

Sub: Webinar on "Advancements in Formwork Technology" organized by ACC Cement

ACC Cement organized a Webinar on "Advancements in Formwork Technology" for Consultants , Architects, Contractors, Academicians etc on 18th April 2020. There is rapid development in urbanization and more vertical growth is taking place in terms of sky scrapers and infrastructures like bridges, aqueduct as well as cooling towers, Silos etc.

The shapes of such structures are not rectangular but architects prefer more fancy shapes to make the structures more elegant. It is difficult for field engineers to convert paper drawings into prototypes. For this along with good quality of concrete, good quality of formwork is equally important.

In this webinar; the concept of formwork and its basic properties and functions are discussed. In old days the formwork was primarily made up of timber but due to problem of deforestation and to avoid the depletion of natural resources the timber formwork is not recommended. It was replaced by steel forwork but it had also lot of limitations mainly due to weight, handling issues , number of reuses etc' it is replaced by Modular Aluminium formwork which is light and gives better finish to the concrete.

In webinar audience was informed through photographs and animations concept of advancements such as MIVAN, DOKA and TUNNEL Form construction used in construction industry. The audience was also introduced to Slipform technology where formwork is not stationary but moving which is commonly used for vertical tall structures such as Chimney, Cooling towers, Pylons, Piers, Silos etc. The session was interactive and answers were given to all queries raised by audience.

Sub: Webinar on "Cracks in Building and their Significance" organized by UltraTech Cement

UltraTech cement has organized a webinar on "**Cracks in Building and their Significance**" on 27th April 2020. Now adays due to increase in population and rapid urbanization the lot of dwelling structures are constructed. Mainly in cities the dwelling structures are not only multistoried but big sky scrapers , townships etc. To meet the community civic requirements lot of facility centres such as malls, shopping complexes, hospitals, transportation facilities are also constructed at rapid rates. Due to the problem of land availability the buildings are now constructed on the lands which are not suitable as proper foundation. To reduce the cost the buildings are not designed by experienced consultant and builder/ developer/ contractor will under quality material. There is also poor workmanship or poor maintenance of the buildings. There are the forces such as earthquake or act of god which results in various types of cracks.

The buildings are subjected to both static and dynamic forces and this results in many cracks seen in various building components. However more than 90% cracks are non dangerous and disturb cosmetic look of the building but remaining 10% are dangerous and may make the structure unstable or may lead to failure of the structure.

In this webinar types of cracks, factors developing cracks in building, impact of expansive soil on stability of building, cracking pattern, concept of corrosion and how it leads to cracking are also explained with lot of pictures from the site.

How the structural abuse and overloading on the structure leads to cracking is also explained with various examples and photographs.

The queries raised by audience was answered at the end of webinar