

**A**  
**PROJECT REPORT**  
**ON**  
**“RETROFIT OF EXISTING MULTISTORYED BUILDING ”.**

Submitted in partial fulfillment of the requirements for the award of the  
**DEGREE IN CIVIL ENGINEER ING**

Conferred by  
**UNIVERSITY OF MUMBAI**

**SUBMITTED BY**

**Mr. AKASH SHELA VALE (30)**

**Mr. CHETAN MHATRE (19)**

**Mr. KETAN JADHAV (10)**

**Mr. ABHIJEET S. CHANDE (03)**

**GUIDED BY**

**Prof. PRAVIN THORAT**



**DEPARTMENT OF CIVIL ENGINEERING**

**ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH, MUMBAI UNIVERSITY (2022-23)**

**(DEGREEEN) AT MOHILI, POST AGHAI, DIST-THANE 2022-2023**

## CERTIFICATE

This is to certify that the Project Report titled “**RETROFIT OF EXISTING MULTISTORYED BUILDING**” is bonafide work of

**Mr. AKASH SHELAVALE (30)**

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Has been successfully completed in a satisfactory manner in a partial fulfilment of requirements for award of Degree in Civil Engineering conferred by the Maharashtra State Board of Technical Education.

**Prof. PRAVIN THORAT**  
(Project Guide)

**Prof. SAMRUDDHI SHELVALE**  
(HOD, Civil Engineering Degree)

**Dr. D.D. SHINDE**  
(Principal, VOGCE)



**A**  
**PROJECT REPORT**  
**ON**  
**“CONSTRUCTION OF RETAINING WALL USING SCRAP TYRES”.**

Submitted in partial fulfillment of the requirements for the award of the

**DEGREE IN CIVIL ENGINEERING**

Conferred by

**UNIVERSITY OF MUMBAI**

**SUBMITTED BY**

Mr. AMIT P. DAGALA (03)

Ms. SHUBHAM R. MENE (18)

Ms. MIHIR A. PATEL (22)

Ms. YASH M. SALVE (29)

**GUIDED BY**

**Prof. P. M. THORAT**



DEPARTMENT OF CIVIL ENGINEERING

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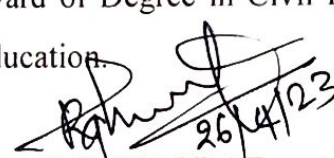
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(Project Guide)

  
Dr. D.D. SHINDE  
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Prof. S.S. SHELAVALE  
(HOD, Civil Engineering Degree)



**A**  
**PROJECT REPORT**  
**ON**  
**“UTILIZATION OF PLASTIC WASTE ON CONCRETE MIXES”.**

Submitted in partial fulfillment of the requirements for the award of the

**DEGREE IN CIVIL ENGINEERING**

Conferred by

**UNIVERSITY OF MUMBAI**

**SUBMITTED BY**

**Mr. PRAVIN B. DHAIRE (04)**

**Mr. PRAMEYA J. PANDIT (21)**

**Mr. AMAN A. KOTHARI (16)**

**Mr. TANMAY S. BAWDANE (01)**

**GUIDED BY**

**Prof. DATTA PATIL**



**DEPARTMENT OF CIVIL ENGINEERING**

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**(DEGREE) AT MOHILI, POST AGHAI, DIST-THANE 2022-2023**

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**DEPARTMENT OF CIVIL ENGINEERING**



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**Mr. PRAMEYA J. PANDIT (21)**

**Mr. AMAN A. KOTHARI (16)**

**Mr. TANMAY S. BAWDANE (01)**

Has been completed satisfactorily in partial fulfillment of requirements for the award of a Degree in Civil Engineering conferred by the Maharashtra State Board of Technical Education.

**Prof. DATTA PATIL**  
(Project Guide)

**Prof. SAMRUDDHI SHELVALE**  
(HOD, Civil Engineering Degree)

**Dr. D.D. SHINDE**  
(Principal, VOGCE)



A  
PROJECT REPORT  
ON  
“DETAIL STUDY OF OPTIMIZATION OF READYMIX CONCRETE”.

Submitted in partial fulfillment of the requirements for the award of the

**DEGREE IN CIVIL ENGINEERING**

Conferred by

**UNIVERSITY OF MUMBAI**



**SUBMITTED BY**

**Mr. BHARGAV DESAI**  
**Mr. HARSHAL. M. DINKAR**

**Mr. SAHIL. S. JADHAV**  
**Mr. ROSHAN. V. RAUT**

**UNDER THE GUIDANCE BY**

**Prof. SWATI SONAWANE**



**DEPARTMENT OF CIVIL ENGINEERING**  
**ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH, MUMBAI**  
**UNIVERSITY (2022-23)**

**JANGLI MAHARAJ ASHRAM TRUST'S  
VISHWATMAK OM GURUDEV COLLEGE OF ENGINEERING  
AT MOHILI, POST AGHAI, DIST-THANE  
DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the Project Report titled “DETAIL STUDY OF OPTIMIZATION OF READY MIX CONCRETE” is bonafide work of

**Mr. BHARGAV DESAI (05)**

**Mr. HARSHAL. M. DINKAR (07)**

**Mr. SAHIL. S. JADHAV (11)**

**Mr. ROSHAN. V. RAUT (28)**

Has been successfully completed in a satisfactory manner in a partial fulfilment of requirements for award of Degree in Civil Engineering conferred by the Maharashtra State Board of Technical Education.

**Prof. SWATI SONAWANE**  
(Project Guide)

**Dr. D.D. SHINDE**  
(Principal, VOGCE)



**Prof. SAMRUDDHI SHELVALE**  
(HOD, Civil Engineering Degree)



A  
PROJECT REPORT  
ON  
“DESIGN OF FLEXIBLE PAVEMENT BY STABILIZATION OF SOIL  
USING LIME AND FLY ASH”.

Submitted in partial fulfillment of the requirements for the award of the  
DEGREE IN CIVIL ENGINEERING

Conferred by  
UNIVERSITY OF MUMBAI



SUBMITTED BY

Mr. OMKAR B. DHAMKE  
Mr. SAMBHAJI N. MEGHA

Ms. SONAM N. JADHAV  
Ms. MANSI S. WARGHADE

UNDER THE GUIDANCE OF  
Prof. SAMRIDDHI SHELAVALE



DEPARTMENT OF CIVIL ENGINEERING

ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH, MUMBAI UNIVERSITY (2022-23)

(DEGREE) AT MOHILI, POST AGHAI, DIST-THANE 2022-2023

**JANGLI MAHARAJ ASHRAM TRUST'S**  
**VISHWATMAK OM GURUDEV COLLEGE OF ENGINEERING AT**  
**MOHILI, POST AGHAI, DIST-THANE.**  
**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the Project Report titled “**DESIGN OF FLEXIBLE PAVEMENT BY STABILIZATION OF SOIL USING LIME AND FLY ASH**” is bonafide work of

**Mr. OMKAR B. DHAMKE (06)**

**Mr. SAMHAJI N. MEGHA (17)**

**Ms. SONAM N. JADHAV (12)**

**Ms. MANSI S. WARGHADE (31)**

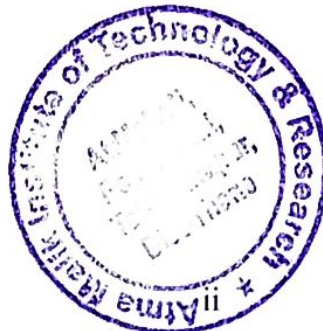
Has been successfully completed in a satisfactory manner in a partial fulfilment of requirements for award of Degree in Civil Engineering conferred by the Maharashtra State Board of Technical Education.

**Prof. SAMRIDDDHI SHELVALE**

(Project Guide)

**Dr. D.D. SHINDE**

(Principal, VOGCE)



**Prof. SAMRIDDDHI SHELVALE**

(HOD, Civil Engineering Degree)

**Prof. DATTA PATIL**

(Internal Examiner)

**A**  
**PROJECT REPORT**

**ON**

**“CONTROL ON SEEPAGE IN PURYE VILLAGE, SANGAMESHWAR  
TALUKA BY USING GEOMEMBRANE”.**

Submitted in partial fulfillment of the requirements for the award of the

**DEGREE IN CIVIL ENGINEERING**

Conferred by

**UNIVERSITY OF MUMBAI**

**SUBMITTED BY**

**Mr. DHIRAJ S. DUPARE (08)**

**Ms. RUTUJA K. JALEKAR (13)**

**Ms. SAYLI D. KALANTRE (15)**

**Ms. HEMANGI K. PATIL (23)**

**GUIDED BY**

**Prof. P. M. THORAT**

**Prof. D. D. PADAVE**



**DEPARTMENT OF CIVIL ENGINEERING**

**ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH, MUMBAI UNIVERSITY (2022-23)**

**(DEGREE) AT MOHILI, POST AGHAL, DIST-THANE 2022-2023**

ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH, MUMBAI UNIVERSITY (2022-23)

(DEGREE) AT MOHILI, POST AGHAL, DIST-THANE 2022-2023

DEPARTMENT OF CIVIL ENGINEERING



## CERTIFICATE

This is to certify that the Project Report titled “CONTROL ON SEEPAGE IN PURYE VILLAGE, SANGAMESHWAR TAULKA BY USING GEOMEMBRANE” is bonafide work of

Mr. DHIRAJ S. DUPARE (08)

Ms. RUTUJA K. JALEKAR (13)

Ms. SAYLI D. KALANTRE (15)

Ms. HEMANGI K. PATIL (23)

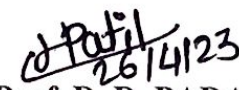
Has successfully completed in a satisfactory manner in a partial fulfilment of requirements for award of Degree in Civil Engineering conferred by the Maharashtra State Board of Technical Education.

  
Prof. P.M. THORAT  
(Project Guide)

  
Prof. S.S. SHELVALE

(HOD, Civil Engineering Degree)



  
Prof. D. D. PADAVE  
(Project Co. Guide)

  
Dr. D.D. SHINDE

(Principal, AMRIT)

PROJECT REPORT

ON

**DESIGN A FLEXIBLE PAVEMENT BY STABILIZING THE RED  
SOIL USING DEMOLISHED CONSTRUCTION WASTE**

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE  
AWARD OF THE

**BACHELOR'S DEGREE IN CIVIL  
ENGINEERING**

CONFERRED BY

UNIVERSITY OF

MUMBAI

SUBMITTED BY

SAHIL ZENDE (33)

PARTH KADAM (14)

AKASH GUNJAL (09)

SARVESH PATIL (27)

GUIDED BY

Prof. **SWATI SONAWNE**



**DEPARTMENT OF CIVIL ENGINEERING**

**Atma Malik Institute Of Technology & Research  
SAHAPUR , DIST-THANE**

**2022-2023**



## DEPARTMENT OF CIVIL ENGINEERING

### CERTIFICATE

This is to certify that the Project Report entitled “**Design a flexible pavement by stabilizing the red soil using demolished construction waste**” duly submitted by the following students:

SAHIL ZENDE (33)

PARTH KADAM (14)

AKASH GUNJAL (09)

SARVESH PATIL (27)

Has been successfully completed in a satisfactory manner as a part of first stage of the project in a partial fulfilment of requirements for award of **Bachelor’s Degree in Civil Engineering** conferred by the **University of Mumbai**.

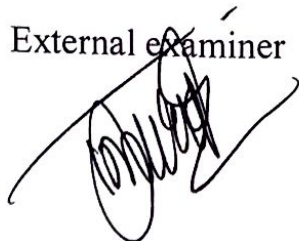
  
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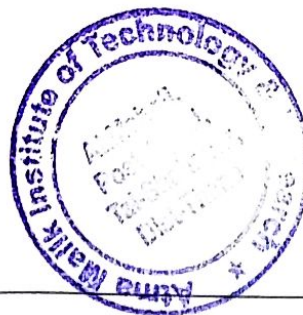
Project Guide  
**Prof. SWATI SONAWNE**



HOD, Civil Dept  
**Prof. SAMRUDDHI SHELAVLE**

External examiner





  
Principal

**Dr. D. D. Shinde**

A  
PROJECT REPORT  
ON  
PARTIALLY REPLACEMENT OF RUBBER CRUMB WITH FINE AGGREGATE

Submitting in partial fulfilment of the requirements for the  
degree of Bachelors of Engineering In

**CIVIL ENGINEERING**

Conferred by

**UNIVERSITY OF MUMBAI**



**SUBMITTED BY**

**MR.PREET MHATRE (20)**

**MR.KAUSTUBH PATIL (25)**

**MR.KALPESH PATIL (24)**

Under the guidance of

**Prof. DATTA PATIL**



**Department of Civil Engineering  
VISHWATMAK OM GURUDEV  
COLLEGE OF ENGINEERING  
MOHILI, POST :- AGHAI 2022 – 2023**

# CERTIFICATE



This is to certify that the project entitled " **PARTIALLY REPLACEMENT OF RUBBER CRUMB WITH FINE AGGREGATE**" is a bonafide work of the following students submitted to the University of Mumbai in partial fulfilment of the requirement for the award of the degree of "Bachelors of Engineering" in Civil Engineering.

Sr. No.	Name of Student	Roll No.
1	PREET MHATRE	20
2	KALPESH PATIL	24
3	KAUSTUBH PATIL	25

  
(PROF. DATFA PATIL)

Project Guide

  
(Prof. SAMRIDDHI SHELVALE)

HOD

  
(Dr. D. D. SHINDE)

Principal

DATE: - 09/05/2023





**A  
PROJECT REPORT**

**ON**

**‘UTILIZATION OF RECYLED CONCRETE AGGREGATE AS A BUILDING MATERIAL’**

Submitted in partial fulfillment of the requirement for the award of the

**DEGREE IN CIVIL ENGINEERING**

**CONFERRED BY**

**UNIVERSITY OF MUMBAI**

**SUBMITTED BY**

**Mr. MANDAR PATIL (26)**

**Mr. SHAILESH YADAV (32)**

**Mr. SAMEER KADAM**

**Ms . MAYURI PATIL**

**GUIDED BY**

**Prof. DATTA PATIL**



**DEPARTMENT OF CIVIL ENGINEERING**

**ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH, MUMBAI UNIVERSITY**

**(2022-23)**

**AT MOHILI, POST AGHAI, DIST-THANE 2022-2023**

ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH, MUMBAI  
UNIVERSITY (2022-23)

AT MOHILI, POST AGHAI, DIST-THANE 2022-2023



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( Project Guide)

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