



INDIAN CONCRETE INSTITUTE
BENGALURU CENTER, KARNATAKA

Cordially invite you for the webinar on

“Durability of Concrete Structures”

On 17th May 2021, Monday 4.00 pm - 5.30 pm



By: Dr S K Dhawan, Former Chief Engineer, Central Public Works Department; Delhi High Court Arbitrator, Dispute resolution Board Member, Governing Council Member, Indian Association of Structural Engineers ; Visiting Faculty, Civil Engineering Department, IIT, Delhi. Fellow Member, Association of Structural Engineers. Holds Master's degree in Structural Engineering from Indian Institute of Technology, Delhi with distinction. Master's in Management in Urban Development, from Birmingham University, U.K., Master's degree in Public Administration, from Indian Institute of Public Administration with distinction, MPhil in Project Management from

Punjab University, with distinction, PhD in Structures from Civil Engineering Department, Indian Institute of Technology, Delhi. Fellow Member of Institution of Engineers, Fellow Member of institution of Valuers, Member of Indian road congress, Indian building congress, Institution of Arbitrator, Indian institute of bridges, Indian Concrete Institute, Member of British scholar, Member of America Association of Civil Engineers, Participated in various international and national seminars in different parts of the country and presented papers, Many articles related to structures published in national and international journals. Won various awards like life time achievement award from Indian concrete Institute, Life time achievement award from institution of engineers, Delhi Centre, Best Alumni Award from Indian Institution of Engineers, India.

Brief about topic: Durable concrete structures are designed, constructed and maintained to preserve their characters during service life, avoiding premature failure and the need for preventive maintenance and timely restoration works. Efforts shall be made to ensure that concrete remains alkaline with pH value > 13. This makes the steel rebar corrosion resistant. Durable structures shall have service life of over 100 years and shall be made by use of optimal materials, thereby conserving material and energy. Emphasis was mostly on compressive strength of concrete. However many structures world over have shown deterioration during the last 60 years. Exposure conditions also have been found to play a vital role on the durability of concrete. Accordingly IS 456-2000 has been amended. It has been amended further based on experience in other countries on Durability of concrete and concrete structures. One of the main reasons for deterioration of concrete, is materials used in the making of concrete, method of mixing, placing, compaction and curing, environmental conditions, loading pattern, various pollutants like carbon dioxide, chlorides, and chemicals that have affected the environments. Soils and subsoil water in certain locations in India having deleterious chemicals and salts which will effect the durability of concrete structures.

Dr. L R Manjunatha

Hon. Chairman ICI(BENC)

Dr. R L Ramesh

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