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Utilization of Pervious Concrete in Rainwater Harvesting with Partial Addition of Glass powder

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Abstract : Pervious concrete is a relatively new concept for rural road pavement, with increase into the problems in rural areas related to the low ground water level, agricultural problem pervious concrete as a paving material has seen renewed interest due to its ability to allow water to flow through itself to recharge groundwater level and minimize storm water runoff. This introduction to pervious concrete pavements reviews its applications and engineering properties, including environmental benefits, structural properties, and durability. In rural area cost consideration is the primary factor which must be kept in mind. So that in rural areas costly storm water management practices is not applicable. The project commences with the introduction about pervious concrete along with its involvement in making rainwater harvesting. It follows the preparation and specific mix proportion of pervious concrete with addition of glass powder, Pervious concrete cubes & Prism were casted for five different mixes with addition of glass powder and each cube is cured for 7 days & 28 days. Compression tests were conducted for each cube using compression testing machine. Permeability tests were conducted for each cylinder using permeability testing machine.

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