

RAJARAJESWARI COLLEGE OF ENGINEERING



(Affiliated to the Visvesvaraya Technological University, Belgaum) (Recognized by the AICTE, New Delhi)



DEPARTMENT OF CIVIL ENGINEERING NEWS LETTER - SHILANYAS 2023 - 24

Chief Patrons Dr.A. C. SHANMUGHAM

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Head of the Department Civil Engineering

Chief Editor
Prof. M.P.M.KAVYA

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VISION.

To excel in undergraduate instruction in all areas of Civil Engineering with excellent professionalism, sound and technical knowledge and in service to the public to meet technological demands economically and ethically"

MISSION

To offer quality graduate program in civil engineering education. To prepare students for professional carrier and research oriented higher studies. Department promotes excellence in teaching, research, collaborative activities and positive contributions to society"

CIVIL ENGINEERING ASSOCIATION – SHILANYAS

Seminars/Webinars	Workshops/FDP	Industrial Visit
5	2	1

Sl. No	Title	Date	Name of Resource person
1	Project Expo-2024	09/05/2024	Dr.Karisidappa Advisor, RRGI Bangalore
2	Seminar on "Higher studies and Placement opportunities in USA, Canada, UK, Ireland, Germany and Europe"	22/02/2024	Ms.Neha Srivastava Designation Manager,IDP Education Pvt Ltd., Bangalore
3	Career Development Program on REVIT MEP with sustainable Design	08/12/2023	Mr.Abdul Majeed Delta MEP Technical Academy, Bengaluru
4	Two Day Workshop on Entrepreneurship Skill Development Programme on Structural Engineering – 2023	17/11/2023	Er. Syed Faizudeen, Proprietor & Principal Engineer, CivilSoft.
5	Webinar on Research & Innovation in Construction Bio-Technology – 2023	09/11/2023	Dr. C. Arun, M.Tech., Ph.D Professor Biotechology Department
6	Alumni Talk- Entrepreneurship and Construction Management" – 2023	27/7/2023	Mr. Gideon samuel ezekiel Shebah, Constructions, Bangalore.
7	Innovate 2K23 Protype Project Exhibitions	08/5/2023	Shri Ananth Padmanabhan, Startup Mentor, Co-Founder & CEO- worktop

1 Project Expo-2024























2. Seminar on "Higher studies and Placement opportunities in USA, Canada, UK, Ireland, Germany and Europe"







3. Career Development Program on REVIT MEP with sustainable Design



Department of Robotics & Automation, Department of Mechanical Engineering

&
Department of Civil Engineering
organising

Career Development Programme

on REVIT MEP with Sustainable Design



Mr.Abdul Majeed

Lead Engineer

Delta MEP Techanical Academy

Bengaluru

Date:Friday, 08th December 2023 Time: 11.00 am to 1.00 pm

Venue: Arya Bhatta Seminar Hall

#14, Ramohalli Cross, Kumbalagodu, Mysuru Road, Bengaluru - 560 074. Karnataka



www.rrce.org admission@rrce.org Contact: 9008845678 Dr MK



4. Two Day Workshop on Entrepreneurship Skill Development Programme on Structural Engineering -2023









5. Webinar on Research & Innovation in Construction Bio-Technology – 2023









6. Alumni Talk - Entrepreneurship and Construction Management" - 2023







7. Innovate 2K23 Protype Project Exhibitions





II. INDUSTRIAL VISIT

Sl No	Date	Place	Semester	Faculty Incharge
1	07/12/2023	Industrial Visit -ACC -Readymix Plant	5 th , 7 th	Mrs Sharadha







III. LIST OF MAJOR & MINOR RESEARCH PROJECTS/RESEARCH WORK/AIDED RESEARCH PROJECTS UNDER NATIONAL/STATE/PRIVATE FUNDING AGENCIES (INCLUDING STATE GOVT.) DURING THE YEAR 2023-2024

Sl. No.	Name of the Teacher / Principal Investigator	Project Title	Year of Sanction	Funding Agency	Total Amount Sanctioned	Amount utilized during current year	Remarks
1	Dr.K.Aravinthan Head, Civil Engg. Dept, Rajarajeswari college of Engineering, Bangalore	HSO Brick manufacturing Unit	Feburatry - 2024	RRGI	10,00,000	0	





IV PATENT GRANT/RESEARCH OUTCOMES / PAPER PUBLISED BY STUDENTS / FACULTY

Sl	Grant/Project Title	Status	Faculty/Students
N			
0			
	Base isolation techniques for structures with hybrid spherical rollers [HSR]	Granted	Dr.K.Aravinthan
	HSO-BRICK and process for manufacturing thereof	Published	Dr.K.Aravinthan
	Investigation into the efficiency of absorbent for the treatment of waste water	Final year	G.K.Kamalakara, Sagar R, Sonu N, Thejas R, Yeswanth K J
3	A role of zeolite in concrete	Final year	G.K.Kamalakara, Chidananda E, Deekshith Kumar S, Nishanth S N, Pruthvi D

(12) PATENT APPLICATION PUBLICATION

:PCT//

: NA

:NA

:NA

:NA

:NA

:01/01/1900

(19) INDIA

(51) International

(86) International

(87) International

Filing Date

Application Number

Filing Date

Application Number

Filing Date

(62) Divisional to

(61) Patent of Addition to

Application No

Publication No

classification

(22) Date of filing of Application :26/04/2023

(21) Application No.202341030198 A

(43) Publication Date: 26/05/2023

(54) Title of the invention: HSO-BRICK AND PROCESS FOR MANUFACTURING THEREOF

:A61K 314370, A61P 010400, A61P

070200, A61P 350200, A61P 370200

(71)Name of Applicant:

1)ARAVINTHAN KALIMUTHU

Address of Applicant :304, KEMPATTY COLONY,

HOUSING UNIT-5. -----

2)Rajarajeswari College of Engineering

3)Dr. S.Vijayanand

4)Dr.S.Jeyabalan

5)Dr.R.Balakrishna

6)Dr. J.Amutharaj

7)Dr.S.Usha

/)Dr.S.Usna

8)Dr.C.Arun

9)Mr.Ummer Farook Pasha

10)Mrs. K.S.Navya

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor:

1)Dr.K.Aravinthan

Address of Applicant :Associate Professor Civil Engineering Department, Rajarajeswari College of Engineering No, 14

Ramohalli cross, Kumbalagodu, Mysore road Bengaluru – 560074

(57) Abstract:

The present disclosure relates to an HSO-brick comprising: 0-20 % of bacillus subtilis respective to fly ash cement; one part of fly-ash cement; 300-550 % of M-sand with respective to fly ash cement; 40-70 % of water respective to fly ash cement. The present disclosure also relates to a process for preparing an HSO-brick comprising the first mixture of 0-20 % of bacillus subtilis respective to fly ash cement and 40-70 % of water respective to fly ash cement; adding one part of fly ash cement and 300-550 % of M-sand with respective to fly ash cement to form a second mixture; mixing the second mixture in a concrete mixer drum with the first mixture; then molding the final mixture and cast into a brick mold of 19cmx9cmx 9cm; then curing and drying to form an HSO-brick. Furthermore, it discloses the mechanical and durability studies between commercial red brick, fly ash brick, and HSO brick by conducting compressive strength test, water absorption test, sodium sulphate test, Magnesium sulphate test, alkalinity test, and Sulphate resistance test.

No. of Pages: 16 No. of Claims: 10

The Patent Office Journal No. 21/2023 Dated 26/05/2023

39329





The Patent Office, Government Of India पेटेंट प्रमाण पत्र | Patent Certificate

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.

आबेदन सं. / Application No.

201941006772

फाइल करने की तारीख / Date of Filing

20/02/2019

पेटेंटी / Patentee

Aravinthan Kalimuthu

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित BASE ISOLATION TECHNIQUE FOR STRUCTURES WITH HYBRID SPHERICAL ROLLERS (HSR) नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2019 के बीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

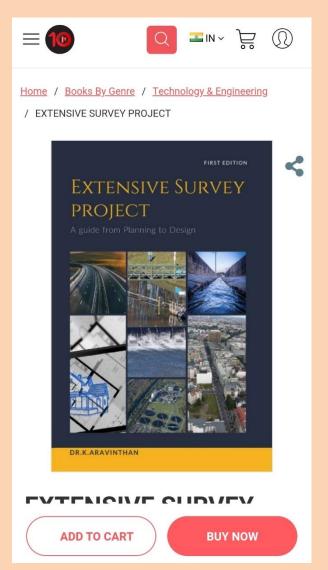
It is hereby certified that a patent has been granted to the patentee for an invention entitled BASE ISOLATION TECHNIQUE FOR STRUCTURES WITH HYBRID SPHERICAL ROLLERS (HSR) as disclosed in the above mentioned application for the term of 20 years from the 20th day of February 2019 in accordance with the provisions of the Patents Act, 1970.

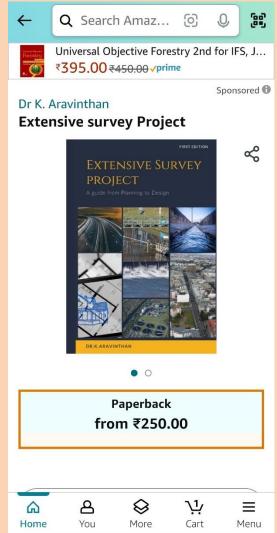
अनुदान की तारीख : Date of Grant : 25/10/2023

हिमानी - इस पेटेट ने नमीनरम ने लिए फीस, यदि इसे बनाए रखा जाना है, मरबरी 2021 की बीसबै दिन की और उसके परबात प्रतीन वर्ष से उसी दिन देंग होगी। Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 20th day of February 2021 and on the same day in every year thereafter.

V BOOKS PUBLISHED BY FACULTY (FROM 01-04-2023 TO 31-03-2024)

Sl. No.	Title	Author/s	Year of Publication	Name of the Publisher/s	Remarks
1	Extensive survey	Dr.K.Aravinthan	2023	Notion Press-	
	Project			National	
2	Extensive survey	Dr.K.Aravinthan	2023	Amazon Kindle	
	Project				





VI CONFERENCE, SYMPOSIA, SEMINARS, WORKSHOPS ETC. ATTENDED BY FACULTIES

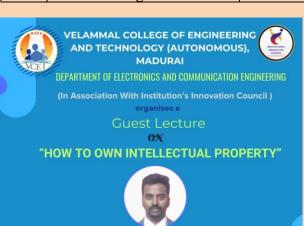
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Sl. No.	Name of the Teacher	Name of the Conference etc.	Place	Date	No. of papers presented	Remarks
1	Dr.K.Aravinthan	Multiwave imaging assessment of civil Structures	Bengaluru	29/02/2024	0	
2	Dr.K.Aravinthan	Baumanns method for design of concrete shell practice	Bengaluru	28/02/2024	0	
3	Dr.K.Aravinthan	Health rating system for the infrastructures	Bengaluru	25/01/2024	0	
4	Dr.K.Aravinthan	FE analysis of prestressed concrete beam with large opening	Bengaluru	25/10/2023	0	
5	Dr.K.Aravinthan	Forensic structural Engineering	Bengaluru	30/03/2024	0	
6	Mrs.M.P.M.Kavya	Hazordous materials management	Bengaluru	05/07/2023- 07/08/2023	0	
7	Mrs.M.P.M.Kavya	3-D Printing and Additive manufacturingTechnology	Bengaluru	26/02/2024	0	
8	Mr.G.K.Kamalakara	3-D Printing and Additive manufacturingTechnology	Bengaluru	26/02/2024	0	
9	Mrs.M.C.Malarvizhi	3-D Printing and Additive manufacturingTechnology	Bengaluru	26/02/2024	0	
10	Mrs.M.P.M.Kavya	Webinar on Research & Innovation in Construction Bio-Technology – 2023	Bengaluru	09/11/2023	0	
11	Mr.G.K.Kamalakara	Webinar on Research & Innovation in Construction Bio-Technology – 2023	Bengaluru	09/11/2023	0	
12	Mrs.M.C.Malarvizhi	Webinar on Research & Innovation in Construction Bio-Technology – 2023	Bengaluru	09/11/2023	0	
13	Mrs.M.P.M.Kavya	Two Day Workshop on Entrepreneurship Skill Development Programme on Structural Engineering – 2023	Bengaluru	17/11/2023	0	
14	Mr.G.K.Kamalakara	Two Day Workshop on Entrepreneurship Skill Development Programme on Structural Engineering – 2023	Bengaluru	17/11/2023	0	
15	Mrs.M.C.Malarvizhi	Two Day Workshop on Entrepreneurship Skill Development Programme on	Bengaluru	17/11/2023	0	

		Structural Engineering – 2023				
16	Mrs.M.P.M.Kavya	Career Development Program on REVIT MEP with suistainable Design	Bengaluru	08/12/2023	0	
17	Mr.G.K.Kamalakara	Career Development Program on REVIT MEP with suistainable Design	Bengaluru	08/12/2023	0	
18	Mrs.M.C.Malarvizhi	Career Development Program on REVIT MEP with suistainable Design	Bengaluru	08/12/2023	0	

VII INVITED SPECIAL LECTURES DELIVERED BY THE FACULTIES

Sl. No.	Name of the Invited Scholar with full Address	Title of the Lecture delivered	Area of Specialization	Date of the Lecture
1	Dr.K.Aravinthan Prof& Head, Civil Engg. Dept, Rajarajeswari college of Engineering,Bangalore	Ow to own intellectual property,	Engineering	09/02/2024
2	Dr.K.Aravinthan Prof& Head, Civil Engg. Dept, Rajarajeswari college of Engineering,Bangalore	Intellectual Properties rights for software engineers	Engineering	06/01/2024
3	Dr.K.Aravinthan Prof& Head, Civil Engg. Dept, Rajarajeswari college of Engineering,Bangalore	Intellectual property rights – Engineers	Engineering	18/12/2023
4	Dr.K.Aravinthan Prof& Head, Civil Engg. Dept, Rajarajeswari college of Engineering,Bangalore	Innovative idea to start-up	Engineering	18/10/2023
5	Dr.K.Aravinthan Prof& Head, Civil Engg. Dept, Rajarajeswari college of	Sustainable Innovation and Technological Development	Engineering	15/09/2023

	Engineering,Bangalore			
6	Dr.K.Aravinthan Prof& Head, Civil Engg. Dept, Rajarajeswari college of Engineering,Bangalore	Recent Environmental Challenges for Indian Engineers	Engineering	16/06/2023
7	Dr.D.C.Sharma RRGI Bangalore	Innovative approaches for medical waste management	Engineering	13/02/2024



Dr. K. Aravinthan, ME(str), Phd

HOD / Civil, Rajarajeshwari College of Engineering, Bangalore For Final Year ECE students



VENUE Seminar Hall - II (TIME

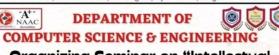
PATRONS DR. N. SURESH KUMAR DR. S. VASUKI DEAN (STUDENT AFFAIRS)

CONVENER DR. K. KAVITHA ROF & HEAD / ECE



RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi) #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074



Organizing Seminar on "Intellectual Property Rights - Software Engineers"



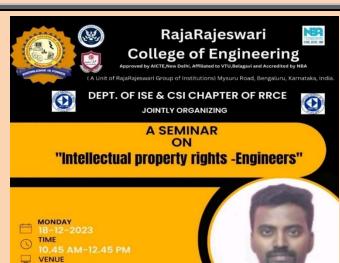
Coordinators: Mrs.Priyanka V .Gudada Mrs.Suhasini Bagalkot

Dr S.Usha DEAN R & D & HOD, CSE Dr R.Balakrishna Principal, RRCE

ROAD, BENGALURU -560074



#14, RAMOHALLI CROSS, Www.rrce.org
KUMBALGODU, MYSORE
ROAD, BENGALURU -Ph.No:9008845678





ORANIZING COMMITTEE

- Dr. R. Balakrishna, Principal ●Dr. J. Amutharaj, Vice principal & HoD - ISE
 - Dr. Sreenivasmurthy V, ASP ISE
 - •Mr. Dineshkumar M, AP ISE
 - Mrs. T. Rathidevi, AP ISE
 - •Mrs. Vijayalaxmi joshi, AP ISE
 - Ms. Sinchana M N, AP ISE
 - Mrs. Pavithra N, AP ISE
 - Mrs. Yamunashree S, AP ISE

Resource Person

Dr. K. Aravinthan ME(Str.), PhD,Inventor HOD Civil Engineering



















VIII ACADEMICS NEWS

Sl No	Semester/Year	Name of the student	Awards
1	Graduated- 2023	Mr.Lalithesh S L [1RR19CV018]	Department overall topper
2	IV-Semester	Mr.M.D.Asif Alam [1RR22CV402]	Class Topper – First Class with Distinction
3	V-Semester	Mr.Chandan T C [1RR22CV400]	Class Topper – First Class with Distinction
4	VI-Semester	Ms.Rushitha V K	Class Topper – First Class with Distinction
5	VII- Semester	Sadaf Shabir [1RR20CV010]	Class Topper – First Class with Distinction



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DEPARTMENT OF CIVIL ENGINEERING

CONGRATULATIONS



M D ASHIF ALAM 1RR22CV402

FIRST CLASS DISTINCTION IV Semester - University Exam

#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560 074, Karnataka, India.



www.rrce.org

admission@rrce.org Contact: 9008845678

CET Code: E145

COMED-K:E099

PGCET: T858



RAJARAJESWARI COLLEGE OF ENGINEERING

An Autonomous Institution Approved by UGC under VTU*, Approved by AICTE

DEPARTMENT OF CIVIL ENGINEERING (A)



CONGRATULATES







Chandan T C 1RR22CV400 FIRST CLASS - DISTINCTION **V SEMESTER - UNIVERSITY EXAM**

Admission Open for 2024-25

CET CODE: E145 COMED-K: E099

Contact: 9008845678

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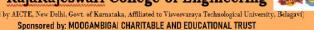




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DEPARTMENT OF CIVIL ENGINEERING

VII -SEMESTER CLASS TOPPERS



RUCHITHA V K 1RR21CV407 CLASS - II 80.63%



SADAF SHABIR 1RR20CV010 CLASS - I 83.5%



VARSHA KEERTHI S C 1RR20CV014 CLASS - III 80.25%









CET CODE - E415 COMED-K - E099 PGCET - T858

Campus: #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

Phone: +91-80-28437124 / 28437375

Email Id: hodcivil@rrce.org

Website: https://www.rrce.org



RAJARAJESWARI COLLEGE OF ENGINEERING, BENGALURU



14th GRADUATION CEREMONY







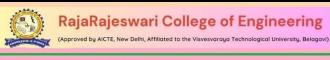


Best Wishes
For Your
Future Endeavors

Department Topper
LALITHESH S L
1RR19CV018
DEPARTMENT OF CIVIL ENGINEERING

IX PLACEMENT/HIGHER STUDIES NEWS

Sl No	Year	Name of the student	Company / College Name
1	2023	Mr. Moien Mohi ud din Bhat	Byjus – Salary 7LPA
		[1RR19CV018]	
2	2023	Mr.Pruthviraj	Ms Terra products
		IV- Year student	
3	2023	Ms. Varsha Keerthi Sindhu C	Ms Terra products











DEPARTMENT OF CIVIL ENGINEERING CONGRATULATES



MOIEN MOHI UD DIN BHAT 2023 - PASSEDOUT STUDENT

> **COMPANY - BYJUS** SALARY - 7LPA

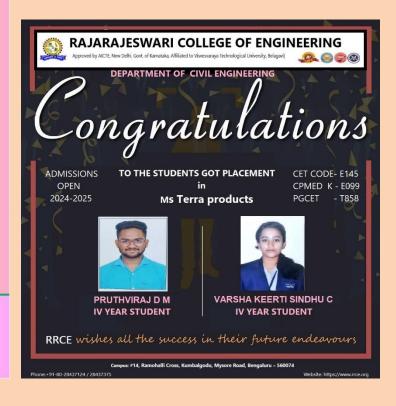
#14,Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560 074, Karnataka, India.



www.rrce.org admission@rrce.org Contact: 9008845678

CET Code: E145 COMED-K:E099

PGCET: T858



X EXTRA CURRUCULLAR ACTIVITIES

SI N	Activity	Name of the student/Staff	Award
0			
1	RRCE-NCC Naval Cadets – Kalaripayattu Indian martial arts training	Dr.K.Aravinthan	Training
2	Sparda – 2023 Intercollege state Level KHO-KHO Tournament	S.Mani	Runner up
3	Christmas crib competition - 2023	Jithendra H K, Chandan T C, Shravanai M, Abhilash S, MD Ashif alam	Participated
4	Autocad Internship	Sadaf Shabir	Training Certificate
5	Industrial Program	Sadaf Sabhir	Training Certificate
6	Shilparamam Hyderabad	Abhishek K A	Honored

7	Arengatram-Sri Kalalyana Kamakshi amman Temple	Abhishek K A	Honored
8	Arengatram-Kalasouraba	Abhishek K A	Honored
9	Intra College Tournament – Kabaddi - RRCE	Sudeep H N	Runners
10	Intra College Tournament – Short put -RRCE	Sudeep H N	II - Prize
11	Intra College Tournament – Javelin - RRCE	Sudeep H N	III- Prize



















