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Flexural Behaviour of Beam using Manufactured Sand and Replacement of Cement with Tile Powder

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Abstract : The concrete was conceptualized by Prof.Okamura at Ouchi University, Japan in 1986. This project explores the strength and durability studies of concrete using Manufactured sand and tile powder. The parameters like protection of natural resources, environmental consciousness are the present construction field requirements. Environmental pollution a major problem faced by mankind, mainly in the construction industry the production of Portland cement causes the emission of pollutants that causes serious threat to the environment. The pollution effects on environment due to cement production can be reduced by increasing the usage of waste products in our construction industry. Usage of Manufactured sand and tile powder is such a remedial measure and in the present study, sand is being replaced with Manufactured sand and Tile powder is choosen as powder in binder (cement + powder). The replacement of Manufactured sand with the sand. The binder is 70% of cement and 30% of tile powder. The Mix design was arrived as per the guidelines of IS 10262:2009. The mix design and the tests to be conducted like material testing , strength tests and durability tests are being discussed in this project.

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