

Press Release

Virtual Master Class on Pipe Materials in Water & Wastewater Systems

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Dr Kapil K Narula, CEO & Executive Director, CII Water Institute emphasized the importance of Life cost analysis (LCA), standardization and science & manufacturing in selection of piping system. He recapitulated the focus of earlier master class – relevance of newly developed lining & coating systems; advantages & disadvantages of various pipe materials; structural design of metallic pipe; importance of data analytic in arresting leakages; and structural design of DI pipes for hilly terrain. Based on the understanding of pipes, he observed to update the existing standards.

Dr Sabarna Roy, DI Business Head – Sales & Marketing, The Sandur Group mentioned about the competitiveness of Indian piping industry in delivering technological and commercial benefits to stakeholders. He put forth the idea of adhering to ISO 2531 which will not only reduce the cost of schemes but allow flexibility to decision makers in choosing products as per their schemes leading to conservation of resources. According to him, it is high time for the industry to adopt international standards to remain competitive and be par with their counterparts globally. He made a strong plea to adhere to life cycle cost analysis in selection of piping materials. Dr Roy urged CII to take up a project for all types of pipes material to ascertain life of piping material by subjecting the same to simulation test in industry grade laboratory.

Simulation test in industry grade laboratory to test pipes confirming Indian standards would be critical, concluded Dr Roy.

Ms Shilpa Nischal, Senior Counsellor, CII Water Institute moderating the session highlighted the importance of water in achieving SDG and reiterated for harmonization of the Indian Standard with international standards.

Mr Maneesh Kumar, President & Global Marketing Head, Jindal SAW Limited gave an account of the need of C class pipe highlighting the factor of safety (thickness of pipe for internal pressure). The selection of pipes should be guided by the working pressure in the pipeline leading to resultant savings, affirmed Mr Kumar. He also made it clear for carrying out the Type Test / Performance test for ensuring performance of pipes at the site.

In the next part of his presentation, he focussed on the Life cycle cost analysis of various pipe materials used in water supply. According to him, selection of pipes should be based on life cost analysis as the same facilitates decision making for selection of efficient and affordable piping system. In this connection he emphasized the role of approving authorities in mandating the criteria of life cycle cost analysis for consideration of pipe.

Mr Santanu Banerjee, General Manager, Tata Metaliks Limited provided a snapshot on the product manual for obtaining BIS License for Centrifugally cast DI pressure pipes. He said that manual does not specify the manufacturing process but mandates the criteria for the end-product. This standardization ensures that the pipes manufactured by one manufacturer and fittings of another manufacturer are compatible, said Mr Banerjee. He further added that adhering to quality parameter not only ensures quality assurance but also ensures there is no problem at the site for the customer.