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Department of Civil Engineering

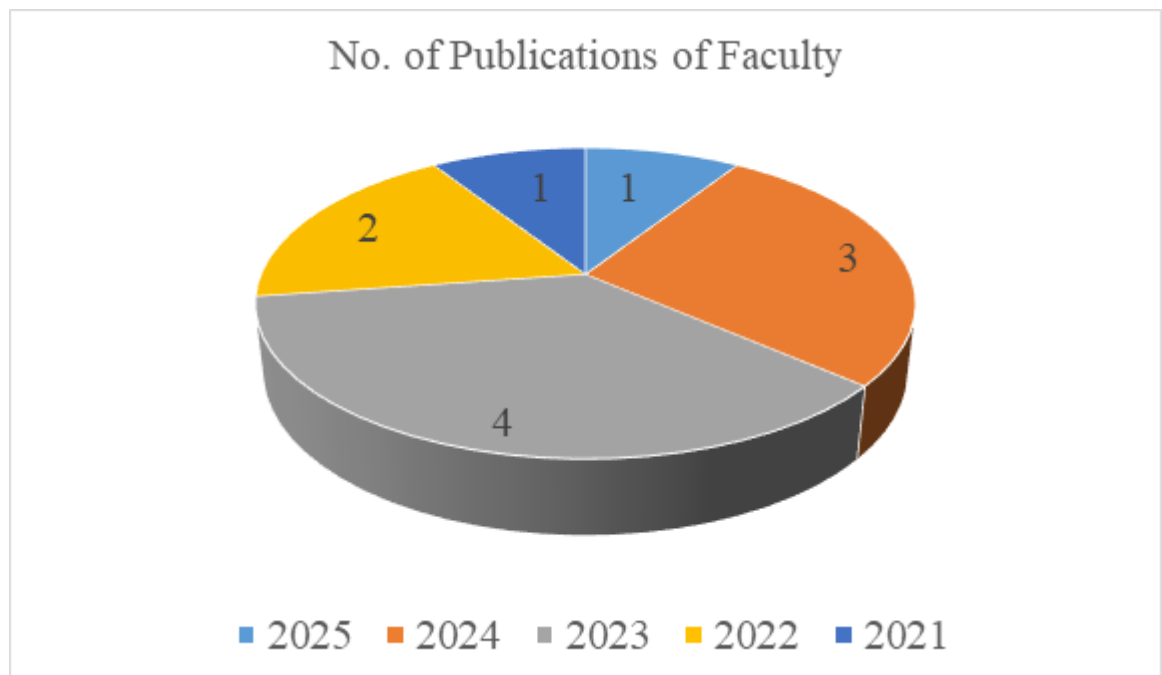
Publication

S. No.	Faculty	Title	Journal	year
1.	Dr. Rewa Bochare Prof. Kamlesh Dhone Dr. Raksha Parolkar	Green Roads Revolution: Innovating Rubber and Bitumen Production for Sustainable and Durable Infrastructure	International Journal of Pavement	2025
2.	Dr. Rewa Bochare	Optimization of urease amount for calcite precipitation in indian desert sand using biologically inspired method.	Indian Geotechnical Journal	2024
3.	Dr. Rewa Bochare	Rock-like strength enhancement of Indian desert sand using commercially available polysaccharide biopolymers	Soil Use and Management,	2024
4.	Dr. Monika Dagliya	Large scale study on influence of biopolymer to mitigate wind induced sand erosion with durability analysis	Soil and Tillage Research	2024
5.	Dr. Monika Dagliya	Biopolymer based stabilization of Indian desert soil against wind induced erosion	Acta Geophysica,	Sept 23
6.	Dr. Monika Dagliya	Optimization of growth medium for microbially induced calcium carbonate precipitation (MICP) treatment of desert sand.	Journal of Arid Land	Jun-23
7.	Dr. Monika Dagliya	Experimental study on optimization of cementation solution for wind erosion resistance using MICP method.	Smart Construction and Sustainable Cities	Feb-23
8.	Dr. Monika Dagliya	Desert sand stabilization using biopolymers	Smart Construction and Sustainable Cities	2023
9.	Prof. Rewa Bochare	Regional recalibration of reservoir storage and yield models for India – A case study	Arabian Journal of Geosciences	Jul-22

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10.	Dr. Monika Dagliya	Experimental study on mitigating wind erosion of calcareous desert sand spray method for microbially induced calcium carbonate precipitation	Journal of Rock Mechanics	2022
11.	Prof. Rewa Bochare	Yield Assessment of reservoirs for ungauged catchments using rainfall data.	Arabian Journal of Geosciences	2021



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View Revision Edit Revision Approve Revision Decline to Revise View Reference Checking Results Send E-mail	CONBUILDMAT-D-25-03998R1	Dynamic Duo: Understanding the Interplay Between Fatigue and Freeze-Thaw in Concrete Durability	May 15 2025 2:17:22:850AM	May 13 2025 11:59:59:000PM	May 21 2025 11:35:35:940AM	Revision Needs Approval

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Green Roads Revolution: Innovating Rubber and Bitumen Production for Sustainable and Durable Infrastructure

Technical Note | Published: 13 February 2025
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Original Paper | Published: 30 January 2024

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RESEARCH PAPER

Rock-like strength enhancement of Indian desert sand using commercially available polysaccharide biopolymers

Monika Dagliya, Neelima Satyam, Ankit Garg

First published: 18 September 2023 | <https://doi.org/10.1111/sum.12970> | Citations: 4

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Research Article – Hydrology | Published: 07 September 2022

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Experimental Study on Optimization of Cementation Solution for Wind-Erosion Resistance Using the MICP Method

by Monika Dagliya¹, Neelima Satyam^{1,*} and Ankit Garg^{2,*}

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Sustainability 2022, 14(3), 1770; <https://doi.org/10.3390/su14031770>

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Published: 3 February 2022

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Review | Open access | Published: 09 August 2023

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Original Paper | Published: 30 March 2022

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Outline

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- 1. Introduction
- 2. Materials and methods
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- 4. Conclusions
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Journal of Rock Mechanics and Geotechnical Engineering
Volume 14, Issue 5, October 2022, Pages 1556–1567

Full Length Article

Experimental study on mitigating wind erosion of calcareous desert sand using spray method for microbially induced calcium carbonate precipitation

Monika Dagliya^a, Neelima Satyam^a, Meghna Sharma^a, Ankit Garg^{b,c}

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Patent

S.No.	Faculty	Title	Application no.	Year of publication
1.	Dr. Raksha Parolkar	Flexural Behaviour of Geopolymer concrete under cyclic loading and fatigue loading	202021038453	21/10/2021
2.	1.Prof. Neelima Satyam 2. Ms. Monika Dagliya 3.Dr. Nitin Tiwari	PORTABLE INTEGRATED STAND FOR CONSTANT AND FALLING HEAD PERMEABILITY APPARATUS	393005-001	06/11/2023
3.	1. Er. Monika Dagliya 2. Dr. Rewa Bochare 3. Er. Aditya Agrawal 4.Er. Sadhna Tiwari 5. Er. Anshul Shrivastava 6.Er. Neha Sharma	EXPERIMENTAL INVESTIGATIONS ON ULTRA HIGH STRENGTH CONCRETE FOR SUSTAINABLE CONSTRUCTION INDUSTRY	01/09/2023	401937-001
4.	1 . Yarlagadda Suma 2 . Dr. Pratibha Mahesh 3 . Yogesh Ravindra 4 . Dr. Rewa Bochare 5 . Dr. Heleena Sengupta 6 . Swapnil Balkrishna 7 . Dr. Venkata Rambabu 8 . G. Alekhya 9 . Dr. T. Subbulakshmi	EXPERIMENTAL INVESTIGATIONS ON ULTRA HIGH STRENGTH CONCRETE FOR SUSTAINABLE CONSTRUCTION INDUSTRY	22/09/2023	202341035336
5.	Dr. Manojkumar Deshpande 2. Dr. Dipali Sarvate 3. Dr. Raksha Parolkar 4. Dr. Preeti Gupta 5. Aditya Agrawal 6. Mr. Anshul Shrivastava 7. Dr. Nikita Ramchandra	System and Method for Autonomous Drone Tracking Utilizing MATLAB Simulink Framework	30/08/2024	202421062372

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Revenue Grant

S. no.	Events	Type	Convener	Date	Grant in Rs.
1.	Laboratory Instructions for Testing of Soil and Construction Materials	Workshop	Dr. Raksha Parolkar	8-10 January 2020	50,000/-
2.	Smart Grid, Internet of Things, and Green Energy Building	refresher Program	Dr. Raksha Parolkar	16-22 March 2021	900000/-
3.	Conversions of Smart Technology	International Conference	Dr. Raksha Parolkar		300000/-
4.	Ministry of Housing and Urban Affairs	Internship by Government	Dr. Raksha Parolkar	1 st July 2022 to 5 th August 2022	200000/-

Research Grant

S. No.	Faculty	Title	Scheme	Grant
1.	Dr. Monika Dagliya	Use of Waste Plastic in Bitumen Road	RGPV TEQIP-III	300000/-
2.	Prof. Kamlesh Dhone	Study of floating concrete	RGPV TEQIP-III	300000/-