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(57) Abstract :

The present invention is directed to a fly ash based geopolymers concrete mix that includes (i) fly ash in an amount in a range from 5-7% by weight, (ii) GGBS in an amount in a range from 3-6% by weight, (iii) activator solution in an amount in a range from 4-6% by weight; (iv) aggregates in an amount in a range from 78-85% by weight and (v) added water in an amount in a range from 3.5-4.0% by weight The present invention also discloses a process for preparation of said concrete mix and a process for laying dry lean concrete using said concrete mix. The present invention also discloses a process for preparing activator solution for its dosage in automated modified conventional cement concrete batching plant for the use in the geopolymers concrete mix.

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