


**K. S. R. M. COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**KADAPA – 516 003**

**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, “**DRONE IMAGE PROCESSING USING AGISOFT METASHAPE**”, done by **D. ADITYA SREERAM (209Y1A0118)**, **E. VENKATA KRISHNA REDDY (209Y1A0119)**, **K. SIVA SAI TILAK REDDY (209Y1A0123)**, **C. SUBHASH(209Y1A0113)**, and **K. GANESH (209Y1A0135)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**

P. Pavan Kumar, M.Tech.  
Asst. Professor

  
**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

  
**Signature of the Examiner**

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**CERTIFICATE**



This is to certify that the B.Tech. project work entitled, **“INFLUENCE OF SLAG CONTENT ON DURABILITY, MICROSTRUCTURAL PERFORMANCES IN FLYASH BASED GEOPOLYMER MORTAR EXPOSED TO MARINE WATER”**, done by **C. Sravani (209Y1A0115)**, **K. Vijay Kumar (209Y1A0127)**, **K. Harindranath (209Y1A0125)**, **K. Vishnu Vardhan (209Y1A0129)**, and **C. Sreenath (209Y1A0111)**. submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**  
G. Chenna kesava Reddy, M.Tech., (Ph.D.)  
Asst. Professor

**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, “**ADSORPTIVE REMOVAL OF CONGO RED FROM CAULERPA SPECIES**”, done by **G. Aravind (209Y1A0121)**, **M. Venkata Tharun (209Y1A0141)**, **K. Praveen Kumar Reddy (209Y1A0131)**, **C. S. Revanth Sai (209Y1A0114)**, and **G. Raju (209Y1A0120)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

*P. Kishore*

**Signature of the Supervisor**

Dr.P.Kishore Kumar Reddy, M.Tech.,Ph.D.  
Assoc. Professor

*N. Amaranatha*

**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**

*[Handwritten Signature]*



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This is to certify that the B.Tech. project work entitled, **“MECHANICAL AND DURABILITY PROPERTIES OF FLY ASH AND GGBS BASED GEOPOLYMER CONCRETE UNDER MARINE WATER EXPOSURE”**, done by **B. Bharath Simha Reddy (209Y1A0107)**, **B. Rahul Reddy (209Y1A0108)**, **B. Vishnu Vardhan Reddy (169Y1A0111)**, **K. Kesava (209Y1A0124)**, and **M. Narendra Naik (209Y1A0149)**. submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**  
G. Chenna Kesava Reddy, M.Tech., (Ph.D.)  
Asst. Professor

**Signature of Head of the Department**  
Dr. N. Anfananatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**



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This is to certify that the B.Tech. project work entitled, "**SUSTAINABLE GEOPOLYMER BASED BINDING AGENT FOR CRACK SEALING APPLICATIONS IN CONCRETE**", done by **A. KIRAN KUMAR (209Y1A0103), C. HARSHA VARDHAN (209Y1A0112), M. SAITEJA REDDY (209Y1A0144), B. SAI MAHENDRA REDDY (209Y1A0110), K. ESWAR SAI (209Y1A0128)**. submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

Dr. B. Sudheer Kumar Reddy M.Tech., Ph.D.  
Assoc. Professor

**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**IMPACT OF SUPER ABSORBENT POLYMER ON BINARY BLENDED FIBER CONCRETE**", done by **Avula Venkata Subbamma (209Y1A0104)**, **Meesala Subbarayudu (209Y1A0145)**, **Mangali Madhu Krishna (209Y1A0142)**, **Meesala Venkata Sai (209Y1A0146)** and **Bommanaboyina Sravan Kumar (209Y1A0109)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**  
Dr. K. Shaiksha Vali, M.Tech., Ph.D.  
Asst. Professor

**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**ANALYSIS AND DESIGN OF SEWAGE TREATMENT PLANT: A CASE STUDY ON KADAPA MUNICIPAL CORPORATION**", done by **B.GURU SUCHITRA (209Y1A0105), CHERASALA UDAY KIRAN (209Y1A0116), K.V.SAMPATH (209Y1A0133), D.AMARNATH (209Y1A0117), B. DINESH KUMAR (209Y1A0106)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

Dr.T.Kiran Kumar, M.Tech., Ph.D.  
Professor

**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**



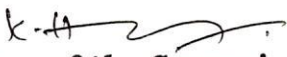
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KADAPA - 516 003**


**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**BEHAVIOUR OF CFRP WRAPPED CONCRETE UNDER UNIAXIAL LOADING CONDITIONS WITH VARYING DIFFERENT WRAPPING TECHNIQUES**", done by **Janagani Ganesh (209Y1A0122)**, **Madanapuri Abhilash (209Y1A0137)**, **Mothukuri Rahul (209Y1A0147)**, **Mothukuru Srinath (209Y1A0148)**, **Palavala Lokanath (209Y1A0158)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**  
K. Hemanth Kumar Reddy, M.Tech.,(Ph D)  
Asst. Professor

  
**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

  
**Signature of the Examiner**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, “**STUDY ON MECHANICAL AND DURABILITY PROPERTIES OF MULTI- COMPONENT BLENDED CONCRETE**”, done by **Kovuru Srivalli (209Y1A0136), Nerniki Valmeeki Sai Kiran (209Y1A0155), Maddur Suresh (209Y1A0138), Andluru Jyoshika (209Y1A0102) and Maddur Vishnu (209Y1A0139)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**

Y. Dasthagir, M.Tech.,(Ph.D),  
Asst. Professor

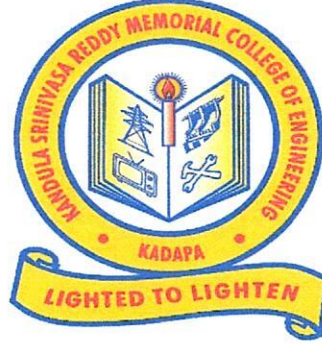
  
**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

  
**Signature of the Examiner**

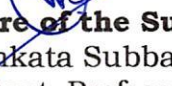
**K. S. R. M. COLLEGE OF ENGINEERING (AUTONOMOUS)  
KADAPA - 516 003**


**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**A STUDY ON STRENGTH PROPERTIES OF LIGHT WEIGHT CINDER AGGREGATE CONCRETE**", done by **Kancharla Sree Revathi (209Y1A0126)**, **Kora Pavan Kumar Reddy (209Y1A0134)**, **Manigala Reddy Sai (209Y1A0143)**, and **Pagadala Siva Sai Kumar (209Y1A0157)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**  
Smt. V. Venkata Subbamma, M.Tech.,  
Asst. Professor

  
**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

  
**Signature of the Examiner**  
2/5/20



**K. S. R. M. COLLEGE OF ENGINEERING (AUTONOMOUS)**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**EARTHQUAKE RESISTANT ANALYSIS AND DESIGN OF MULTISTOREY BUILDING**", done by **NAKKA DAMODAR (209Y1A0151), NANDYALA NAGA SIVA SAI(209Y1A0153), MALISETTY VAMSI KUMAR (209Y1A0140), KHATEEB SYED NOOR MOHAMMED (209Y1A0130), NADIVINTI SALEEM (209Y1A0150)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

*P. K. Reddy*  
**Signature of the Supervisor**

Dr. P. Kishore Kumar Reddy, M. Tech., Ph.D  
Assoc. Professor

*Al*  
**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

*[Signature]*  
**Signature of the Examiner**

**K. S. R. M. COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**KADAPA - 516 003**

**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**Improvement in Strength Properties of Black Cotton Soil by using Various Chemical Additives**", done by **Y.Anusha Lakshmi (209Y1A0194)**, **C.Nikileswara saikumar (219Y5A0112)**, **T.Siva kasi (209Y1A0186)**, **Syed khaleed(209y1A0183)** and **T.Ramesh(209Y1A0185)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**  
P.SureshPraveen Kumar, M.Tech. Ph.D.  
Asst. Professor

**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**

**K. S. R. M. COLLEGE OF ENGINEERING (AUTONOMOUS)**


**KADAPA – 516 003**

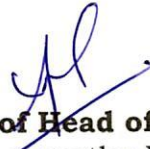
**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, “**EFFICACY OF GEOSYNTHETIC REINFORCEMENT IN SOILS PROXIMATE TO SINKHOLE-FOREMED AREAS IN THE KADAPA REGION: A COMPREHENSIVE STUDY**”, done by **U.POOJITHA (209Y1A0189), P.RAJATHI (209Y1A0164), Y.SAI PRANEETH VAMSI (209Y1A0195), U.SATISH KUMAR (209Y1A0188) and V.MOHAMMAD SHABBER (209Y10192)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**  
Dr. M.V. Ravi Kishore Reddy, M.Tech., Ph.D.  
Assoc. Professor

  
**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

  
**Signature of the Examiner**



**K. S. R. M. COLLEGE OF ENGINEERING (AUTONOMOUS)**

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**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**


This is to certify that the B.Tech. project work entitled, **“STRENGTHENING OF OVERLAYING FLEXIBLE ROAD PAVEMENT USING BENKELMAN BEAM DEFLECTION METHOD”**, done by **Banda Anitha (219Y5A0104)**, **Challa Naveen (219Y5A0111)**, **Bogala Bhargav Reddy (219Y5A0108)** and **Dampetla Mahesh (219Y5A0115)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**

D. Viswanath, M.Tech.,  
Asst. Professor

  
**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

  
**Signature of the Examiner**

**K. S. R. M. COLLEGE OF ENGINEERING (AUTONOMOUS)**

**KADAPA - 516 003**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“GEOTECHNICAL CHARACTERIZATION OF SOILS SURROUNDING SINKHOLE-FORMED AREAS IN KADAPA DISTRICT: AN IN DEPTH ANALYSIS”**, done by **Bhukya Suresh Naik (219Y5A0107)**, **Bollu Naresh (219Y5A0109)**, **Shaik Mohammed Mushtaq Ahamed (209Y1A0176)**, **Bommireddy Roopesh Reddy (219Y5A0110)**, and **Ramthu Vinay (209Y1A0168)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**  
Dr. M. V. Ravi Kishore Reddy, M.Tech., Ph.D.  
Assoc. Professor

**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**


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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“EXPERIMENTAL INVESTIGATION ON EXPANSIVE SOIL BY USING COIR FIBER”**, done by **Derangula Hemanth Kumar (219Y5A0116)**, **Enapati Guruteja (219Y5A0117)**, **Shaik Azeem (209Y1A0173)**, **Thanneeru Sampath (209Y1A0187)**, and **Shaik Rasool Basha (209Y1A0179)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**  
Smt. K. Niveditha, M.Tech.,  
Asst. Professor

  
**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

  
**Signature of the Examiner**




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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, “ **A STUDY ON MECHANICAL PROPERTIES OF SELF CURING CONCRETE**”, done by **Seelam Sravanti (209Y10170), Bandaru Anil Kumar (219Y5A0105), Puli Venkat Vinod Babu (209Y1A0167), Sulam Guru Gopal (209Y1A0182), and Paathakadapa Prasad (209Y1A0160)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**  
Smt. V. Venkata Subbamma, M.Tech.,  
Asst. Professor

  
**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

  
**Signature of the Examiner**

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**CERTIFICATE**


This is to certify that the B.Tech. project work entitled, "**LIGHT WEIGHT GEOPOLYMER BUILDING BLOCKS USING PET FLAKES AND FOAM**", done by **Bandaru Munivardhan (219Y5A0106)**, **Galipothula Samuel (219Y5A0118)**, **Syed Mohammed Zaheer Ahamed (209Y1A0184)** and **Shaik Muhammed Azharuddin (209Y1A0178)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**

Dr. B. Sudheer Kumar Reddy, M.Tech., Ph.D.  
Assoc. Professor

  
**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

  
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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“A STUDY ON MECHANICAL PROPERTIES OF POLYMER FIBER CONCRETE PAVEMENTS”**, done by **C. Narendra Reddy (219Y5A0114), A. Rajitha (219Y5A0101), C. Guru Prasad (219Y5A0113) and A. Ritwik Kumar (219Y5A0102)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

  
**Signature of the Supervisor**

Y. Dasthagir, M.Tech., Ph.D.  
Asst. Professor

  
**Signature of Head of the Department**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“USE OF PLASTIC WASTE ALONG WITH BITUMEN IN CONSTRUCTION OF FLEXIBLE PAVEMENTS”**, done by **Gandala Rajesh (219Y5A0119)**, **Armala Madhusudhan Reddy (219Y5A0103)**, **Shaik Mahammad Jabeer (209Y1A0175)**, **Shaik Abubakar (209Y1A0172)** and **Shaik Mohammed Rafi (209Y1A0177)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

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**Signature of Head of the Department**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, “ **EVALUATING THE BOND PERFORMACE OF CFRP WRAPPED CONCRETE UNDER HIGH ALKALINE AND HCL SOLUTION**”, done by **V. ANUSHA (209Y1A0191), S. VAMSI KRISHNA (209Y1A0171), S. MAHABOOB BASHA (209Y1A0174), R. GANGADHAR REDDY (209Y1A0169) and P. GURU MOHAN (209Y1A0161)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

K. Hemanth Kumar Reddy, M.Tech., (Ph.D)  
Asst. Professor

**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D  
Assoc. Professor & HEAD

**Signature of the Examiner**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“EXPERIMENTAL STUDY ON BLACK COTTON SOIL TREATED WITH XANTHANGUM POWDER”**, done by **Pattem Kalpana (209Y1A0162)**, **Pinjari Rajak Vali (209Y1A0165)**, **Pasala Malli Anjaneyulu (209Y1A0159)**, and **Pendlimarri Naveen Kumar (209Y1A0163)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**  
Smt. K. Niveditha., M.Tech.,  
Asst. Professor

**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**



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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“PERFORMANCE OF A FLOATING CONCRETE BY REPLACING COARSE AGGREGATE WITH THERMOCOL (EPS) BEADS”**, done by **Nare Malleswari Devi (219Y5A0149), Kethavaram Gangadhar (219Y5A0130), Madhavaram Sreedhar (219Y5A0139) and Ummadisetty Bhavani (219Y5A0172)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

Dr. V. Giridhar, M.Tech., Ph.D.  
Professor

**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**

**K. S. R. M. COLLEGE OF ENGINEERING (AUTONOMOUS)**

**KADAPA - 516 003**

**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“EFFECTIVENESS OF ADMIXTURES ON CHARACTERISTICS OF GYPSUM STABILIZED CLAY”**, done by **Poreddy Sunanda (219Y5A0156)**, **Rapura Nikitha (219Y5A0158)**, **Karamthod Sai Kumar Naik (219Y5A0128)**, **Manne Mallem Kondaiah (219Y5A0144)**, and **Godlaveeti Sreenivasulu (219Y5A0120)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

P.Suresh Praveen Kumar, M.Tech.,(Ph.D.)  
Asst. Professor

**Signature of Head of the Department**

Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Assoc. Professor & HEAD

**Signature of the Examiner**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“PERFORMANCE EVALUATION OF STRENGTH OF BITUMINOUS MIXES USING COIR FIBRE MODIFIED BITUMEN BINDER”**, done by **Kuruba Lavanya (219Y5A0135)**, **Kalingiri Rajesh (219Y5A0124)**, **Kallakinda Himasree (219Y5A0125)**, **Paletigandla Ravindra Babu (219Y5A0150)**, and **Madhallapalle Vishnu Vardhan (219Y5A0138)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

Dr. G. Sreenivasa Reddy, M.E, M.I.E, Ph.D.  
Professor

**Signature of Head of the Department**

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Assoc. Professor & HEAD

**Signature of the Examiner**



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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**INFLUENCE OF SUPER ABSORBENT POLYMER ON TERNARY BLENDED FIBRE CONCRETE**", done by **Mallu Teja (219Y5A0143)**, **Shaik Nasar (219Y5A0166)**, **Nallabothula Shiva Kishor (219Y5A0147)**, **Shaik Mohammed Zuber (219Y5A0165)**, and **Guthi Neelakanta Rayudu (219Y5A0147)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K.S.R.M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**  
Dr. K. Shaiksha Vali, M.Tech., Ph.D  
Assistant Professor

**Signature of Head of the Department**  
Dr. N. Amaranatha Reddy, M.Tech., Ph.D.  
Associate Professor & HEAD

**Signature of the Examiner**

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, “ **ANALYSIS OF FRAMES BY USING PYTHON PROGRAMMING**”, done by **Kore Sasirekha (219Y5A0132), Kanthuri Hema (219Y5A0127), Shaik Mahenoor (219Y5A0164) and Muthuru Kiran Kumar Reddy (219Y5A0146) Mala Maddileti (219Y5A0140)**, submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

Dr. I. Srinivasula Reddy, M.Tech., Ph.D.  
Assoc. Professor

**Signature of Head of the Department**

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Assoc. Professor & HEAD

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“DEVELOPMENT OF PYTHON-BASED CONCRETE MIX DESIGN APP”**, done by **Pasupuleti Sai Charan (219Y5A0152)**, **Kattameedi Bharath Reddy (219Y5A0129)**, **Sandrapalli Venkata Sumalatha (219Y5A0161)**, **Kuruva Bangaru Veeresh (219Y5A0136)**, and **Lodi Naveen (219Y5A0137)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, **“EXPERIMENTAL STUDY ON SELF HEALING CONCRETE UNDER COMPRESSION”**, done by **Malishetty Guru Lakshmi (219Y5A0142)**, **Kunchapu Subhash (219Y5A0134)**, **Telike Yesheshwani (219Y5A0169)**, **Shaik Afzal Ahammed (219Y5A0162)** and **Thummalur Surendra Kumar Reddy (219Y5A0171)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

Dr. V. Giridhar, M. Tech., Ph.D.  
Professor

**Signature of Head of the Department**

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Assoc. Professor & HEAD

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**ANALYSIS AND DESIGN OF SLOPES BY USING GEOSTUDIO SOFTWARE**", done by **Pathan Rahamathullah Khan (219Y5A0153), Jaripiti Vasu (219Y5A0123), Pinjari Lalappa (219Y5A0155), Patte Jagan Mohan (219Y5A0154), and Gogula Avinash (219Y5A0121)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**COMPUTATIONAL ANALYSIS OF INDETERMINATE STRUCTURES**", done by **Mekala Chennakeshavulu (219Y5A0145)**, **Palla Yogendra (219Y5A0151)**, **Kamireddy Jaipal Reddy (219Y5A0126)**, **Thaticherla Hemanth Kumar (219Y5A0170)** and **Talari Balaram (219Y5A0168)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

**Signature of the Supervisor**

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Assoc. Professor

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, "**COMBINED EFFECT OF SUPER PLASTISIZER AND MINERAL ADMIXTURE ON STRENGTH AND DURABILITY CHARACTERSTIC OF CONCRTE**", done by **Koppu Sree Kavya (219Y5A0131), Kummari Dastagiri (219Y5A0133), Shaik Thakkalla Yunus (219Y5A0167), Ramireddy Pavan Kumar Reddy (219Y5A0157), and Yerramagari Vignesh Kumar (219Y5A0174)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

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**CERTIFICATE**

This is to certify that the B.Tech. project work entitled, “**STUDY ON MECHANICAL PROPERTIES OF FLYASH BASED GEOPOLYMER CONCRETE BY USING RED MUD**”, done by **Nannuru Shankar (219Y5A0148)**, **Shaik Mahaboob Bee (219Y5A0163)**, **Mala Madhu (219Y5a0141)**, **Ratala Chandra Sekhar (219Y5A0159)** and **Yalapati Ranjith Kumar (219Y5A0173)** submitted to the Department of Civil Engineering, in partial fulfillment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from K. S. R. M. College of Engineering (Autonomous), Kadapa.

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