

A  
PROJECT REPORT  
ON  
**DEVELOPMENT AND USAGE OF DUCTILE COMPOSITE  
MATERIAL FOR RETROFITTING AND STRENGTHENING  
OF MASONARY STRUCTURE**

Submitted in partial fulfillment of the requirement for the award of Degree  
OF  
BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING



**SUBMITTED BY-**

1. MOHIT YADAV (161020125037)
2. PRASHANT ( R 161020125038)
3. UPENDRA KUMAR 161020125042)
4. VINAY YADAV (161020125043)
5. SARVENDRA SINGH (161020125044)
6. AAKASH DUTTA (161020125050)

**SUBMITTED TO-**

**KAPIL PRABHAT VERMA**  
ASSISTANT PROFESSOR

**J.S. UNIVERSITY**  
5KMS. MILE STONE, MAINPURI ROAD SHIKOHABAD, FIROZABAD (U.P.)

(Session: 2019-2020)

**J.S. UNIVERSITY SHIKOHABAD, FIROZABAD**  
**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

**This is to certify that project entitled “DEVELOPMENT AND USAGE OF DUCTILE COMPOSITE MATERIAL FOR RETROFITTING AND STRENGTHENING OF MASONARY STRUCTURE” which is submitted by**

1. MOHIT YADAV (161020125037)
2. PRASHANT ( R 161020125038)
3. UPENDRA KUMAR 161020125042)
4. VINAY YADAV (161020125043)
5. SARVENDRA SINGH (161020125044)
6. AAKASH DUTTA (161020125050)

in partial fulfillment of the requirement for the award of degree **Bachelor of Technology** in department of civil engineering of **J.S. University, Shikohabad** is a record of the work carried out by him under my supervision. The matter embodied in thesis is original and has not been submitted for the award of any other degree or diploma.

**AMIT KUMAR YADAV**  
Assistant Professor & Head  
Department of Civil Engineering

**KAPIL PRABHAT VERMA**  
Supervisor  
Assistant Professor  
Department of Civil Engineering