

**EXPERIMENTAL STUDY ON CONCRETE BY  
PARTIAL REPLACEMENT OF COPPER SLAG AS A  
FINE AGGREGATE**

**A PROJECT REPORT**

*Submitted by*

**A.ARUL SAHAYA SHALINI**

**G.BALASEETHA**

**N.BLESSY**

**C.BALA MURUGAN**

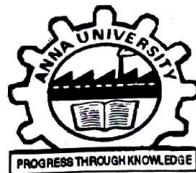
*in partial fulfillment for the award of the*

*degree of*

**BACHELOR OF ENGINEERING**

**IN**

**CIVIL ENGINEERING**



**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY  
PALKULAM, KANYAKUMARI DISTRICT**

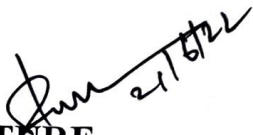
**ANNA UNIVERSITY: CHENNAI 600 025**

**JUNE 2022**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**EXPERIMENTAL STUDY ON CONCRETE BY PARTIAL REPLACEMENT OF COPPER SLAG AS A FINE AGGREGATE**” is the bonafide work of **A. ARUL SAHAYA SHALINI [963318103026], G.BALASEETHA [963318103032], C.BALAMURUGAN [963318103307], N.BLESSY [963318103034]** who carried out the project work under my supervision.

  
21/6/22

**SIGNATURE**

Dr. J.SAHAYA RUBEN, M.E., Ph.D.,

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering

Rohini College of Engineering &

Technology, Palkulam, Kanyakumari.



**SIGNATURE**

Ms. B. CHELLAPRIYA M.E.,

**ASSISTANT PROFESSOR**

Department of Civil Engineering

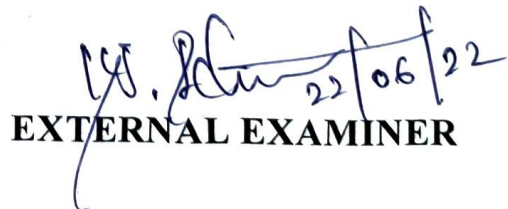
Rohini College of Engineering &

Technology, Palkulam, Kanyakumari.

*Submitted for the Design Project Viva-Voce Examination held on 22/06/2022*

  
22/06/22

**INTERNAL EXAMINER**

  
22/06/22

**EXTERNAL EXAMINER**

**EXPERIMENTAL INVESTIGATION ON CONCRETE  
USING M-SAND AS A PARTIAL REPLACEMENT OF  
RIVER SAND**

**A PROJECT REPORT**

*Submitted by*

<b>S. L. ABIJITH</b>	<b>963318103004</b>
<b>J. JERISTON ACKSNO</b>	<b>963318103050</b>
<b>S. JEYASREE</b>	<b>963318103052</b>
<b>M. AKSHIYA</b>	<b>963318103303</b>

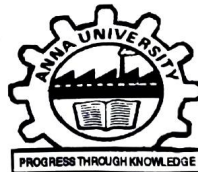
*in partial fulfillment for the award of the*

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**IN**

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**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY  
PALKULAM, KANYAKUMARI DISTRICT**

**ANNA UNIVERSITY : CHENNAI 600 025**

**JUNE 2022**

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**EXPERIMENTAL INVESTIGATION ON CONCRETE USING M-SAND AS A PARTIAL REPLACEMENT OF RIVER SAND**” is the bonafide work of **S. L. ABIJITH [963318103004], J. JERISTON ACKSNO [963318103050], S. JEYASREE [963318103052], M. AKSHIYA [963318103303]** who carried out the project work under my supervision.



**SIGNATURE**

**Dr.J.SAHAYA RUBEN, M.E.,Ph.D.,**

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering

Rohini College of Engineering &

Technology, Palkulam, Kanyakumari.



**SIGNATURE**

**Dr.N.SUTHANKUMAR,M.E.,Ph.D.,**

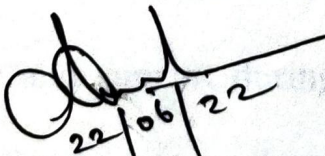
**SUPERVISOR**

Department of Civil Engineering

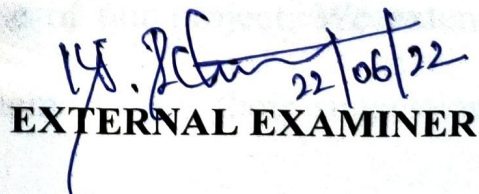
Rohini College of Engineering &

Technology, Palkulam,Kanyakumari.

*Submitted for the Design Project Viva-Voce Examination held on 22-06-2022*



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**EXPERIMENTAL INVESTIGATION OF FERROCEMENT  
DOOR PANEL**

**A PROJECT REPORT**

*Submitted by*

<b>J.ANTONY JEBIN</b>	<b>963318103022</b>
<b>J.ASHLIN JINISHA</b>	<b>963318103027</b>
<b>R.CHITHRA KALA</b>	<b>963318103037</b>
<b>K.MALLESHWARAN</b>	<b>963318103058</b>

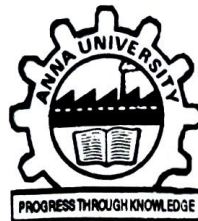
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**PALKULAM, KANYAKUMARI DISTRICT**

**ANNA UNIVERSITY: CHENNAI 600 025**

**JUNE 2022**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that the project report “**EXPERIMENTAL INVESTIGATION OF CONCRETE BY USING TYRE WASTE AS A PARTIAL REPLACEMENT OF COARSE AGGREGATE**” is the bonafide work of **J.AJITHA [963318103009], V.ANUJA [963318103023], K.KARTHIKA [963318103054], S.MARY ASHWINI [963318103059]** who carried out the project work under my supervision.

  
**SIGNATURE**

**Dr.J.Sahaya Ruben,M.E,Ph.D.,**

**Head of the department**

Department of Civil Engineering

Rohini College of Engineering &

Technology,

Palkulam, Kanyakumari

  
**SIGNATURE**

**Mrs.T.Suthamalli,M.E.,**

**Supervisor**

Department of Civil Engineering

Rohini College of Engineering&

Technology,

Palkulam,Kanyakumari

*Submitted for the project University Examination held on ....22./06/.2022*

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**

**EXPERIMENTAL INVESTIGATION ON STRENGTH OF  
CONCRETE BY USING TITANIUM DIOXIDE (TiO<sub>2</sub>)  
SLUDGE AS A PARTIAL REPLACEMENT FOR CEMENT**

**A PROJECT REPORT**

*Submitted by*

**BEORINS.J**

**ANJALI DEVI.B**

**BEBINA.E**

**BHARVITHA.V**

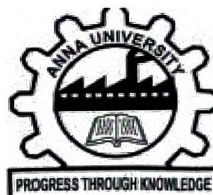
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**PALKULAM, KANYAKUMARI DISTRICT**

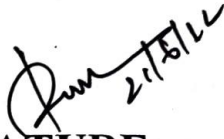
**ANNA UNIVERSITY :CHENNAI 600 025**

**JUNE 2022**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that the project report “**EXPERIMENTAL INVESTIGATION ON STRENGTH OF CONCRETE BY USING TITANIUM DIOXIDE (TiO<sub>2</sub>) SLUDGE AS A PARTIAL REPLACEMENT FOR CEMENT**” is the bonafide work of **BEORINS J(963318103310), ANJALI DEVI B (963318103021), BEBINA E (963318103308), BHARVITHA V (963318103033)** who carried out the project work under my supervision



**SIGNATURE**

**Dr.J.Sahaya Ruben, M.E, Ph.D.,**

**Head of the department**

Department of Civil Engineering  
Rohini College of Engineering &  
Technology,  
Palkulam, Kanyakumari



**SIGNATURE**

**Ms.B.Chella priya M.E.,**

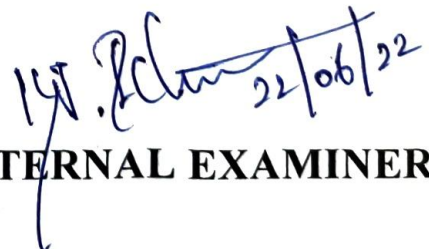
**Supervisor**

Department of Civil Engineering  
Rohini College of Engineering &  
Technology,  
Palkulam, Kanyakumari

*Submitted for the project University Examination held on 22/06/2022.....*



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



**EXPERIMENTAL INVESTIGATION OF GREEN  
CONCRETE USING DEMOLITION WASTE AS A PARTIAL  
REPLACEMENT OF COARSE AGGREGATE**

**A PROJECT REPORT**

*Submitted by*

<b>B.BRUNDHA</b>	<b>963318103036</b>
<b>J.HEPZIBAH SUGANTHI</b>	<b>963318103044</b>
<b>V.AJAYSEN</b>	<b>963318103302</b>
<b>K.DISHON KUMAR</b>	<b>963318103313</b>

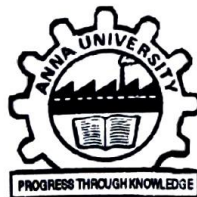
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**IN**

**CIVIL ENGINEERING**



**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**PALKULAM, KANYAKUMARI DISTRICT**

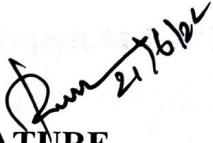
**ANNA UNIVERSITY: CHENNAI 600 025**

**JUNE 2022**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report " **EXPERIMENTAL INVESTIGATION OF GREEN CONCRETE USING DEMOLITION WASTE AS A PARTIAL REPLACEMENT OF COARSE AGGREGATE** in the bonafide work of "B.BRUNDHA [963318103036],J.HEPZIBAH SUGANTHI[963318103044], V.AJAYSEN [963318103302],K.DISHON KUMAR [963318103313]" who carried out the project work under my supervision.



**SIGNATURE**

Dr.J.SAHAYA RUBEN,M.E.,Ph.D.,

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering

Rohini college of engineering

and technology,

Palkulam, Kanyakumari.



**SIGNATURE**

Mrs.R.K.ASWINI,M.E.,

**SUPERVISOR**

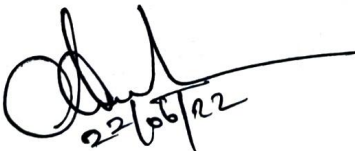
Department of Civil Engineering

Rohini college of engineering

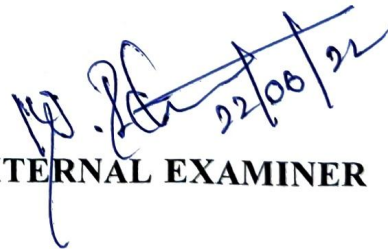
and technology,

Palkulam, Kanyakumari.

Submitted for the Project University Examination held on.....22.06.22



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**EXPERIMENTAL AND RESEARCH ON  
PAPERCRETE**

**A PROJECT REPORT**

*Submitted by*

**BHASKER BHATT (963318103311)**

**IROM BUSHAN SINGH (963318103046)**

**MILTON LAISHRAM (963318103060)**

**NONGMAITHEM MANOJ SINGH (963318103074)**

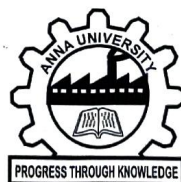
*In partial fulfillment for the award of the degree*

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**BACHELOR OF ENGINEERING**

**IN**

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**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**ANNA UNIVERSITY : CHENNAI 600 025**

**JUNE 2022**

**ANNA UNIVERSITY : CHENNAI 6000 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**EXPERIMENTAL AND RESEARCH ON PAPERCRETE**” is bonafide work of

BHASKER BHATT	963318103311
IROM BUSHAN SINGH	963318103046
MILTON LAISHRAM	963318103060
NONGMAITHEM MANOJ SINGH	963318103074

who carried out project work under my supervision.

  
SIGNATURE

**Dr. J. SAHAYA RUBEN, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering

Rohini College of Engg. & Technology

SIGNATURE

  
**Prof. HARI GOPALAKRISHNAN**

**SUPERVISOR, Assistant professor**


Department of Civil Engineering

Rohini college of Engg. & Technology

Submitted for the project viva-voice examination held on 22/06/22.....

  
.....

Internal Examiner

  
.....

External Examiner

**EXPERIMENTAL STUDY ON NATURAL  
COAGULANTS OVER CHEMICALS IN  
PURIFICATION OF SULLAGE**

**A PROJECT REPORT**

*Submitted by*

**MOIRANGTHEM NIKHIL SINGH (963318103063)**

**MAHESH SINGH CHANGAMAYUM (963318103057)**

**AHEIBAM NONGTHON MEETEI (963318103005)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**CIVIL ENGINEERING**

**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**ANNA UNIVERSITY: CHENNAI 600 025**

**JUNE 2022**

**ANNA UNIVERSITY: CHENNAI 6000 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**EXPERIMENTAL STUDY ON NATURAL COAGULANTS OVER CHEMICALS IN PURIFICATION OF SULLAGE**” is bonafide work of

MAHESH SINGH CH.

963318103057

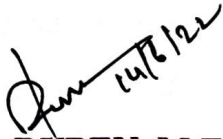
M. NIKHIL SINGH

963310103063

A. NONGTHON MEETEI

963318103005

who carried out the project under my supervision.

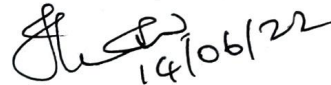


**Dr. J. SAHAYA RUBEN, M.E., Ph.D.,**

Head of the department

Department of Civil Engineering

Rohini College Of Engineering & Technology



**Prof. HARI GOPALA KRISHNAN**

Supervisor, Assistant professor

Department of Civil Engineering

Rohini College of Engineering & Technology

Submitted for the project viva-voice examination held on 22/06/22



Internal Examiner



External Examiner

**EXPERIMENTAL INVESTIGATION ON CEMENT  
CONCRETE WITH SEA SHELL POWDER**

**A PROJECT REPORT**

*Submitted by*

<b>P.J. AJITH</b>	<b>963318103008</b>
<b>P. JESLIN</b>	<b>963318103051</b>
<b>T.ANISH</b>	<b>963318103020</b>
<b>P.BALAMURUGAN</b>	<b>963318103306</b>

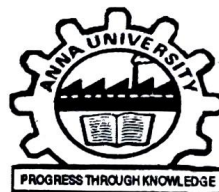
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**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**PALKULAM, KANYAKUMARI DISTRICT**

**ANNA UNIVERSITY : CHENNAI 600 025**

**JUNE 2022**

**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**EXPERIMENTAL INVESTIGATION ON CEMENT CONCRETE WITH SEA SHELL POWDER**” is the bonafide work of **P.J. AJITH [963318103008], P. JESLIN [963318103051], T. ANISH [963318103020], P.BALAMURUGAN [963318103306]** who carried out the project work under my supervision.

  
**SIGNATURE**

Dr. J.SAHAYA RUBEN, M.E.,Ph.D.,

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering

Rohini College of Engineering &

Technology, Palkulam, Kanyakumari.

  
**SIGNATURE**

Mr,R.Rajiv Gandhi,M.E.,

**SUPERVISOR**

Department of Civil Engineering

Rohini College of Engineering &

Technology, Palkulam, Kanyakumari.

*Submitted for the Design Project Viva-Voce Examination held on...22-06-2022*

**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**



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**PRODUCTION OF ECO-BRICKS FROM INDUSTRIAL  
WASTE USING ALKALI-ACTIVATED TECHNOLOGY**

**A PROJECT REPORT**

*Submitted by*

**JUNAID D**

**AKASH SANTHOSH**

**AJU MATHEW**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**CIVIL ENGINEERING**



**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF CIVIL ENGINEERING**

**ANNA UNIVERSITY: CHENNAI 600 025**

**JUNE 2022**

---

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report titled “**PRODUCTION OF ECO - BRICKS FROM INDUSTRIAL WASTE USING ALKALI-ACTIVATED TECHNOLOGY**” is the bonafide work of “**JUNAID D (963318103053), AKASH SANTHOSH (963318103012), AJU MATHEW (963318103010)**.”

who carried out the project work under my supervision.

  
**SIGNATURE**

**DR. J. SAHAYA RUBEN, M.E, Ph.D**

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering ,

Rohini College of Engineering and

Technology.

Palkulam, Kanyakumari District, T.N

  
**SIGNATURE**

**Prof. A. ANANTH , M.E**

**SUPERVISOR**

Department of Civil Engineering

Rohini College of Engineering and

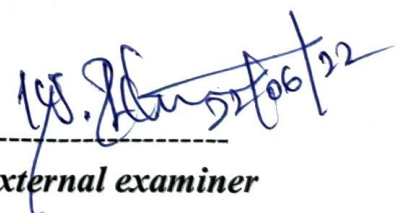
Technology.

Palkulam, Kanyakumari District, T.N

Submitted for the Design Project Viva – Voce Examination held on 22/06/22

  
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**Internal examiner**

  
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**External examiner**

**EXPERIMENTAL INVESTIGATION ON FLY ASH  
BRICKS USING POLYPROPYLENE**

**A PROJECT REPORT**

*Submitted by*

<b>S.AMBIKA</b>	<b>963318103014</b>
<b>T.AMISHA DEVI</b>	<b>963318103015</b>
<b>V.DEEPTHI</b>	<b>963318103038</b>
<b>C.ESTHER MARY</b>	<b>963318103040</b>

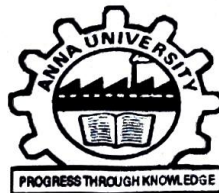
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**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY  
PALKULAM, KANYAKUMARI DISTRICT**

**ANNA UNIVERSITY: CHENNAI 600 025**

**JUNE 2022**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**EXPERIMENTAL INVESTIGATION ON FLY ASH BRICKS USING POLYPROPYLENE**” is the bonafide work of **S . AMBIKA (963318103014),T.AMISHADEVI(963318103015),V.DEEPTHI (963318103038),C.ESTHER MARY(963318103040)**who carried out the project work under my supervision.



**SIGNATURE**

Dr. J.SAHAYA RUBEN, M.E.,Ph.D.,

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering

Rohini College of Engineering &

Technology, Palkulam, Kanyakumari.



**SIGNATURE**

Dr. J.SAHAYA RUBEN, M.E.,Ph.D.,

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering

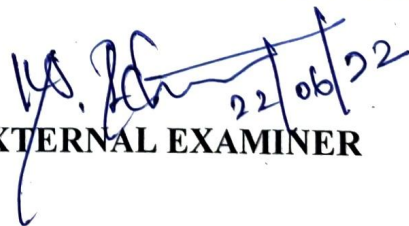
Rohini College of Engineering &

Technology, Palkulam, Kanyakumari.

*Submitted for the Design Project Viva-Voce Examination held on 22/06/22*



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**EXPERIMENTAL STUDY ON CONCRETE WITH PARTIAL  
REPLACEMENT OF ORDINARY COARSE AGGREGATE BY  
RECYCLED COARSE AGGREGATE**

**A PROJECT REPORT**

*Submitted by*

<b>ANAND BALAJI A</b>	<b>963318103016</b>
<b>ABHIRAMI RAJ</b>	<b>963318103002</b>
<b>BABISHA M</b>	<b>963318103030</b>
<b>GOWRI HARSHINI R</b>	<b>963318103041</b>

*in partial fulfilment for the award of the*

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**IN**

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**PALKULAM, KANYAKUMARI DISTRICT**

**ANNA UNIVERSITY: CHENNAI 600 025**

**JUNE 2022**

ANNA UNIVERSITY: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that the project report "EXPERIMENTAL STUDY ON CONCRETE WITH PARTIAL REPLACEMENT OF ORDINARY COARSE AGGREGATE BY RECYCLED COARSE AGGREGATE" is the bonafide work of ANAND BALAJI A (963318103016), ABHIRAMI RAJ (963318103002), BABISHA M (963318103030), GOWRI HARSHINI R (963318103041) who carried out the project work under my supervision.



**SIGNATURE**

**Dr. J. Sahaya Ruben, M.E, Ph.D.,**

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering

Rohini College of Engineering &

Technology,

Palkulam, Kanyakumari



**SIGNATURE**

**Mr. L. Hari Gopala Krishnan, M.Tech**

**SUPERVISOR**

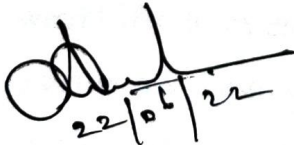
Department of Civil Engineering

Rohini College of Engineering &

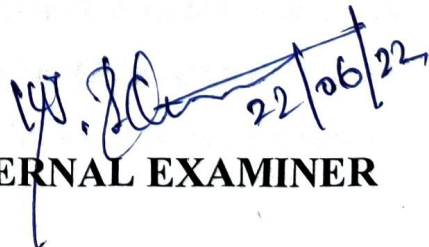
Technology,

Palkulam, Kanyakumari

Submitted for the project University Examination held on 22/06/2022.....



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **THERMOCHEMICAL TREATMENT OF SLUDGE**

**A PROJECT REPORT**

*Submitted by*

<b>BALA SOWBARNIKA P</b>	<b>963316103027</b>
<b>JENITA C</b>	<b>963316103041</b>
<b>PRIYA M L</b>	<b>963316103060</b>
<b>THANGA PRIYA M</b>	<b>963316103085</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**CIVIL ENGINEERING**

**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**PALKULAM, KANYAKUMARI DISTRICT**



**ANNA UNIVERSITY : CHENNAI 600 025**

SEPTEMBER 2020



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**ANNA UNIVERSITY : CHENNAI 600 025**

SEPTEMBER 2020





**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project “**THERMOCHEMICAL TREATMENT OF SLUDGE**” is the bonafide work of “**BALA SOWBARNIKA, JENITA, PRIYA, THANGA PRIYA**” who carried out the project work under my supervision.

Dr. J. SAHAYA RUBEN

**HEAD OF THE DEPARTMENT**

Department of Civil Engineering

Rohini College of Engineering and Technology

Palkulam, Kanyakumari District

Tamil Nadu.

Mrs.T.SUTHAMALLI

**SUPERVISOR**

Department of Civil Engineering

Rohini College of Engineering and Technology

Palkulam, Kanyakumari District

Tamil Nadu.

*Submitted for the Design Project Viva – Voice Examination held on \_\_\_\_\_*

**Internal Examiner**

**External Examiner**





தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்  
TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)  
Directorate of Technical Education Campus, Chennai - 600 025

Phone : 044 - 2230 1428

Web : www.tanscst.nic.in

Telefax : 044 - 2230 1552

E-mail : ms.tanscst@nic.in/enquiry.tanscst@nic.in

**DR. R. SRINIVASAN**, M.Sc., Ph.D., F.I.C.S., M.A.C.S. (USA).  
Member Secretary

Kind attention of Principal/Registrar

Lr.no:TNSCST/SPS2019-20/

18.12.2020

To  
The Principal  
Rohini College of Engineering & Technology  
Kanyakumari - 629 401

Sir,

Sub : Student Project Scheme (2019-20) - submission of Utilization Certificate – reg.

Ref. : 1 Council approval dt.18.03.2020


2. Announcement in council's website dt.12.09.2020 & e mail to individual guide

With reference to the above council have sanctioned the student project and hope your students have completed the same. On completion of the project, as per approval you have to submit the Utilisation Certificate in the prescribed format (already sent & available in council website) duly signed by the Guide, HoD and Head of the Institution with seal.

Kindly arrange to **submit Utilisation Certificate (hard copy) or refund the grant as DD on or before 31.12.2020**. Project details are

Mrs. R. Sahila Devi HOD, Dept. of CSE Rohini College of Engineering and Technology Kanyakumari - 629 401	Real Time Fatigue Detection Using Raspberry Pi	Bibin Mohan S. Nagarajan I. Nagulesh J. Stepin Jegan	CSE-036	6500/-
Dr. J. Sahaya Ruben Head and Professor Dept. of Civil Engineering Rohini College of Engineering and Technology Kanyakumari - 629 401	Effective Utilization of Sludge Waste as a Partial Replacement of fine aggregate in Construction Application	C. Jenita P. Bala Sowbarnika M.L. Priya M. Thanga Priya	ECV-015	7500/-
Mrs. J. Basline Jenuba Asst. Prof. / Dept. of ECE Rohini College of Engineering and Technology Kanyakumari - 629 401	Design and Implementation of an Automatic Fire Exstinguishing Alert System with Safety Ladders	Ashisha.H.Jiji.Sa m R. Bala Brintha A. Kalavathi	EEE-028	7500/-

Yours faithfully

  
18/12/20  
Member Secretary  
