



# REPLACEMENT OF CEMENTM WITH RICE HUSK ASH IN CONCRETE



A PROJECT REPORT

*Submitted by*

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*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

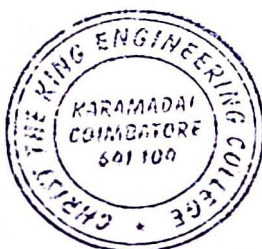
**CIVIL ENGINEERING**


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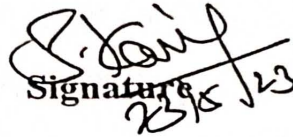
  
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## BONAFIDE CERTIFICATE

Certified that this project report on "REPLACEMENT OF CEMENT WITH RICE HUSK ASH IN CONCRETE" is the Bonafide work of Abiram.T.V(710419103001),AkiL.M.A(710419103002), Ramkumar.M(710419103017),Swathi.H.M.(710419103701) who carried out the project work under my supervision.

  
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Submitted for the project viva-voice examination held on 23-05-2023 .

  
INTERNAL EXAMINER 23/5/23

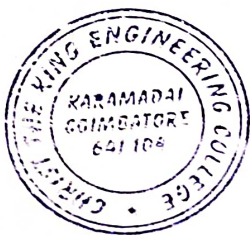



  
EXTERNAL EXAMINER 23/5/23

  
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## ABSTRACT

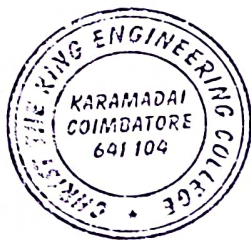
Rice husk can be used as a fuel if it's burnt at high temperature, and it turn into an ash. Ash obtained is porous as cement and its grinding into a fine power. RHA is a pozzolanic material contains 85% of silica content. Using Rice Husk Ash as a substitute material in concrete reduces the environmental problem. Rice husk ash is obtained by burning rice husk in a controlled manner without causing environmental pollution. This project aims for replacement of cement with RHA up to 20% and to study the compressive strength of cubes. Rice Husk Ash has been partially replaced at different percentages (5%,10%,15%,20%) by weight of cement for M25 mix and cube is casted and cured for different cured periods (7days,14days,28days). Compressive tests on cured cubes are considered and the results showed that within crease in replacement percentage.




  
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## CONCLUSION

From the above test, the compressive strength of 5% replacement of cement by RHA is almost equal to conventional concrete. So we recommended that 5% replacement of cement by RHA can be able to reduce the usage and cost of cement. And also we can be able to reduce the agro waste of RHA by substituting it as cement.



  
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