International Journal of ChemTech Research
CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.11, pp 120-126,2017

Evaluation of Basalt Fibre with Partial Replacement of Fine Aggregate by Foundry Sand in Concrete

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Abstract: In developing countries where concrete is widely used, the high and steadily increasing cost of concrete has made construction is very expensive. This project is experimented to reduce the cost construction and increase strength & durability. The environment has led to studies on various materials which could be used as partially replacement for fine aggregate.In this project, fine aggregate is partially replaced with foundry sand (20,30, 40%), and basalt fiber used to improve the both compression andtensile strength of concrete (2,2.5,3%).Decided to did all the preliminary tests for concrete materials including foundry sand.

Keywords: Foundry sand, Basalt fiber, Compression strength test, tensile strength test.

N.Sathish *et al*/International Journal of ChemTech Research**,** 2017,10(11): 120-126.

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