

Gokaraju Rangaraju Institute of Engineering and Technology

Department of Civil Engineering

Summary of Research Projects

S.No.	Title of the R&D Project or Research Grant	Sanctioning Agency, and Date of Sanction	Names of the Principal and Co- Investigators	Total Sanctioned Amount Rs.	Status of the Project (Completed/Ongoing)
1.	Characterization And Performance Evaluation Of Ultra-High Strength Steel Fibre Reinforced Reactive Powder Concrete For Structural Applications	NCC Ltd	Dr. V Srinivasa Reddy Dr K Satyanarayana	7,50,000	Ongoing 5 yr (2019-2024)
2.	Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program	DST	Dr J Praveen and Dr V Mallikarjuna Reddy	99,00,000	Ongoing 5 yr (2018-2023)
3.	Modernization & Removal Of Obsolescence	AICTE	Dr. GVV Satyanarayana	9,08,010	Completed 1 yr (2019-2020)
4.	Microbially Induced Calcite Precipitation for Crack Remediation in Concrete Structures	JNTUH TEQIP III	Dr. V Srinivasa Reddy	2,99,000	Completed 1 yr (2019-2020)
5.	Rehabilitation of Concrete with Bacteria (Bacterial Concrete)	Pachayat Raj, Kandukur, Andhra Pradesh	Dr. V Srinivasa Reddy	2,00,000	Completed 2 yr (2017-2019)
6.	Studies on the properties of nano-silica based self-compacting concrete	LANCO Technology Park	Dr. V Srinivasa Reddy	1,00,000	Completed 2 yr (2017-2019)

Total Received funds= Rs. 1,21,57,010/-



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Title of the Project : Modernization & Removal of Obsolescence

Funding Agency : AICTE

Project Coordinator : Dr. GVV Satyanarayana

Amount Sanctioned : Rs.9.65 lakhs Project Status : Completed

Duration : 1 yr. (2019-2020)

Outcome of the Project:

1. Identification of spore-forming alkaliphilic calcite precipitating bacteria which has high urease activity and high carbonate forming capacity in concrete structures.

- 2. Development of a process/technology for formation of bacterial concrete which can regain strength after remediation of cracks in concrete based on MICP mechanism and is also highly impermeable.
- 3. Publications in reputed journals
- 4. A Patent
- 5. Consultancy



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Title of the Project : Microbially Induced Calcite Precipitation for Crack Remediation in Concrete

Structures

Funding Agency : JNTUH TEQIP III Principal Investigator : Dr. V Srinivasa Reddy

Amount Sanctioned : Rs. 2.99 lakhs

Project Status : Completed 1 yr. (2019-2020)



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Title of the Project : Rehabilitation of Concrete with Bacteria (Bacterial Concrete)

Funding Agency : Pachayat Raj, Kandukur, Andhra Pradesh

Principal Investigator: Dr. V Srinivasa Reddy

Amount Sanctioned : Rs. 2.00 lakhs

Project Status : Completed 2 yr. (2017-2019)



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Title of the Project : Studies on the properties of nano-silica based self-compacting concrete

Funding Agency : LANCO Technology Park Principal Investigator : Dr. V Srinivasa Reddy

Amount Sanctioned : Rs.1.00 lakhs

Project Status : Completed 2 yr. (2017-2019)