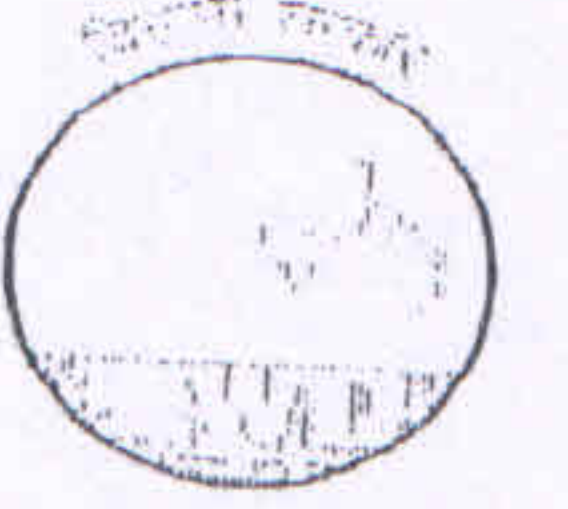




दिल्ली सरकार  
कार्यालय प्रमुख अभियंता, लोनिवि,  
12वां तल, बहु-मंजिला भवन, इंद्रप्रस्थ संपदा, नई दिल्ली: 110002  
☎ 23490260, 23724560, 23311293 फैक्स 23319021  
Toll Free Complaint No. 1800 11 0093  
वेबसाइट: <http://pwd.delhigovt.nic.in>  
ई-मेल: [pwdhqdelhi@gmail.com](mailto:pwdhqdelhi@gmail.com)/[dppwdhqdelhi@gmail.com](mailto:dppwdhqdelhi@gmail.com)



संख्या: 10(1)/प्रमुख अभि./निदेशक/लोनिवि/2018/7217

दिनांक 29.12.2018

सेवा में

प्रधान मुख्य अभियंता(अनु.),  
लोनिवि, एमएसओ भवन,  
नई दिल्ली ।

प्रधान मुख्य अभियंता(परि.),  
लोनिवि, एमएसओ भवन,  
नई दिल्ली ।

विषय: *Work Shop on Inspection Investigation and Repair/Rehabilitation of Bridges and Flyovers to be held at Chennai on 8<sup>th</sup> and 9<sup>th</sup> December 2018 Request for nominate Delegates.*

संदर्भ:—

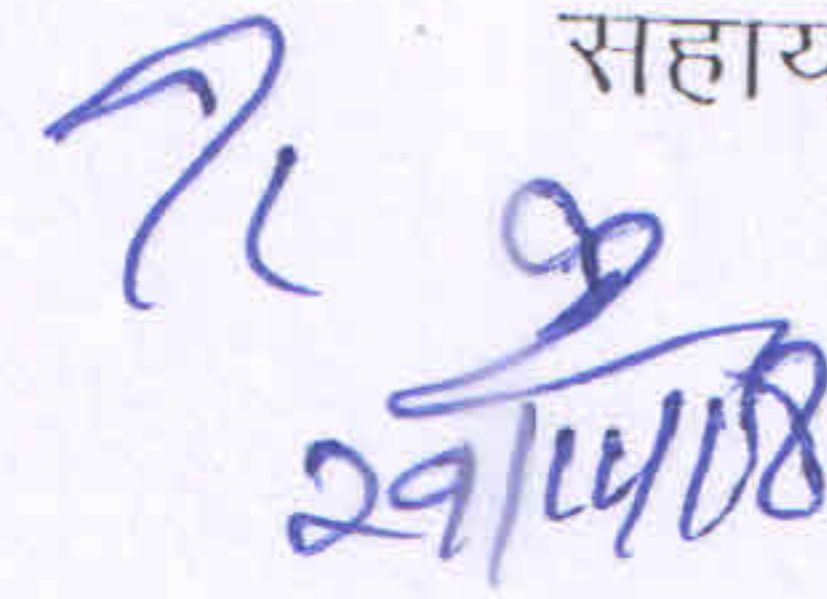
उपरोक्त विषय पर प्राप्त पत्र की प्रतिलिपि संलग्न की जा रही हैं । आपसे अनुरोध है कि उपरोक्त प्रशिक्षण हेतु इच्छुक अधिकारियों के नामांकन इस कार्यालय को दिनांक 05-12-18 तक भिजवाए ।

संलग्न: उपरोक्तानुसार ।

प्रतिलिपि:—लोनिवि वेबसाइट ।

  
(सुभाषिणी)

सहायक प्रशासनिक अधिकारी

  
29/12/18



Indian National Group of  
The International Association for  
Bridge & Structural Engineering

IDA Building, Jamnagar House,  
Shahjahan Road,  
New Delhi-110 011, India

No.ING/IABSE-7(7)/2018

To

The Engineer-in-Chief (Projects)  
Govt of Delhi  
Public Works Department  
IP Estate, MSO Building, 12<sup>th</sup> Floor  
New Delhi-110 002

आवती सं 13495 Dated, the 9<sup>th</sup> November 2018

दिनांक 16/11/2018

प्रमुख अभियंता

निदेशक (कार्य एवं स्था.)

निदेशक (सहा.)

सम सहायक अधिकारी

प्रमुख (कार्य/सहा./सहा. जन सु. अर्थ.)

13/11

U.A.

19/11/18

**Sub: Workshop on "Inspection, Investigation and Repair/Rehabilitation of Bridges and Flyovers" to be held at Chennai on 8<sup>th</sup> and 9<sup>th</sup> December 2018**  
**Request for nominate Delegates**

Sir,

The Indian National Group of the International Association for Bridge and Structural Engineering (ING-IABSE) is organizing a two day **Workshop on "Inspection, Investigation and Repair/Rehabilitation of Bridges and Flyovers" on 8<sup>th</sup> and 9<sup>th</sup> December 2018 at Chennai.** A copy of the Invitation Brochure containing the details of the Workshop and Registration Form is enclosed.

The Indian National Group of the IABSE extends invitation to you to attend and nominate 20 to 25 officers from your State for the above Workshop.

You are also requested to share the contents of this brochure with the contractors, consultants and members of the profession working with you and request them to attend the above event. The details of the Registration Fee are as under:

Sl Nr	Registration Fees	Fee Rs
1	Members, ING-IABSE	5000/-
2	Non-Members, ING-IABSE	7000/-
3	Young Engineers/ Students (under 35 years)	2500/-

Note: 18% GST included in the Fee.

I am sure that the subject matter of the Workshop would be of immense benefit to the professionals in the field of bridge and structural engineering and it will provide an opportunity to the participants for useful interaction with the Experts.

As the time left is very short, we will appreciate if the Registration Form is sent to this office duly filled in along with necessary registration fee through a cheque drawn/demand draft in favour of the "Secretary, Indian National Group of the IABSE, New Delhi" by return post.

Yours faithfully,

(I.K. Pandey)

Secretary, ING/IABSE &  
Additional Director General (RD)  
Ministry of Road Transport & Highways

Encl: As above

C:\Users\AJAY KUMAR KATOCH\Desktop\Chennai Workshop 2018\Delegate Nomination Chennai Workshop 2018.doc

## About the Indian National Group of the IABSE

Indian National Group (ING) of the International Association for Bridge and Structural Engineering (IABSE) was set up in May 1957, under the patronage of the Government of India, Ministry of Road Transport and Highways with active participation of engineers and professionals from the public and private sector as well as research and academic institutions. It works as an arm of the Parent Body (IABSE), Zurich, Switzerland to promote international co-operation and exchange of technical and scientific knowledge in bridge and structural engineering.

To achieve these aims and objectives, the Group organizes periodical discussions in Seminars, Symposia and Workshops on topical subjects and publishes a quarterly technical Journal "The Bridge and Structural Engineer".

For more information please contact:

### ING-IABSE Secretariat

Indian National Group of the IABSE  
IDA Building, Ground Floor  
Jamnagar House, Shahjahan Road  
New Delhi-110 011

I.K. Pandey Secretary	Mobile E-mail:	090 13 44 29 63 ikp5@hotmail.com
Ashish Asati Director	Mobile E-mail:	095 40 53 81 08 ashishasati1@yahoo.com
K.B. Sharma Under Secretary	Mobile Tel E-mail:	098 71 48 10 89 011-23388132, 23386724 ingiabse@hotmail.com ingiabse@bol.net.in

### For more information please contact the following at Chennai:

Mr Alok Pandey, Chief Engineer &  
Regional Officer, MoRT&H, Chennai  
Mob:088800309948

Mr Pawan Kumar,  
Regional Officer, NHAI, Chennai  
Mob:09999918147

Mr N. Balamurugan, Chief Engineer (NH),  
Govt. of Tamil Nadu, Chennai  
Mob:09442556188

## PROGRAMME

<b>Saturday, December 8, 2018</b>	Registration 09.00 – 10.00 Inauguration 09.30 – 10.00 Key Note Address – <b>Mr. Ninan Koshi</b> Bridge Repair & Rehabilitation – An Overview – <b>Mr. A.K. Banerjee</b> 10.00 – 10.15 10.15 – 10.40 10.40 – 13.15 10.40 – 11.00 11.00 – 11.30 11.30 – 12.00 12.00 – 12.30 12.30 – 13.00 13.00 – 14.00 14.00 – 15.30 14.00 – 14.30 14.30 – 15.00 15.00 – 15.30 15.30 – 16.00 16.00 – 17.30 16.00 – 16.30 16.30 – 17.00 17.00 – 17.30 17.30 – 17.45	<b>Saturday, December 8, 2018</b> Registration Inauguration Key Note Address – <b>Mr. Ninan Koshi</b> Bridge Repair & Rehabilitation – An Overview – <b>Mr. A.K. Banerjee</b> <b>Session 1 – Inspection, Investigation and Bridge Management System</b> Overview of BMS from MoRT&H perspective – <b>ADG/CE S&amp;R Br</b> <i>Tea Break</i> Condition Survey and Bridge Management System – <b>Dr. Lakshmy Parameswaran</b> Detailed Investigation and Testing – <b>Mr. R.K. Jaigopal</b> Development of BMS for National Highways – A Case Study – <b>Mr. R.S. Sharma</b> <i>Lunch</i> <b>Session 2 – Repair Materials and Techniques</b> Some New Technologies, Concepts and Case Studies in Bridge Repairs – <b>Dr. Harshvardhan Subbarao</b> Concrete Bridge Repair – State of the Art and Materials & Methods – <b>Mr. Samir Surlaker</b> FRP A Wonder Material for Repairs – <b>Prof. M.C. Tandon</b> <i>Tea Break</i> <b>Session 3 – Repair / Rehabilitation and Case Studies</b> Rehabilitation of Bridges & Other Structures – <b>Mr. P.Y. Manjure</b> Repair and Retrofitting of Bow String Arch Bridges in Goa – <b>Mr. Alok Bhowmick</b> Seismic Retrofitting of Bridges & Structures – <b>Prof C.V.R. Murty</b> <b>Presentation by Sponsor</b>
<b>Sunday, December 9, 2018</b>	10.00 – 15.30 10.00 – 10.30 10.30 – 11.00 11.00 – 11.30 11.30 – 12.00 12.00 – 12.30 12.30 – 13.00 13.00 – 14.00 14.00 – 14.30 14.30 – 15.00 15.00 – 15.30	<b>Sunday, December 9, 2018</b> <b>Session 3 - Repair / Rehabilitation and Case Studies (Contd.)</b> Rehabilitation of Steel Bridges – A Case Study – <b>Mr. Amitabha Ghoshal</b> Hybrid Technology for Rehabilitation of Deep Bridge Foundations – <b>Mr. V.N. Heggade</b> Rehabilitation of Durgabati Bridge on N.H 2 in Varanasi – <b>Mr. Umesh Rajeshirke</b> <i>Tea Break</i> Repairs to major cracks in Main Span of Versova Bridge across Vasai Creek – <b>Mr. Aditya Sharma</b> Specialized Replacement Techniques of Bearings and Expansion Joints with Minimal Disruption of Traffic – Case Studies – <b>Mr. Prateek Sen</b> <i>Lunch</i> Rehabilitation of Suspended Span of Versova Bridge across Vasai Creek – <b>Mr. Dhnanjay Bhide</b> Repair and Rehabilitation of Steel Bridges – <b>Mr. Ashok Basa</b> <b>Concluding Session</b>

Indian National Group of the  
International Association for  
Bridge and Structural Engineering



# Invitation

## Workshop

ON

## “Inspection, Investigation and Repair/Rehabilitation of Bridges & Flyovers”



### Venue:

**IC & SR, IIT Madras**  
Near Gajendra Circle, Opposite to Admin Building,  
Adyar, Chennai-600036

**Chennai (Tamil Nadu)      December 8-9, 2018**

*Organised by*

**Indian National Group of the IABSE**

*Supported by*

**Ministry of Road Transport and Highways**  
and

**National Highways Authority of India**

## About the Workshop

The Indian National Group of the International Association for Bridge and Structural Engineering (ING-IABSE) in association with Ministry of Road Transport & Highways and National Highways Authority of India, is organizing a two day Workshop on "Inspection, Investigation and Repair/ Rehabilitation of Bridges & Flyovers" on 8<sup>th</sup> and 9<sup>th</sup> December 2018 at Chennai.

India has a large number of bridges and flyovers on the major road corridors, constructed in the last few decades. Many of these structures have been constructed long back and have suffered damage/distress due to environmental factors and lack of timely maintenance. These assets need to be maintained with necessary repairs and rehabilitation / strengthening to achieve their full service life.

This Workshop intends to provide insights into the probable causes of distress and available methods and techniques of their repair and rehabilitation to enhance their serviceability during the design life. It also covers the aspects of detailed inspection, investigation and testing.

During this two day Workshop, several eminent engineers in the field of bridge & structural engineering will make presentations on the different aspects of bridge repair and rehabilitation and present some interesting case studies for the benefit of the participants.

### Scientific Committee

Ninan Koshi  
Chairman, SC  
A.K. Banerjee  
Co-Chairman, SC  
B.N. Singh  
Chairman, ING-IABSE  
I.K. Pandey  
Secretary, ING-IABSE  
Ashish Asati  
Director, ING-IABSE

### Members

Mahesh Tandon  
Vinay Gupta  
Aditya Sharma  
Alok Bhowmick  
Lakshmy Parameswaran

Regarding technical information related to this Workshop, you may contact Mr Ninan Koshi, Chairman, Scientific Committee. Email: n.koshi@hotmail.com, Mobile: 9891089858.

## Speakers

### Mr. B.N. Singh

Chairman, ING-IABSE & Director General (Road Development) & Special Secretary, MoRT&H  
Mr. B.N. Singh obtained B. Tech degree from B.I.T. Mesra and joined Ministry of Road Transport & Highways as AEE in April, 1983 and rose to the rank of DG (RD) & Special Secretary. He had worked as Member (Projects) in NHAI from December 2009 to December 2014 and as CGM and GM during 2000-2009.

### Mr. I.K. Pandey

Secretary, ING-IABSE & Addl Director General (Road Development), MoRT&H  
Mr. Pandey joined Ministry of Road Transport & Highways in September, 1984 as AEE and rose to the Addl Director General (Road Development). He also worked in NHAI as GM (Tech) during 2000-2004 and CGM (Tech) from 2012 to April 2016. During his carrier spanning about 34 years, he had dealt with a number of four laning and six laning projects including major bridges. He is also working as Convenor/ Member of various IRC Technical Committee including Bridge Standards and Specification Committee.

### Mr. Ninan Koshi

Chairman, Scientific Committee & Former DG (RD) & Addl Secretary, MoRT&H  
After joining the Central Engineering Service in 1959, Mr. Koshi worked for long years in the Ministry of Road Transport & Highways before retiring as Director General (Road Development) & Addl. Secy. His specialisation is in the field of bridges. As convenor of the concerned Technical Committee of the IRC for many years, he was instrumental in the drafting and finalisation of the Limit State Code for Concrete Bridges IRC:112, which is now in use in the country. He was also Chairman of the ING-IABSE for a number of years and was conferred the Honorary Life Membership of the Parent Body in Zurich in 1992.

### Mr. A.K. Banerjee

Co-Chairman, Scientific Committee & Former Member (Technical), NHAI  
Mr. Banerjee graduated in Civil Engineering from University of Calcutta and obtained M.Tech degree from I.I.T. Delhi. He had an illustrious career as Highway and Bridge Engineer in the Ministry of Road Transport & Highways, where he rose to the rank of Chief Engineer and later became Member (Technical) in the National Highways Authority of India. He is the Convenor / Member of various IRC Bridges Technical Committees, including the Bridges Standards & Specification Committee.

### Dr. Lakshmy Parameswaran

Chief Scientist, Bridges & Structures Division, CSIR-Central Road Research Institute  
Dr. Lakshmy Parameswaran, is a PhD (Civil Engineering) from IIT Roorkee. She has more than 30 years experience and is currently working in CSIR-CRRI as a Chief Scientist. Her main areas of research are bridge management, health monitoring of bridges and bridge aerodynamics.

### Mr. R.K. Jaigopal

Managing Director, Struct Geotech Research Laboratories Pvt Ltd  
Mr. R.K. Jaigopal, born 1955, received his Post Graduate in Structural Engineering from Bangalore University. He has more than 38 years of experience in the field of design, construction, structural investigation and rehabilitation which includes buildings and bridges.

### Mr. R.S. Sharma

Chief Engineer (Retd), MoRT&H  
Mr. R.S. Sharma with his MS from Delhi University. Has over 40 years experience in planning, design, supervision of highway and bridge projects. Widely travelled. Presently Team Leader for inspection of bridges in North Eastern states of over 10000 km.

### Dr Harshavardhan Subbarao

Vice President, IABSE & Chairman & Managing Director, Construma Consultancy Pvt Ltd  
Dr. Harshavardhan Subbarao, holds a Ph.D from Imperial College, London. He has been involved with a number of Landmark projects such as Signature Cable Stayed Bridge, Delhi, 4.6 km Rail-cum-Road Bridge, Patna, Bridge No. 20 on JURL, metros, viaducts, elevated roads, arch bridges, underpasses etc. A member of the Technical Committee of IABSE, several committees of IRC and various International and National bodies, he has a number of papers and bridge projects to his credit.

### Mr. Samir Surlaker

Director, Assess Buildthem Pvt Ltd

Mr. Samir Surlaker is a civil and structural engineer having four decades of national and international experience and expertise in the field of Concrete Technology, construction Chemicals and Repairs and Rehabilitation of structures. He is Vice President of Indian Concrete Institute (ICI) and President of Construction Chemicals Manufacturers Association (CCMA). He is Fellow of several Professional Bodies and has won several Awards. He is co Author of Handbook of Advanced Concrete Technology. He is Member of several BIS Committees and ICI Handbook Committees.

### Prof. Mahesh Tandon

Managing Director, Tandon Consultants Pvt Ltd

Prof. Mahesh Tandon received his Bachelor degree in Civil Engineering from IIT Roorkee and Masters from University of Hawaii, USA. He was appointed Distinguished Visiting Professor at the Indian Institute of Technologies at Kanpur and Roorkee by the Indian National Academy of Engineering (INAE) and the All India Council for Technical Education (AICTE).

### Mr P. Y. Manjure

Director, Freyssinet Prestressed Concrete Co Ltd

Mr Manjure graduated in Civil Engineering in 1963 from Pune University. Specialized in the field of Rehabilitation and prestressing. Has done rehabilitation of more than 350 structures in the last 5 decades.

### Mr. Alok Bhowmick

Managing Director, B&S Engineering Consultants Pvt Ltd

Mr. Bhowmick has a career spanning more than 33 years including the Design of Viaducts, Bridges, Elevated Metro Stations, Integral Flyovers, Underpasses, Aqueducts, Industrial Structures etc. He is an active member of several Technical Committees of IRC.

### Prof. C.V.R. Murty

Professor, Structural Engineering, IIT Madras

Prof. Murty received his Bachelor and Master degree in Civil Engineering from IIT Madras in 1984 and 1986 and PhD from California Institute of Technology, Caltech, USA in 1992.

### Mr. Amitabha Ghoshal

Chief Advisor to Board of Directors, STUP Consultants Pvt Ltd  
Mr. Amitabha Ghoshal, graduated in Civil Engineering from Calcutta University in 1957. He had been Director & Vice President of STUP Consultants Pvt. Ltd., Kolkata. He has interesting experience of design and construction of diverse engineering structures.

### Mr. V.N. Hegade

Technical Director, Gammon Engineers & Contractors Pvt Ltd  
Mr. Hegade has more than 22 years of experience of furthering the cause of standardization in the country by being an active member of various Technical Committees of IRC and BIS, relating to Bridges, Marine Structures and Special Structures like Cooling Towers and Chimneys. He is also a member of FIB commissions relating to Pre-cast Segmental Construction and Sustainability.

### Mr Umesh Rajeshirke

Managing Director, Spectrum Techno Consultants Pvt Ltd  
Mr. Rajeshirke graduated from VJTI, Mumbai in 1987 and did his masters from IIT, Madras in 1991. He has Over 31 years' experience in Planning & Design of Cable Stayed and other long span Bridges, Flyovers, Aqueducts, Steel Structures, Marine facilities, Industrial Structures, Prestressed / Reinforced Concrete Structures, Shell Structures. He is a member of various Committees of IRC & BIS and published a number of papers.

### Mr. Aditya Sharma

Director - Highway & Structure, Ramboll India Pvt Ltd  
Mr. Aditya Sharma has completed his Graduation from Punjab University Chandigarh in 1989. He is having wide range of experience in planning, detailed engineering design, proof checking, project management and procurement for various bridges / highway & infrastructure projects.

### Mr. Pratik Sen

Sr Project Manager, Mageba Bridge Products Pvt Ltd  
Mr. Pratik Sen graduated in Civil Engineering from NIT Calicut in the year 2008. Over the 10 years of work experience, he was initially associated with the Cement industry and is presently working as Sr. Project Manager with mageba India.

### Mr. Dhananjay Bhide

Consultant, IRB Infrastructure Developers Ltd  
Mr. Dhananjay Bhide has 41 years of experience in the field of bridge design, covering almost all kinds of bridges. He has been associated with a large number of important major Bridges, including cable stayed bridges, arch bridges and continuous integral bridges, flyovers and metro projects. He was also involved in finalizing the design basis for 460m span steel arch bridge across river Chenab, under construction. He is an active member of IRC B4 committee for concrete bridges

### Mr. Ashok Basa

Managing Director, CEM Engineer & Consultants Pvt Ltd  
Mr Ashok Basa is having wide experience in Design and Construction of Bridges for more than three and half decades. He is a member of several technical committees including BSS Committee.

## General Information

### Language

The Workshop will be conducted in English and all published material associated with the Workshop will be in English.

### Registration

Application for registration should be sent in the enclosed Form. The completed Registration Form along with requisite registration fees should preferably reach by 3<sup>rd</sup> December 2018.

Registration Fees	Fee Rs
Members, ING-IABSE	5000/-
Non-Members, ING-IABSE	7000/-
Young Engineers/ Students (under 35 years)	2500/-

Note: 18% GST included in the Fee.

### Payment

Payment of registration fee should be made in INR (Indian Rupees). Cheque payable at New Delhi drawn in favour of "Secretary, Indian National Group of the IABSE, New Delhi" should be attached with the Registration Form. Registration Form received without Registration Fee will be rejected. For spot registration, cheque or Cash will be accepted.

### Accommodation

Chennai has a large number of Five Star and other category hotels and Guest Houses to suit varied requirements. Delegates are required to book in advance their respective State Guest Houses or Hotels. No official arrangements for accommodation and transport are being made by the Indian National Group of the IABSE.

### Sponsorship Opportunities

Privileges	Diamond (3 Lacs)	Gold (2 Lacs)	Silver (1 Lacs)
Complimentary Delegates	7	5	3
Advertisement in B&SE Journal	One	One	One
Slot for Presentation	10 min	10 min	--
Exhibition Stall - Size 3m x 2m	✓	✓	✓
Display of name during Workshop	✓	✓	✓
Distribution of Catalogues	✓	✓	✓

Note: 18 % GST will be charged extra

# Registration Form

## Workshop

on

**"Inspection, Investigation and Repair/  
Rehabilitation of Bridges and Flyovers  
8 - 9 December, 2018, CHENNAI**

(Please type or write in block letters and return to)

**Shri I.K. Pandey**  
Secretary

Indian National Group of the IABSE  
IDA Building (G/F)  
Jannagar House, Shahjahan Road  
New Delhi-110 011

Name \_\_\_\_\_

Designation \_\_\_\_\_

Organisation \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Postal Code \_\_\_\_\_

STD Code \_\_\_\_\_ Tel \_\_\_\_\_ Mobile \_\_\_\_\_

E-mail \_\_\_\_\_

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### Payment

Please find enclosed a Cheque No \_\_\_\_\_ dated \_\_\_\_\_  
for Rs \_\_\_\_\_ drawn in favour of "Secretary,  
Indian National Group of the IABSE, New Delhi".

Date \_\_\_\_\_

Signature \_\_\_\_\_

NOTE:

1. Please keep a photocopy for your record.
2. Delegates are requested to make their own arrangements for travel and accommodation.