Intellectual Property India





Controller General of Patents, Designs and Trademarks Department of Industrial Policy and Promotion Ministry of Commerce and Industry

## **Application Details**

APPLICATION NUMBER

202041026847

**APPLICATION TYPE** 

**ORDINARY APPLICATION** 

DATE OF FILING

24/06/2020

APPLICANT NAME

1. Dr.A.N.Swaminathen

2. Mr. Gourav Purohit

3. Dr.D.S.Vijayan

4. Mr. Sachin Sharma

5. Dr.V.S.Sethuraman

6 . Dr.L.K.Rex

7. Dr.R.Vidya

8. Mr.P.Dinesh Kumar

9. Mr.S.Ramesh

10 . Mr. Akash Johari

11 . Dr.P.Rajaram

12. Dr.S.Sudhakar

TITLE OF INVENTION

**DURABILITY RESPONSE OF HIGH-PERFORMANCE CONCRETE WITH** 

METAKAOLIN AND RICE HUSK ASH

**FIELD OF INVENTION** 

CHEMICAL

E-MAIL (As Per Record)

answaminathen@gmail.com

ADDITIONAL-EMAIL (As Per Record)

answaminathen@gmail.com

E-MAIL (UPDATED Online)

PRIORITY DATE

REQUEST FOR EXAMINATION DATE

**PUBLICATION DATE (U/S 11A)** 

10/07/2020

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/06/2020

(21) Application No.202041026847 A

(43) Publication Date: 10/07/2020

(54) Title of the invention : DURABILITY RESPONSE OF HIGH-PERFORMANCE CONCRETE WITH METAKAOLIN AND RICE HUSK ASH

(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date (57) Abstract: Concrete is a widely used construction material.	(71)Name of Applicant: 1)Dr.A.N.Swaminathen Address of Applicant: Professor & HEAD Department of Civil Engineering, Sree Sakthi Engineering College, Coimbatore- 641 104, Tamil Nadu, India Tamil Nadu India 2)Mr. Gourav Purohit 3)Dr.D.S.Vijayan 4)Mr.Sachin Sharma 5)Dr.V.S.Sethuraman 6)Dr.L.K.Rex 7)Dr.R.Vidya 8)Mr.P.Dinesh Kumar 9)Mr.S.Ramesh 10)Mr.Akash Johari 11)Dr.P.Rajaram 12)Dr.S.Sudhakar (72)Name of Inventor: 1)Dr.A.N.Swaminathen 2)Mr. Gourav Purohit 3)Dr.D.S.Vijayan 4)Mr.Sachin Sharma 5)Dr.V.S.Sethuraman 6)Dr.L.K.Rex 7)Dr.R.Vidya 8)Mr.P.Dinesh Kumar 9)Mr.S.Ramesh 10)Mr.Akash Johari 11)Dr.P.Rajaram 11)Dr.P.Rajaram 12)Dr.S.Sudhakar
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Concrete is a widely used construction material in developing and developed countries in a structure. After several research results across different countries, the growth of concrete is eyed forward towards the growth of its performance. This high-performance concrete holds the different enhanced properties in it, such as durability by proving resistive to chemically varying atmosphere, vision of CO2 by reducing the amount of cement, increased Ecology balance by balancing natural resources consumption. The attend effective results such as low porosity, low water absorption, sorptivity, and proportioning of materials has always been the key blocks for each curing period. This different mixture of concrete preferred upon further tests where the durability is determined porosity, and sorptivity. From the studies conducted, it observed that metakaolin and rice husk ash play a vital role in improving the durability of concrete at a later stage and improving the compressive strength at an early age.

No. of Pages: 18 No. of Claims: 4