

COST AND EFFECT MANAGEMENT OF LANDFILL LEACHATE USING LOW-COST FILTER MATERIALS

A PROJECT REPORT (PHASE II)

Submitted by,

JAYA PRAKASH. J

In partial fulfillment for the award of the degree

Of

MASTER OF ENGINEERING

in

CONSTRUCTION ENGINEERING AND MANAGEMENT



ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY,

PALKULAM.

ANNA UNIVERSITY: CHENNAI 600 025

JULY 2024

**COST AND EFFECT MANAGEMENT OF LANDFILL
LEACHATE USING LOW-COST FILTER MATERIALS**

A PROJECT REPORT (PHASE II)

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JAYA PRAKASH. J

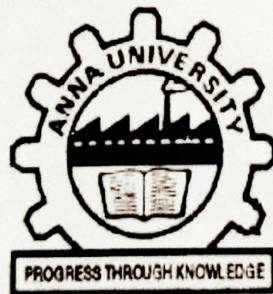
In partial fulfillment for the award of the degree

Of

MASTER OF ENGINEERING

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ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY,

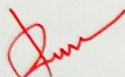
PALKULAM.

ANNA UNIVERSITY: CHENNAI 600 025

JULY 2024

BONAFIDE CERTIFICATE

Certified that this project report “ **COST AND EFFECT MANAGEMENT OF LANDFILL LEACHATE USING LOW COTS FILTER MATERIAL** ” is the bonafide work of **JAYA PRAKASH. J (963322418010)**, who carried out project work under my supervision.



SIGNATURE

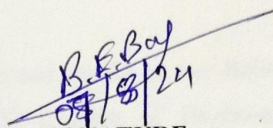
Dr.J. Sahaya Ruben, M.E.Ph.D.,

HEAD OF THE DEPARTMENT

Department of civil engineering

College of Engineering & Tech.

Palkulam.



SIGNATURE

Mr.B. Easvara thayabalan, M.E.,

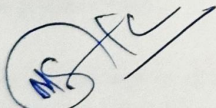
SUPERVISOR

Department of civil Engineering Rohini

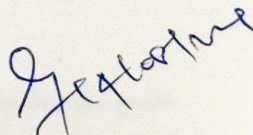
Rohini College of Engineering & Tech.

Palkulam.

Submitted by viva voce examination held on 14/08/24



INTERNAL EXAMINER



EXTERNAL EXAMINER

**DECISION SUPPORT METHODOLOGY FOR
REMEDATION PLANNING OF
CONCRETE BRIDGES**

A THESIS

Submitted by

GRACE LAVANYA VARGHESE

in the partial fulfillment for the award of the degree of

**MASTER OF ENGINEERING IN CONSTRUCTION
ENGINEERING AND MANAGEMENT**



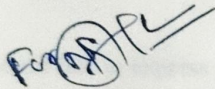
**ROHINI COLLEGE OF ENGINEERING
AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ANNA UNIVERSITY: CHENNAI 600 025**

AUGUST 2024

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that project report titled "DECISION SUPPORT METHODOLOGY FOR REMEDIATION PLANNING OF CONCRETE BRIDGES" is the bonafide work of GRACE LAVANYA VARGHESE (963322418008) who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



SIGNATURE

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

HEAD OF THE DEPARTMENT

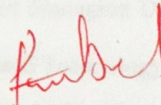
Department of Civil Engineering

Rohini college of Engineering

& Technology, Palkulam

Anjugramam – 629401.

SIGNATURE



Dr. M. Tamilselvi M.E, Ph.D.,

ASSISTANT PROFESSOR

Department of Civil Engineering

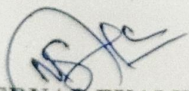
Rohini college of Engineering

& Technology, Palkulam

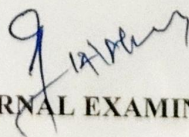
Anjugramam – 629401.

Submitted for the Thesis viva -voice examination held on

14/8/24



INTERNAL EXAMINER



EXTERNAL EXAMINER

PLANNING AND SCHEDULING OF MULTI-STOREY BUILDING

A THESIS

Submitted by

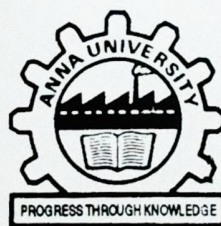
JAYARAM K

In partial fulfillment of the award of the degree

MASTER OF ENGINEERING

In

CONSTRUCTION ENGINEERING & MANAGEMENT



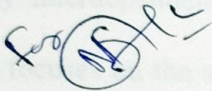
**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY
PAULKULAM, KANYAKUMARI**

ANNA UNIVERSITY: CHENNAI 600 025

AUGUST 2024

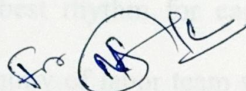
BONAFIDE CERTIFICATE

Certified that this Report titled **“PLANNING AND SCHEDULING OF MULTI-STOREY BUILDING”** is the bonafide work of JAYARAM K (963322418011): who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



Dr.J.Sahaya Ruben.,ME.,Ph.D.,

HEAD OF THE DEPARTMENT
Department of Civil Engineering
Rohini College of Engineering
And technology
Palkulam,Anjugramam,

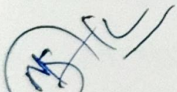


Mr.K.AJAN.,ME.,

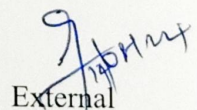
ASSISTANT PROFESSOR
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Palkulam ,Anjugramam

Submitted for the Project Phase – II Viva – Voce Examination held

on 16/08/2024



Internal Examiner
Examiner



External

**THE COST CONTROL AND PROJECT
PROFITABILITY OF AIRPORT BUILDING
CONSTRUCTION**

PHASE - II REPORT

Submitted by

BIRUNTHA M

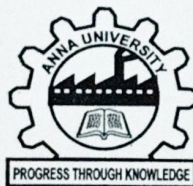
In partial fulfillment for the award of the degree

of

MASTER OF ENGINEERING

IN

CONSTRUCTION ENGINEERING AND MANAGEMENT



ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ANNA UNIVERSITY: CHENNAI 600 025

AUGUST 2024

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this Report titled “THE COST CONTROL AND PROJECT PROFITABILITY OF AIRPORT BUILDING CONSTRUCTION” is the bonafide work of “BIRUNTHA M” (Reg. No.: 963322418007) who carried out the work under my supervision. Certified further that to the best of my knowledge, the work reported herein does not form part of any other thesis or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.


SIGNATURE

Dr. J. Sahaya Ruben, M.E., PhD.,

HEAD OF THE DEPARTMENT

Department of Civil Engineering
Rohini College of Engineering and
Technology
Palkulam

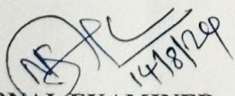

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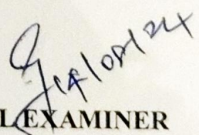
Prof. K. Ajan, M.E.,

ASSISTANT PROFESSOR

Department of Civil Engineering
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Palkulam

Submitted for the PROJECT PHASE-II viva – voce examination held on 14/08/2024


INTERNAL EXAMINER


EXTERNAL EXAMINER

**IDENTIFICATION OF CRITICAL RISKS FACTORS
FOR SUCCESSFUL PERFORMANCE OF HIGHWAY
CONSTRUCTION AT PARVATHIPURAM**

A THESIS

Submitted by

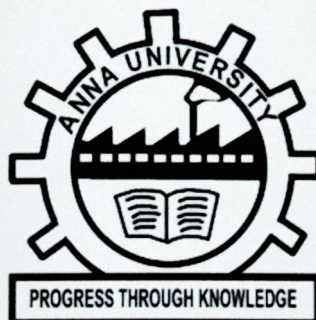
AISWARYA S

In partial fulfilment for the award of the degree of

MASTER OF ENGINEERING

IN

CONSTRUCTION ENGINEERING AND MANAGEMENT



ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

ANJUGRAMAM, KANNIYAKUMARI.

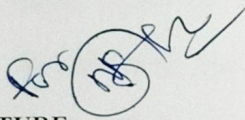
ANNA UNIVERSITY : CHENNAI 600 025

AUGUST 2024

ANNA UNIVERSITY: CHENNAI 600 025

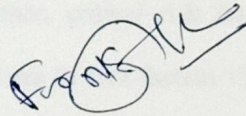
BONAFIDE CERTIFICATE

Certified that this project titled **"IDENTIFICATION OF CRITICAL RISKS FOR SUCCESSFUL PERFORMANCE OF HIGHWAY CONSTRUCTION AT PARVATHIPURAM"** is the bonafide work of **AISWARYA S (963322418001)** who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which degree or award was conferred on earlier occasion on this or any other candidate.



SIGNATURE

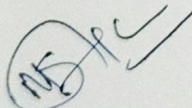
Dr. J. SAHAYA RUBEN, ME., PhD.,
HEAD OF THE DEPARTMENT,
DEPARTMENT OF CIVIL ENGINEERING,
ROHINI COLLEGE OF ENGINEERING
AND TECHNOLOGY, ANJUGRAMAM.



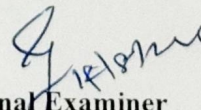
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Mrs. R. RENO INFANTO, ME.,
SUPERVISOR,
DEPARTMENT OF CIVIL ENGINEERING,
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AND TECHNOLOGY, ANJUGRAMAM.

Submitted for the University Vice-voce examination held at **ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY** on **14.12.2024**.



Internal Examiner



External Examiner

**THE FUTURE OF ARTIFICIAL INTELLIGENCE IN
THE CONSTRUCTION INDUSTRY: BUILDING
SMARTER, SAFER AND MORE SUSTAINABLE
PROJECTS**

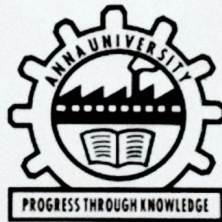
A THESIS

Submitted by

ASEELA THASMEEM. Y

in the partial fulfillment for the award of the degree of

**MASTER OF ENGINEERING IN CONSTRUCTION
ENGINEERING AND MANAGEMENT**



**ROHINI COLLEGE OF ENGINEERING
AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ANNA UNIVERSITY: CHENNAI 600 025**

AUGUST 2024

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that project report titled “**THE FUTURE OF ARTIFICIAL INTELLIGENCE IN THE CONSTRUCTION INDUSTRY: BUILDING SMARTER, SAFER AND MORE SUSTAINABLE PROJECTS**” is the bonafide work of **ASEELA THASMEEM. Y (963322418005)** who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


SIGNATURE

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

Department of Civil Engineering

Rohini college of Engineering

& Technology, Palkulam

Anjugramam – 629401.


SIGNATURE

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

Department of Civil Engineering

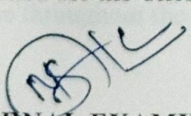
Rohini college of Engineering

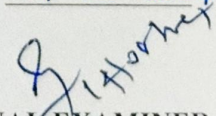
& Technology, Palkulam

Anjugramam – 629401.

Submitted for the Thesis viva -voice examination held on

14 - 08 - 2024


INTERNAL EXAMINER


EXTERNAL EXAMINER

**MANAGEMENT OF TIME AND COST
CONTINGENCIES IN CONSTRUCTION PROJECTS: A
CONTRACTOR PERSPECTIVE**

A THESIS

Submitted by

V.JAYALEKSHMI

in partial fulfilment for the award of the degree of

**MASTER OF ENGINEERING IN
CONSTRUCTION ENGINEERING AND MANAGEMENT**



ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

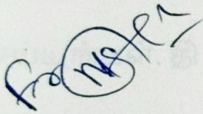
ANNA UNIVERSITY, CHENNAI: 600 025

AUGUST 2024

ANNA UNIVERSITY;CHENNAI 600 025

BONAFIDE CERTIFICATE

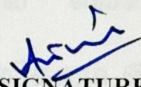
Certified that this thesis titled “MANAGEMENT OF TIME AND COST CONTINGENCIES : A CONTRACTOR PERSPECTIVE” is the bonafide work of **V. JAYALEKSHMI (Roll. No 963322418009)** who carried out the work under my Supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



SIGNATURE

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

HEAD OF THE DEPARTMENT
DEPARTMENT OF CIVIL ENGINEERING
ROHINI COLLEGE OF ENGINEERING
AND TECHNOLOGY, ANJUGRAMAM

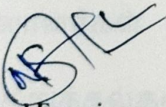


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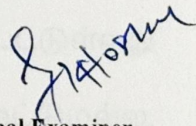
Prof.Mrs.ASWINI R.K,M.E

SUPERVISOR
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AND TECHNOLOGY, ANJUGRAMAM

Submitted for the University Vice-Voce examination held at **ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY** on. 14.10.8.2024



Internal Examiner



External Examiner

**ENHANCING LABOUR PRODUCTIVITY IN
HILLY TERRAIN**

A THESIS

Submitted by,

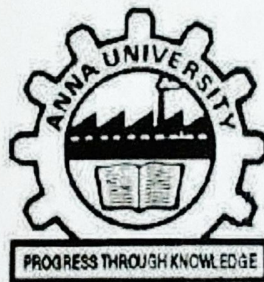
BALA THANGA INISH R.E

In partial fulfillment for the award of the degree of

MASTER OF ENGINEERING

in

CONSTRUCTION ENGINEERING AND MANAGEMENT



ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY,

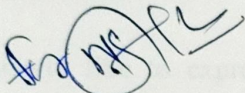
PALKULAM, KANNIYAKUMARI.

ANNA UNIVERSITY: CHENNAI 600 025

AUGUST 2024

BONAFIDE CERTIFICATE

Certified that this project report **“ENHANCING LABOUR PRODUCTIVITY IN HILLY TERRAIN”** is the bonafide work of **BALA THANGA INISH R.E.** (963322418006) who carried out the Project work under my supervision.

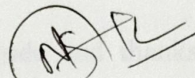


SIGNATURE

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

HEAD OF DEPARTMENT

Department of Civil Engineering
Rohini Collge of Engineering And
Technology, Anjugramam.



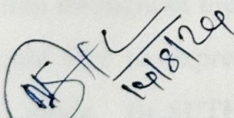
SIGNATURE

Dr.Suthan Kumar.N, M.E, Ph.D

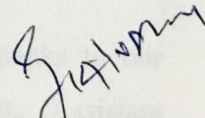
SUPERVISOR

Department of Civil Engineering
Rohini College of Engineering and
Technology, Anjugramam.

Submitted by viva voice examination held on 14-08-2024



INTERNAL EXAMINER



EXTERNAL EXAMINER

**SIMULATION STUDY ON ENVIRONMENTAL
IMPACT IN CONSTRUCTION WORK**

PHASE II REPORT

Submitted by

F. ANTONY KALWIN

*in partial fulfillment for the award of the
degree of*

MASTER OF ENGINEERING

IN

**CONSTRUCTION ENGINEERING AND
MANAGEMENT**



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

**DEPARTMENT OF CIVIL
ENGINEERING**

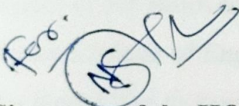
ANNA UNIVERSITY: CHENNAI 600025

AUGUST – 2024

ANNA UNIVERSITY: CHENNAI 600 025

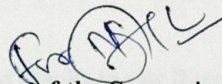
BONAFIDE CERTIFICATE

Certified that this Report titled "SIMULATION STUDY ON ENVIRONMENTAL IMPACT IN CONSTRUCTION WORK" is the bonafide work of F. ANTONY KALWIN (963322418004) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



Signature of the HOD

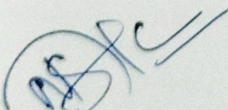
Dr.J.Sahaya Ruben, M.E.Ph.D.
Head of the Department
Department of Civil Engineering
Rohini College of Engineering & Tech,
Palkulam , Anjugramam- 629 401.



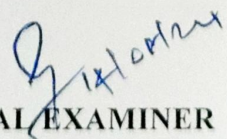
Signature of the Supervisor

Mrs. Reno Infanto R, M.E.,
Supervisor
Department of Civil Engineering
Rohini College of Engineering & Tech,
Palkulam, Anjugramam- 629 401.

Submitted for the Thesis viva-voice examination held on ..14..08.....2024



INTERNAL EXAMINER



EXTERNAL EXAMINER

STUDY ON GREEN TECHNOLOGY OF SOLAR ENERGY SYSTEM

A THESIS

Submitted by

A.ANTAL NIPRISHA

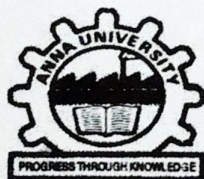
963322418003

in partial fulfillment for the award of the degree of

MASTER OF ENGINEERING

IN

CONSTRUCTION ENGINEERING AND MANAGEMENT



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

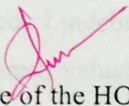
ANNA UNIVERSITY: CHENNAI 600 025

APRIL/MAY 2024

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report “**STUDY ON GREEN TECHNOLOGY OF SOLAR ENERGY SYSTEM**” is the bonafide work of **A.ANTAL NIPRISHA, REG NO-963322418003** who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



Signature of the HOD

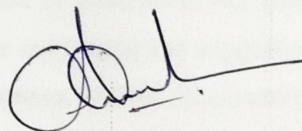
Dr.J.Sahaya Ruben, M.E, Ph.D.,

Head of the Department

Department of Civil Engineering

Rohini Colleges of Engineering &Tech

Palkulam-629401



Signature of the Supervisor

Mr. A.Ananth, M.E.,

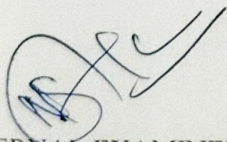
Supervisor

Department of Civil Engineering

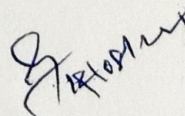
Rohini College of Engineering &Tech

Palkulam-629401

Submitted for the university Viva-voice examination held at Rohini College of Engineering and Technology on...14.08.2024



INTERNAL EXAMINER



EXTERNAL EXAMINER

**COMPRATIVE STUDY ON THE IMPACT OF
PREFABRICATION TECHNOLOGY OVER
CONVENTIONAL CONSTRUCTION**

PHASE -II REPORT

Submitted by

PRABHU G

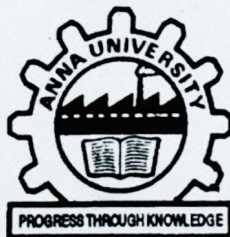
in the partial fulfilment for the award of the degree

of

MASTER OF ENGINEERING

IN

CONSTRUCTION ENGINEERING & MANAGEMENT



ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

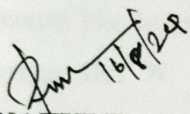
ANNA UNIVERSITY :CHENNAI 600 025

JUNE 2024

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIED CERTIFICATE

Certified that this project report “**COMPARATIVE STUDY ON THE IMPACT OF PREFABRICATION TECHNOLOGY OVER CONVENTIONAL CONSTRUCTION**” is the bonafide work of “**PRABHU G**”(963322418018) who carried out the project work under my supervision.

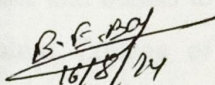


SIGNATURE

Dr.J.Sahaya Ruben, M.E,Ph.d.,

HEAD OF DEPARTMENT

Department of Civil Engineering
Rohini College of Engineering and
Technology, Palkulam.



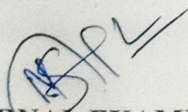
SIGNATURE

Mr.B.Easvara thayabalan, M.E.,

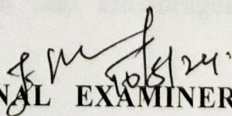
SUPERVISOR

Department of Civil Engineering
Rohini College of Engineering and
Technnology, Palkulam.

Submitted by viva voice examination held on 16/08/2024



INTERNAL EXAMINER



EXTERNAL EXAMINER

**PLANNING AND ANALYSIS OF GREEN BUILDINGS
IN CONSTRUCTION MANAGEMENT**

A THESIS

Submitted by

NEENU E

in partial fulfillment for the award of the degree of

**MASTER OF ENGINEERING
IN
CONSTRUCTION ENGINEERING & MANAGEMENT**



**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ANNA UNIVERSITY: CHENNAI 600 025
AUGUST 2024**

DECLARATION

I affirm that the project work entitled, " **PLANNING AND ANALYSIS OF GREEN BUILDINGS IN CONSTRUCTION MANAGEMENT** " being submitted in partial fulfillment for the award of Master of Engineering in Construction Engineering and Management is the original work carried out by me. It has not formed the part of any other project work submitted for award of any degree , either in this or any other university.

SIGNATURE

Dr.J.Sahaya Ruben, M.E,Ph.d.,

HEAD OF DEPARTMENT

Department of Civil Engineering
Rohini College of Engineering and
and Technology, Palkulam.

SIGNATURE

Dr.N.SUTHAN KUMAR, M.E, Ph.D

SUPERVISOR

Department of CiviEngineering
Rohini College of Engineering
Technnology, Palkulam.

Submitted by viva voice examination held on 14/08/24

INTERNAL EXAMINER

EXTERNAL EXAMINER

**COST AND EFFECT MANAGEMENT OF LANDFILL
LEACHATE USING LOW-COST FILTER MATERIALS**

A PROJECT REPORT (PHASE II)

Submitted by,

JAYA PRAKASH. J

In partial fulfillment for the award of the degree

Of

MASTER OF ENGINEERING

in

CONSTRUCTION ENGINEERING AND MANAGEMENT



**ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY,
PALKULAM.**

ANNA UNIVERSITY: CHENNAI 600 025

JULY 2024

BONAFIDE CERTIFICATE

Certified that this project report “ **COST AND EFFECT MANAGEMENT OF LANDFILL LEACHATE USING LOW COTS FILTER MATERIAL** ” is the bonafide work of **JAYA PRAKASH. J (963322418010)**, 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

College of Engineering & Tech.

Palkulam.

SIGNATURE

Mr.B. Easvara thayabalan, M.E.,

SUPERVISOR

Department of civil Engineering Rohini

Rohini College of Engineering & Tech.

Palkulam.

Submitted by viva voce examination held on --- 11/8/24

INTERNAL EXAMINER

EXTERNAL EXAMINER

EXPLORING WASTE TO MINIMISE WASTE IN CONSTRUCTION INDUSTRY

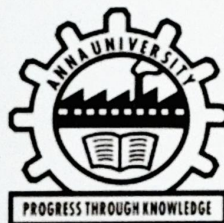
A THESIS

Submitted by

SOBIYA K

in the partial fulfillment for the award of the degree of

**MASTER OF ENGINEERING IN CONSTRUCTION
ENGINEERING AND MANAGEMENT**



**ROHINI COLLEGE OF ENGINEERING
AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ANNA UNIVERSITY: CHENNAI 600 025**

AUGUST 2024

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that project report titled “**EXPLORING WASTE TO MINIMISE WASTE IN CONSTRUCTION INDUSTRY**” is the bonafide work of **SOBIYA K (963322418021)** who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

SIGNATURE

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

HEAD OF THE DEPARTMENT

Department of Civil Engineering

Rohini college of Engineering

& Technology, Palkulam

Anjugramam – 629401.

SIGNATURE

Dr. M. Tamilselvi M.E, Ph.D.,

ASSISTANT PROFESSOR

Department of Civil Engineering

Rohini college of Engineering

& Technology, Palkulam

Anjugramam – 629401.

Submitted for the Thesis viva -voice examination held on 16/8/2024

INTERNAL EXAMINER

EXTERNAL EXAMINER

**A STUDY ON WASTE MANAGEMENT IN
CONSTRUCTION INDUSTRY**

A THESIS

Submitted by

R. RABEENA

in partial fulfillment for the award of the degree of

**MASTER OF ENGINEERING
IN
CONSTRUCTION ENGINEERING & MANAGEMENT**



ROHINI COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ANNA UNIVERSITY, CHENNAI

AUGUST 2024