



Indian Concrete Institute



IIT
Bombay

2 Day

INTERACTIVE ICI WORKSHOP

on **Revised IS:456 Draft**

Organized by **ICI Mumbai** in association with **IIT Bombay**



IS 456 (2000)



13th -14th February 2026



P C SAXENA Seminar Hall, IIT Bombay

Supported by VJTI Mumbai and ACI, India Chapter

About the Workshop

There is a sea change in the latest version of IS:456 (draft) compared to the previous code. In this 5th revision, prestressed concrete design has also been included and title of the code is changed to "Structural Concrete: Code of Practice", consequently IS:1343-2012 will be withdrawn after publication of this 5th revision of IS:456. Six design criteria have been included in the revised code, namely strength, serviceability, durability, robustness, integrity and restorability. Concepts of durability and service life have also been added. The determination of concrete properties, including time-dependent properties, is now based on the French document CEB-fib Model Code 2020.. Items like design for fire, blast & impact have also been included. The faculty have been carefully selected from among the code-makers to ensure that the deliberations are more meaningful.

Who should attend

Consultants, Architects, Contractors, Industry Professionals, and Academicians

About Indian Concrete Institute

The Indian Concrete Institute (ICI) stands as a colossal force in the Indian professional landscape, a leading body empowering individuals and organizations deeply invested in the world of concrete. As a non-profit organization, ICI is relentlessly focused on spreading the concrete knowledge, championing advancements in technology and construction, and fueling crucial research endeavours. From humble beginnings in 1982 with just 500 members across 5 regional centres, ICI has exploded onto the scene. Today, it's a thriving community of over 15,000 passionate members representing every facet of the concrete industry with 50 regional centres strategically located nationwide. These regional centres are the sources of activity, constantly hosting dynamic events like seminars, workshops, conferences, exhibitions, and "Deminars" – a unique blend of demonstrations and seminars – throughout the year.

About IIT Bombay

Indian Institute of Technology Bombay (IIT Bombay) is a premier public research university and technical institute located in Powai, Mumbai, Maharashtra, India. Established in 1958, it was the second Indian Institute of Technology to be founded and the first to receive foreign assistance, with support from UNESCO and funding from the Soviet Union.

IIT Bombay has 17 academic departments, 35 academic centres, and three schools, including the Shailesh J. Mehta School of Management (SJMSoM), IDC School of Design, and Desai Sethi School of Entrepreneurship (DSSE). It offers undergraduate (BTech, BSc, B.Des), postgraduate (MTech, MSc, MBA, M.Des), doctoral (PhD), and dual-degree programs. IIT Bombay has a strong research culture, with over 400 sponsored projects annually and significant contributions in fields like AI, nanotechnology, energy, and climate studies.

Schedule

13 th February, 2026		
Time	Session / Activity	Speaker
9:30 - 10:30 AM	Inauguration Overview of new IS:456 draft - Er. Jose Kurian	
10:30 - 11:00 AM	Tea / Coffee	
11:00 AM - 11:45 AM	Concrete and its Constituents	Prof. Manu Santhanam
11:45 AM - 12:30 PM	Mix Design and Special Concretes	Er. Nilotpol Kar
12:30PM - 1 :15 PM	Reinforcing Steel & Material Properties	Prof. Abhay Bambole
1:15PM - 2:00 PM	Lunch	
2:00PM - 2:45 PM	Prestressing Concepts	Er. Vinay Gupta
2:45 - 3:45 PM	Quality Control, Testing and Durability	Dr. P. N. Ojha
3:45 - 4:15 PM	Tea / Coffee	
4:15 - 5:00 PM	Construction Aspects	Er. Vinay Gupta
5:00 - 6:00 PM	Question & Answer Session	

14 th February, 2026		
Time	Session / Activity	Speaker
9:00 - 10:00 AM	Various Limit States and Loads & Stresses	Prof. Rupen Goswami
10:00 - 10:30 AM	Tea / Coffee	
10:30 AM - 11:30 PM	Modelling & Analysis	Er. Aman Deep Garg
11:30 - 12:30 PM	Design: Flexure, Shear & Torsion and Axial Forces	Prof. R. K. Ingle
12:30 - 1:30 PM	Detailing of RCC Structures	Er. Aman Deep Garg
1:30 - 2:15 PM	Lunch	
2:15 - 3:30 PM	Design & Detailing of Prestressed Concrete	Er. Umesh Rajeshirke
3:30 - 4:15 PM	Design of Structures Subjected to Blast and Impact Loading	Prof. Manish Kumar
4:15 - 6:00 PM	Panel Discussion (Moderator: Er. Vinay Gupta)	Prof. R S Jangid Er. Aman Deep Garg Prof. Manish Kumar Prof. Abhay Bambole Dr. Vishal Thombare Er. Achyut Watve
6:00 PM	High Tea	

Program Highlights

1. **Direct access to the IS 456 drafting team** for real-time clarification of practitioner queries.
2. **Bridging academia, industry, and BIS for unified interpretation of the draft provisions.**
3. Discussion on feedback **formally documented for consideration in the final draft of IS 456**

Organising Committee

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Speakers Profile



Er. Jose Kurian

Principal Project Advisor to Kerala Infrastructure Investment Board (KIIFB), Government of Kerala
Chairman, Civil Engineering Division Council, Bureau of Indian Standards.

He is a former Central Engineering Services officer belonging, retired as Chief Engineer, from the Central Public Works Department, Government of India and later with the Delhi Tourism and Transportation Development Corporation, Government of Delhi. In addition, he is also a project advisor to several other institutions.

Till recently, he has been working as Team Leader, CDM Smith India, consultant to Govt. of Kerala for creating infrastructure for their Additional Skill Development Programme (ASAP). He is the Chairman of the BIS Committee CED 2 on Cement and Concrete and also a member of the BIS committees for IS 456, the RCC Code. He is the Convener for the National Building Code Panel for Concrete. He is an active member of the BIS Panel for Construction Project Management and is the Convener for the Documents for Time Management and Procurement Management. He heads the Panel on Digitalization of the construction Sector



Prof. Manu Santhanam

Professor, Department of Civil Engineering, IIT Madras

He is a leading Indian materials and concrete technologist and a Professor in the Department of Civil Engineering at IIT Madras, where he also serves as the Dean of Industrial Consultancy and Sponsored Research (ICSR). With degrees from IIT Madras and Purdue University, he has built a distinguished career focused on cement chemistry, concrete durability, microstructural characterisation, sustainable binders, and emerging technologies such as 3D-printed concrete. His work bridges fundamental materials science with practical engineering, contributing significantly to infrastructure durability, innovative construction materials, and heritage-structure conservation. Widely published and active in national and international professional bodies, he has received numerous awards, including recognition from the Indian Concrete Institute and INAE, underscoring his strong impact on concrete technology research and education in India.



Er. Nilotpol Kar

Managing Director, India Sika India Pvt. Ltd.

A civil engineering graduate with nearly four decades of experience in the fields of cement, concrete, and construction chemicals, Neil has worked across Asia, the Pacific, and the Middle East and been involved in prime projects. He has been associated with the construction chemicals area in various types of projects, such as hydro-electric, tunnelling & metro, nuclear, thermal, dam, infrastructure, roads & bridges, residential, commercial and industrial - spanning across Asia Pacific and Middle East.



Prof. R. K. Ingle

Professor, VNIT Nagpur

His area of expertise includes analysis and Design of Bridges, Water Tanks, Buildings, and Special Structures, Earthquake-Resistant Design. Prof. Ingle has extensive experience in teaching, research, and professional practice in structural engineering. He has successfully guided several M.Tech and PhD students in the areas of structural analysis, design, and earthquake engineering. He has authored several research publications in reputed national and international journals and conferences.



Er. Vinay Gupta

Managing Director, M/s. Tandon Consultants Pvt. Ltd

He is a Civil Engineer from BITS, Pilani, Managing Director, M/S Tandon Consultants Pvt Ltd. Er Gupta over his 4 decades of rich experience specializes in bridges, flyovers, underground & elevated metro structures, precast & long span tall buildings.)

He is an active member of various Code Committees of BIS and IRC. He is recipient of several awards from IEI, IBC and UKIERI and the coveted S B Joshi Memorial Award 2019. He has been lecturing as Guest Faculty in IAHE, CRRI, CIDC, ISDA, DPC, etc. and presented about 100 technical papers. Er Vinay Gupta is all India Director General of IIBE (Indian Institution of Bridge Engineers) and Past President of ICI (Indian Concrete Institute)



Dr. P. N. Ojha

Joint Director & Head Centre for Construction Development & Research

He is a senior expert in cement, concrete, and construction materials, with extensive experience in research & development, performance-based specifications, durability design, alternate and recycled aggregates, industrial by-products, and standardization. He has played a key role in revision, formulation, and harmonization of Indian Standards with international codes, contributing significantly in the revision of IS 456.



Prof. Rupen Goswami

Professor, Department of Civil Engineering, IIT Madras

He is a Professor of Civil Engineering at IIT Madras, specializing in structural and earthquake engineering. With a B.E. from Jadavpur University and M.Tech and Ph.D. degrees from IIT Kanpur, he has built a strong academic and research career focused on improving the seismic safety of buildings and infrastructure.

His work covers nonlinear structural response, performance-based seismic design, RC and steel structural behaviour, and earthquake-resistant design principles. He has authored books such as Some Concepts in Earthquake Behaviour of Buildings and has guided numerous postgraduate and doctoral students in the field. Through his teaching, research, and publications, Dr. Goswami has contributed significantly to advancements in earthquake engineering and to improving the resilience of civil structures in seismic regions.



Er. Aman Deep Garg

Managing Director, Creative Design Consultants and Engineers Pvt. Ltd. (CCEPL)

He is an engineer specializing in structural safety, resilience, and consultancy, currently serving as the Managing Director of Creative Design Consultants and Engineers Pvt. Ltd. (CCEPL). His professional focus often involves conducting crucial structural audits to assess and ensure the safety of existing building infrastructure.

Garg is a recognized expert within the field, contributing to the development of national standards as an expert member of the National Building Code (NBC) panel under the Bureau of Indian Standards (BIS).



Prof. Abhay Bambole

Professor, Dept of Structural Engg., VJTI Mumbai

Prof. Bambole currently works as Dean of Infrastructure and Maintenance in the VJTI, Mumbai. He holds expertise in bridge Engineering, with significant contributions in the areas of earthquake engineering, retrofitting of structures, and advanced construction materials. He has mentored numerous research scholars, authored impactful publications, and is widely recognized for his leadership in academia.



Er. Umesh Rajeshirke

Managing Director of Spectrum Techno Consultants Pvt Ltd

More than 30 years of experience in the Planning & Design of Bridges, Flyovers, Large Span Steel Structures, Prestressed and Reinforced Concrete Structures etc. He graduated from VJTI, Mumbai in 1987 and did his masters from IIT, Madras in 1991. He was involved in design of many prestigious structures like Cable stayed bridges, number of Precast segmental bridges, Metro rail viaducts, long span steel truss & arch bridges, NDCTs and Nuclear Containment Structures.

He is a member of various BIS and IRC committees and published number of papers in national & international conferences and journals.



Prof. Manish Kumar

Associate Professor, IIT Bombay

He is an Associate Professor in the Department of Civil Engineering at IIT Bombay, with a PhD and M.S. from SUNY Buffalo and a B.Tech from IIT Kanpur. A licensed Professional Engineer (PE), California, USA. His research focuses on developing tools, guidelines, and design solutions for structures subjected to blast, ballistic, and impact loads. He serves as Convener of the BIS Working Group on Blast-Resistant Structures (IS 4991) and has received awards from DRDO and MES for contributions to protective structures for defence applications



Payment details

Registration

Category	Course Fee + Temporary Membership Fee	GST (+18%)	Total Payable
ICI Members participant	Rs.3,000/-	Rs.540/-	Rs.3540/-
ICI Non - Members participant	Rs.5,000/- +Rs.500/-	Rs.990/-	Rs.6490/-
ICI Member Faculty participant	Rs.1,500/-	Rs.270/-	Rs.1,770/-
ICI Member Student participant	Rs.1,000/-	Rs.180/-	Rs.1,180/-
ICI Non - Members Faculty participant	Rs.2,000/- + Rs.250/-	Rs.405/-	Rs.2,655/-
ICI Non - Members Student participant	Rs. 1,500/- + Rs.250/-	Rs.315/-	Rs.2,065/-

Early bird discount of 30% for registration and payment before 5th Feb2026.
Limited Seats are available

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Er. Yadav Kamble
 Executive committee
 member, ICI Mumbai Centre
 📞 +91 90291 65267

Ms. Anju Shetty
 📞 +91 8879977848

📧 admin@icimumbaicentre.org
 ICI Mumbai Centre



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Presentation Slot	10 min	05 min	N
Exhibition Stall (3m x 3m)	Y	N	N
No. of Complimentary participants	10	05	02

For Exhibiting Stalls

Cost: **Rs.50,000/- + GST 18% = Rs.59,000/-**

Size of the stall: **10' x 10' x 8'**

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