
Prof. Dr. Engr. Md. Habibur Rahman, F-3271, VC, DUET	Member
Prof. Dr. Engr. Abdul Jabbar Khan, F-7571, Pro-VC, BUET	Member
Prof. Dr. Engr. Mohammad Mahfuzul Islam, PEng., F-9339, VC, BDU	Member
Engr. Md. Nuruzzaman, F-2255, Vice-President (HRD), IEB	Member
Engr. Khandker Manjur Morshed, F-4000, Vice-President (A&F), IEB	Member
Engr. Mohammad Hossain, F-5324, Vice-President (A&I), IEB	Member
Engr. S.M Monjurul Haque Monju, F-7755, Vice-President (S&W), IEB	Member
Engr. Md. Shahadat Hossain (Shiblu), PEng., F-5333, HGS, IEB	Member Secretary
Engr. Md. Abul Kalam Hazari, F-10000, HGS (HRD), IEB	Joint Member-Secretary

SEMINAR COMMITTEE / EDITORIAL BOARD

Engr. Md. Nuruzzaman, F-2255, Vice-President (HRD), IEB	Chairman
Prof. Dr. Engr. Munaz Ahmed Noor, F-6959, Chairman, CED, IEB	Member
Engr. Md. Abdur Razzaque, F-6472, Chairman, EED, IEB	Member
Engr. Mohammad Nasir Uddin, F-5640, Chairman, MED, IEB	Member
Engr. Quazi Md. Ziaul Haque, F-9448, Chairman, CHED, IEB	Member
Engr. Md. Moazzem Hossain Bhuiyan, PEng., F-5759, Chairman, AED, IEB	Member
Engr. Md. Masudur Rahman, F-9096, Chairman, TED, IEB	Member
Engr. Md. Tomig Uddin Ahmed, F-11192, Chairman, ComED, IEB	Member
Dr. Engr. Abdullah Al Mamun, PEng., F-8377, Central Council Member, IEB	Member
Prof. Dr. Engr. Md. Mizanur Rahman, F/11725, Central Council Member, IEB	Member
Engr. Md. Shahadat Hossain (Shiblu), PEng., F-5333, HGS, IEB	Member Secretary
Engr. Md. Abul Kalam Hazari, F-10000, HGS (HRD), IEB	Joint Member-Secretary
Prof. Dr. Engr. A. F. M. Saiful Amin, F/7212, Acting Chairman, BAETE	Member

SUBMISSION OF MANUSCRIPT

Dr. Engr. A.F.M. Saiful Amin
Professor, Department of Civil Engineering, BUET
Email: iebconventionpaper@gmail.com
Phone: +88-02-223389485, Fax: +88-02- 223382447

CORRESPONDENCE AND INFORMATION

Engr. Md. Shahadat Hossain (Shiblu), PEng.
Honorary General Secretary

The Institution of Engineers, Bangladesh
Headquarters, Ramna, Dhaka 1000.
Telephone: +880-2-223389485, 223387860, Fax: +880-2-223382447
Email: iebconventionpaper@gmail.com