

Day - 1, Technical Session - 1 (18-12-2025; 14:30 - 16:10), Venue: T1-A

(Theme - Foundations: Shallow and Deep)

Time	Paper ID	Paper Title	Authors
14:30 - 14:50	Theme Lecture 1	Seismic Response of Geocell Reinforced Slopes	Dr. Arindam Dey
14:50 - 15:00	29	The Effect of Skirt Inclination on the Behaviour of Skirted Foundation Resting on Layered Granular Soil Medium	Shovan Bisai Dr. Rana Acharyya Dr. Arindam Dey
15:00 - 15:10	193	Numerical Analysis for Axial Capacity of Inclined Piles	Himanshu Saurav Prof. Sumeet Kumar Sinha
15:10 - 15:20	298	Thermo-Mechanical Performance Analysis of Energy Pile in the Vijayawada city of Andhra Pradesh	Sai Venkata Bharath Puppala Prof Hari Krishna Padavala
15:20 - 15:30	647	Comparison of Seismic Performance of 5 MW Offshore Wind Turbine with Jacket and Monopile Foundation	Kingshuk Jana Abhinav Bharat Dr. Rajib Sarkar Prof. Subhamoy Bhattacharya
15:30 - 15:40	738	Individual Response of Underreamed Pile Under Combined Uplift and Lateral Loading in Clay	S Twinkle Aswathy P S Dr Sudheesh T K
15:40 - 15:50	852	V-M Capacity Envelopes of Strip Footing on Sand Overlying Soft Rock	Shubham Kumar Kumawat Dr. Dhiraj Raj Dr. Sanyam Dangayach
15:50 - 16:00	880	Assessment of Load-Sharing Behaviour of Combined Pile-Raft Foundations	Aman Garg Vishwas Sawant Miss Shweta Singh
16:00 - 16:10	424	Bearing Capacity of Skirted Foundation on Cohesionless Soil for Inclined and Eccentric Loading	Aditya Roy Dr. Paramita Bhattacharya

Day - 1, Technical Session - 1 (18-12-2025; 14:30 - 16:10), Venue: T1-B

(Theme - Earth Retaining Structures, Slope Stability & Landslides)

Time	Paper ID	Paper Title	Authors
14:30 - 14:50	Theme Lecture 2	Geotechnical Investigation and Foundation Analysis for 42-storeyed towers in Gurugram (Haryana), India	Mr. Ravi Sundaram
14:50 - 15:00	65	Determination of Active Pressure Coefficients by Seismic Stability Analysis of Retaining Wall	Siddalingeshwara DH Dr Kaustav Chatterjee
15:00 - 15:10	610	Investigation of Stability of Road-side Slope in Mandi, Himachal Pradesh: A Case Study	Kritika Siya Walia Dr. Ashutosh Kumar
15:10 - 15:20	191	Hill Slope Investigation, Analysis and Cut Stabilization Measures - Case Study of Road Project in Uganda, East Africa	Mr. Avik Kumar Mandal Sailesh S Pradyot Biswas
15:20 - 15:30	614	Carbon emissions in Reinforced Earth walls: A Holistic Approach	Dr Apoorva Agarwal Soumisree Chowdhury Dr Deepak Manjunath

15:30 - 15:40	378	Preliminary Rockfall Hazard Mapping Along the Sana Village - Krole Bridge in Ramban Stretch of NH-44, Jammu & Kashmir	Humara Iqbal Shreya Maheshwari Dr. Riya Bhowmik Dr. Prasun Halder
15:40 - 15:50	580	An Investigation on the Efficacy of Micropiles in Enhancement of Stability of Embankment Slope under Rapid Drawdown Conditions	Sumit Kumar Abhijit Anand Dr. Rajib Sarkar Dr Lohitkumar Nainegali
15:50 - 16:00	724	Comprehensive Approach to Landslide Hazard Assessment for Highway Slope by Integrating Geospatial and Field Investigations	Sacchidananda Kushwaha Mr Aravind K Suresh Dr. Naveen James
16:00 - 16:10	632	Landslide Simulations of the Idukki Hill Region Soil Profiles in Kerala	Dr Kodi Rangaswamy

Day - 1, Technical Session - 1 (18-12-2025; 14:30 - 16:10), Venue: T1-C
(Theme - Soil Dynamics and Soil Structure Interaction)

Time	Paper ID	Paper Title	Authors
14:30 - 14:50	Theme Lecture 3	Skirted Footings: An Innovative Foundation System for Enhanced Load-Carrying Capacity	Prof. Ravi Jakka
14:50 - 15:00	27	Seismic Behavior of Buried Pipelines in Sandy Soil	Vipul Satpute Dr. Chaidul Haque Chaudhuri
15:00 - 15:10	175	Effect of Layer and Footing Positions on The Seismic Interference Between a New and an Existing Asymmetric Strip Footing in Two-Layered Sand	Dr. Mantu Majumder Shiv Gupta Saksham Sangal Nitin Yadav Vanramawia Khawlhring
15:10 - 15:20	516	Effect of Foundation Flexibility of Concrete Gravity Dam under Sequential Ground Motion	Dr. Ashna K N Prof. Priti Maheshwari
15:20 - 15:30	518	Active Isolation Using Single Trench Infilled with Agricultural Waste	Saurav Kumar Pranav Badal Dr. Pradipta Chakraborty
15:30 - 15:40	606	Seismic Performance of Oil-Storage Tanks resting on Layered Soil Profile	Sakshi Kumar Dr. Rajib Sarkar Dr. Tanish Dey
15:40 - 15:50	684	Numerical Investigation of Static Liquefaction in Tailings Dams Using the NorSand Soil Model	Chetan Kumar Dr. Prasanna Rousseau Dr. Jaya Dhanya Sparsha Nagula
15:50 - 16:00	109	Analysis of the nonlinear shear response of dry sand using a laminar shear box under harmonic loading	Himanshu Jangir Anirban Mandal Srinivasan V
16:00 - 16:10	608	A Probabilistic-based Liquefaction Susceptibility Assessment of Mayapur- Nabadwip area, Nadia District, West Bengal	Abhipriya Halder Kaustav Das Subhankar Karmakar Prof Kaushik Bandyopadhyay Prof Sibapriya Mukherjee

Day - 1, Technical Session - 1 (18-12-2025; 14:30 - 16:10), Venue: T1-D
(Theme - Uncertainties, Risk and Reliability in Geotechnical Engineering)

Time	Paper ID	Paper Title	Authors
14:30 - 14:50	Theme Lecture 4	Liquefaction behaviour and soil water characteristics for pond ash	Dr. S K Singh



14:50 - 15:00	8	A Novel 1D-CNN Surrogate Model for Liquefaction Potential Assessment with Reliability Analysis	Mr. Kumar Harsh, Dr. Kumar Shubham, Dr. A Kumar Sinha
15:00 - 15:10	13	Effect of Rice Husk Ash on Mechanical Properties of Black Cotton Soil: Reliability-Based Approach	Mr. Ankur Abhishek Dr. Anasua Guharay
15:10 - 15:20	178	Seismic Moment Magnitude Scales- A Critical Review	Suraj Patel, Dr. Ranjit Das, Dr. Meghna Sharma
15:20 - 15:30	284	Stress-Strain and Volume Change Behaviour of Coal Ash under Fully Dry and Saturated Conditions	Mrs Preetynanda Nanda, Dr Satyajit Nanda, Ms Banajyotsna Parida Dr. Rana Chatteraj
15:30 - 15:40	573	Probabilistic Liquefaction Potential Analysis of Saturated Poorly Graded Fine Sand Using Standard Penetration Test Data of Bahraich District, Uttar Pradesh, India	Mr. Md Naseem Ahamad Miss Neelu Patel Dr. Vishwajeet Pratap Singh Mr. Nitin Kumar Maurya
15:40 - 15:50	575	Review of Shear Wave Velocity Techniques in Seismic Site Characterization	Mr. Nitin Kumar Maurya Mr. Md Naseem Ahamad, Miss Neelu Patel Dr. Vishwajeet Pratap Singh
15:50 - 16:00	690	Optimization of Electrical Grounding System Performance Using Black Cotton Soil as a Grounding Material	Dr. Unnam Anil, Dr. H S Prasanna, Nesara C P, Niveditha K, Puneeth N S
16:00 - 16:10	232	Seismic Response of Monopile-Supported Offshore Wind Turbines in Soft Clay	Nabanita Saha, Anamika Majumder, DR Diptesh Chanda, Prof. (Dr.) Rajib Saha

Day - 1, Technical Session - 1 (18-12-2025; 14:30 - 16:10), Venue: T1-E

(Theme - Ground Improvement Techniques & Geosynthetics)

Time	Paper ID	Paper Title	Authors
14:30 - 14:50	Theme Lecture 5	Site Investigations and Explorations	Prof. C H Solanki
14:50 - 15:00	589	Effect of Geopolymerization on Geotechnical Properties of Marine Soil	Mrs Aleena Tom Dr Kodi Rangaswamy
15:00 - 15:10	326	Geotechnical Enhancement of Black Cotton Soil through Stone Column Inclusion	Dr. Srijan Srijan Kevin Somra
15:10 - 15:20	845	Geocell-Reinforced Working Platforms: A Cost-Efficient Solution for Soft Clay Sites	Abhitendra Sarvesh Prof Sumeet Kumar Sinha Prof Ramanathan Ayothiraman
15:20 - 15:30	824	Performance of Ordinary and Encased Granular Piles under Isolated Loading in Layered Soils	Mr Shaid Yousuf Dr. Narendra Kumar Samadhiya
15:30 - 15:40	646	Evaluation of Compressive Strength in Copper Slag-Based Hybrid Geopolymer Stabilized Sandy Soil	Ritesh Das Dr. Avinash Kumar Singh
15:40 - 15:50	529	Effect of Discrete Polypropylene Fibers on Strength Behavior of Black Cotton Soil	Anuj Bind Amit Kumar Naveen Sharma
15:50 - 16:00	47	Stabilisation of Clayey Soil with Rice Husk Ash and Aluminium Oxide as Binders in Geopolymerization	Ms Keerthana T V Ms Anjana Bhasi

16:00 - 16:10	49	Numerical Analysis of Deformation Behavior Induced by Embankment Widening on Soft Soil Deposits	Mr. Yogesh Ola Dr. Baleshwar Singh
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Day - 1, Technical Session - 1 (18-12-2025; 14:30 - 16:10), Venue: T1-F
(Theme - Transportation Geotechnics)

Time	Paper ID	Paper Title	Authors
14:30 - 14:50	Theme Lecture 6	Advanced Predictive Modelling Techniques for Railway Tracks in Critical Zones, Tunnels and High-Speed Rail Corridors	Dr. Sanjay Nimbalkar
14:50 - 15:00	811	Performance Evaluation of a Rural Road Under PMGSY Constructed Using Eco-Friendly Jute Geotextile for Strengthening Weak Subgrade Soil	Mr. Aditya Shankar Ghosh Er. Pradip Kumar Choudhury Dr. Tapash Kumar Roy Dr. Sandip Chakraborty Dr. Sudip Kumar Roy
15:00 - 15:10	218	Discrete Element Modelling of Bonded and Unbonded Geomaterial Behaviour for Pavement Application	Mr Milind Amin Mr M Saravanan Dr Rakesh J Pillai
15:10 - 15:20	600	Experimental Investigation of Expansive Soil Reinforced with Natural Fibres for Sustainable Transportation Infrastructure	Mr. Rongali Mahesh Prof T V Bharat Rajan Choudhary
15:20 - 15:30	677	Shear Performance of Granite-Slag Mixture for Railway Sub-Ballast Applications	Mr. Godson M D Dr Bande Giridhar Rajesh Mr Deshmukh Mayur Balasaheb
15:30 - 15:40	576	Improvement of Cohesive Subgrade with Overlay of Moorum	Sandeepan Saha Rajesh Nandi Dr. Ashimanta Sengupta Dr. Sumit kr. Biswas
15:40 - 15:50	328	Performance of Geopolymer and Cement Stabilized Black Cotton Soil as Road Materials	Mr. Suresh Prasad Singh Dr. Datla Neeraj Varma Mr Vijay Purna Buddha
15:50 - 16:00	302	Assessing Geocell-reinforced Mine Overburden Materials: Numerical Validation of Experimental Findings for Improved Haul Road Performance	Dr. Jagdish Gouda Mr. Srinivasan V Ms Swati Varma
16:00 - 16:10	173	Combined use of industrial waste materials for their Effective Bulk Utilisation in Pavements	Mr Rishabh Chaurasia Prof V Ramana Murty Dr G V Ramana

Day - 1, Technical Session - 2 (18-12-2025; 16:20 - 18:00), Venue: T2-A
(Theme - Geoenvironmental Engineering)

Time	Paper ID	Paper Title	Authors
16:20 - 16:40	Theme Lecture 7	Micromechanistic Insights into the Abnormal Behavior of Acid- and Alkali-Contaminated Soils and their Mitigation Strategies	Dr. P Hariprasad Reddy
16:40 - 16:50	45	Characterization of Desiccation-Induced Strain Localization in Compacted Expansive Soil Using Digital Image Correlation	Brijesh Agarwal Ajanta Sachan
16:50 - 17:00	68	Thermal and Hydrological Soil Profiling for Shallow Geothermal Energy Assessment Using SMEC Sensors in Dholera, Gujarat	Sriparna Roy Prof.Tanusree Chakraborty Prof. J T Shahu
17:00 - 17:10	594	Quantitative Assessment of Fiber Reinforcement on Soil Shear Response	Pratibha Thakur Dr Kala Venkata Uday



17:10 - 17:20	648	Influence of Grain Size on Swelling Pressure and Hydraulic Performance of Granular Bentonites in GCLs	Dr. Himanshu Yadav Prof T V Bharat
17:20 - 17:30	455	Prevention of Volumetric Change in Black Cotton Soil Stabilized with Iron Ore Tailing-based Geopolymer	Lunavath Reddy Dr Sudheer Kumar Yamsani
17:30 - 17:40	301	Assessment of Gas Flow and Infiltration through Capillary Barrier Systems in the Arid Environment of Rourkela	Mr. Ashwini Kumar Mohapatra Dr. Minakshee Mahananda Dr. Suman Roy
17:40 - 17:50	564	Cutoff Wall Performance in a Layered Buffer–Aquifer System under Uniform Inflow Contaminant	R Mahender Reddy Dr Bande Giridhar Rajesh Dr. Chandra Bhanu Gupt
17:50 - 18:00	56	An Experimental Investigation on the Stabilization of Landfill-Mined Fine Fraction by Geopolymerization	Vaishnavi Jahagirdar Dr. Anil K. Mishra

Day - 1, Technical Session - 2 (18-12-2025; 16:20 – 18:00), Venue: T2-B
(Theme - Rock Mechanics, Tunneling and Underground Structures)

Time	Paper ID	Paper Title	Authors
16:20 - 16:40	Theme Lecture 8	Hardening and Softening Parameters of Rock Masses based upon Laboratory and in situ Testing	Prof. A Trivedi
16:40 - 16:50	174	Limit Analysis-Based Solution for Tunnel Stability in the Cohesive-Frictional Soil Slopes	Siddharth Pandey Ms. Soumita Mondal Dr Akanksha Tyagi
16:50 - 17:00	194	Dynamic Acousto-Elastic Testing for Characterization of Gujarat Granite and Aluminum	Anita Verma Prof. Deepanshu Shirole
17:00 - 17:10	400	Stability of dual double D-shaped tunnels in Hoek-Brown rock mass	Mr. Ayush Agrawal Dr. Paramita Bhattacharya
17:10 - 17:20	94	Hydromechanical Behaviour of Jointed Rock Slopes with Sand and Clay as Infill under Varying Rainfall Intensities	Mr. Bhawarnab Gautam Dr. Siddharth Mehndiratta
17:20 - 17:30	336	Dynamic Response of Inclined Twin Tunnels Subjected to Moving Train Induced Loads	Mr Satheeshkumar Tankara Mr Madhu Krishna Mandusamanu Dr Sanjit Biswas
17:30 - 17:40	437	Analysis of Ground Settlement Due to Tunnel Excavation by TBM in Soil	Er. Chiranjib Sarkar, Er Snehal Wakale Dr. Sandeep Poinis
17:40 - 17:50	520	Estimation of Surface Settlement Due to Twin Tunnelling in Layered Soil- A Case Study	Mr. Abhineet Godayal Dr. Manojit Samanta
17:50 - 18:00	676	Reducing Subjectivity in the Q-slope Method: A New Approach to Compute the Orientation Factor	Dr. Lal Hruaikima Dr. Mahendra Singh Dr. Sarada Prasad Pradhan

Day - 1, Technical Session - 2 (18-12-2025; 16:20 – 18:00), Venue: T2-C
(Theme - Physical & Numerical Modeling and AI&ML)

Time	Paper ID	Paper Title	Authors
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16:20 - 16:40	Theme Lecture 9	Geoenvironmental Engineering	Dr. B Janaki Ramaih
16:40 - 16:50	79	Numerical Analysis of an Embankment Constructed Using Expansive Soil Mixed with Mango Kernel Ash and Fly Ash in PLAXIS	Bhavitha Kamasani Resmi Sebastian Prof. Mallikarjuna Rao K
16:50 - 17:00	110	Performance of anchored diaphragm wall system in stiff clay: numerical study	Mahendra Patel Dr. Baleshwar Singh
17:00 - 17:10	441	Numerical Modelling on Stress and Strain Distribution of Geotextile Reinforced Granular Soil	Mr. Tanmoy Shil Prof. Sujit Kumar Pal
17:10 - 17:20	449	Modelling Gas Emissions Through Bentonite-Sand Landfill Covers Under Climatic Variability: Influence of Cracks and Barrier Composition	Mr. Tarini Prasad Samal Mr. Abhisek Pandey Mr. Rishabh Raj Dr. Suman Roy
17:20 - 17:30	633	Numerical Modelling of Waste Foundry Sand Backfilled Retaining Wall	Dr Ankit Kumar Dr. Aditya Parihar
17:30 - 17:40	353	Rate Dependent Response of Unbonded Granular Media Subjected to Direct Shear Test	Isika Kumari Panda Udathala Hanumanthu Dr Soukat Kumar Das
17:40 - 17:50	844	Predicting Shear Strength of Soil using Boosting Models: A Comparative Study	Anjaney Tiwari Dr. Pradeep Kumar Jain
17:50 - 18:00	636	Evaluation of anchored sheet pile behaviour in cutting and filling conditions by numerical investigation	Dr. Siddhartha Mukherjee Mr. Akash De

Day - 1, Technical Session - 2 (18-12-2025; 16:20 – 18:00), Venue: T2-D
(Theme - Sustainable Materials)

Time	Paper ID	Paper Title	Authors
16:20 - 16:40	Theme Lecture 10	Nanotechnology: Engineering and Geoenvironmental Applications	Prof. Ajay Bansal
16:40 - 16:50	117	Enhancing Waste Foundry Sand-MgO Composite with Silica Fume: Effects and Insights	Ms Ranita Ray Basil Jaimon Dr Sreedeeep Sekharan Dr. Uttam Manna
16:50 - 17:00	838	Influence Of Soil Mechanical Properties on the Compressive Strength of Rammed Earth Infilled Steel Tube	Nagaram Sai Charan Dr Raghavan Ramalingam Aswin C P
17:00 - 17:10	106	Modification of Engineering Properties of Black Cotton Soil Using Red Mud	Mr Lakshman Kumar Gope Brahmdeo Yadav Rohit Raj, Sumit Kumar Dr Bimal Kumar
17:10 - 17:20	116	Effectiveness of Biochar in Stabilizing Kuttanad Soil for Sustainable Engineering Applications	Ms. Drushna C Raj and Seethalakshmi P
17:20 - 17:30	181	Durability assessment of soils stabilized with Agricultural and Municipal Waste Ash	Mrs. Shabana Salih K Dr. Vandana Sreedharan
17:30 - 17:40	804	Improving Geotechnical Properties of Expansive Soil Using Bottom Ash	Mr. Sumit Kumar Prof. Anil Kumar Choudhary Dr. Rajiv Kumar Dr. Abdhesh Kumar Sinha

17:40 - 17:50	253	Soil Salinity Resistance of Eco-Friendly Concrete with Partial Cement Replacement by Marble Dust	Dr. Kavita Tandon, Mr. Manish Kumar, Ms. Anshita Shukla Mr. Deependra Arya, Mr. Om Mishra, Mr. Om Kumar, Dr. Rajiv Ganguly
17:50 - 18:00	135	Sustainable Stabilization of Kuttanad Soil Using Red Mud and Steel Slag for Geotechnical Engineering Applications	Ameera PC Seethalakshmi P

Day - 1, Technical Session - 2 (18-12-2025; 16:20 – 18:00), Venue: T2-E
(Theme - Case Studies & Forensic Geotechnical Engineering)

Time	Paper ID	Paper Title	Authors
16:20 - 16:30	493	Site Investigation in a High Landslide-Risk Zone of Southern Assam using Seismic Refraction and Electrical Resistivity Tomography: A Case Study	Dr. Prabhakar Vishwakarma Silky Agrawal
16:30 - 16:40	680	Microtremor-based bedrock depth estimation: A case study from Noida city, India	Mr. Pankaj Kundu Dr. Anindya Pain, Dr. A Chandel, Dr. Lal Hruaikima
16:40 – 16:50	560	Slope Stability Analysis of Rainfall-Induced Failure at Lalpani Sewerage Plant, Shimla, India	Mr Sahil Kumar Dr. Kunjari Mog Dr Hemant Kumar Vinyak
16:50 - 17:00	735	Soil Particle Type and Magnification Effect on Surface Charging in Scanning Electron Microscopy: An Experimental Study	Mr Polugari Venkateswarlu Professor K Seshagiri Rao
17:00 - 17:10	695	Analysis of a Gabion Retaining Wall- A Case Study	Bhaskar Chandra Barman Dr. Arghadeep Biswas SK Ajfar Hossain
17:10 - 17:20	52	Static and Pseudo-Static Stability Analysis of Ash Pond Dykes Using PLAXIS 2D - A Case Study	Vidya Shankar Kumar Subhadeep Metya Gautam Bhattacharya
17:20 - 17:30	44	Analysis of Ground Water Transient Seepage Using PLAXIS Software: A Case Study	Mr Lalit Patil, Mr. Digambar Parakhe, Sunil Vasant Chaudhari, Ashok kumar Shamrao Mahire Chandrakant N Mali
17:30 - 17:40	821	Case Study: Enhancing Railway Safety through Rockfall Mitigation in the Western Ghats Region	Mrs Roshan RSV, Mr. Rudra Budhbhatti, Dr. Ratnakar R Mahajan
17:40 - 17:50	87	A Review on the Applications of Infrared Thermography in Geotechnical Engineering: Advancements, Challenges, and Future Prospects	Pavan Kumar Revuru Resmi Sebastian
17:50 - 18:00	856	Structural Health Monitoring of Geo-InfraStructures: A Comprehensive State-of-the-Art Review	Sarath Rajeev Dr. Ganesh Kumar S

Day - 1, Technical Session - 2 (18-12-2025; 16:20 – 18:00), Venue: T2-F
(Theme - Ground Improvement Techniques & Geosynthetics)

Time	Paper ID	Paper Title	Authors
16:20 - 16:30	129	A review on chemical and cement grouting for ground improvement from a green perspective	Mr. Piyush Shahane, Prashasthi Shetty, Vinayak K, Mr. Nishant Kharat, Darsh Jain, Sanika Mirgal, Kshitija Nadgouda
16:30 - 16:40	72	Evaluation of Vertical Geodrain Performance in Soft Clay Using Barron's Theory and Statistical Analysis	Dr. Ruchi Shrivastava Dr A. V Shroff
16:40 – 16:50	180	Use Of Geocell for Full Depth Pavement Rehabilitation: A Case Study of Kheda-Matar-Tarapur Road	Mr Piyush Solanki, Mr Deeraj Kumar Reddy and Mr Manish Barot

16:50 - 17:00	398	Numerical Analysis of Short-Term and Long-Term Behaviour of Soft Clays Stabilised with Geopolymer Based Deep Mixing Columns	Sivakami Devi M, Meghna V S and Rakesh J Pillai
17:00 - 17:10	111	Performance evaluation of waste plastic bottle geocells by varying aspect ratio and placement depth	Mr Anurag Khadse, Dr. Amit Padade, Dr. Anupam Pande
17:10 - 17:20	112	Geotechnical Enhancement of Fly Ash Using GGBS for Sustainable Construction	Mr. Rajat Panda Prof Ashis Kumar Bera
17:20 - 17:30	797	Cost efficient ground improvement techniques for wind turbine foundation in soft soils	Nirmal raj P Dr Sunil Ranjan Mohapatra
17:30 - 17:40	152	An experimental study on stabilization of black cotton soil blended with brick waste powder and lime	Mr. Bony Sharma, Bhargav Rana, Mr. Shashank Singh Dr. C H Solanki
17:40- 17:50	438	Effect Of Bamboo Biochar and Its Alkali-Modified Derivative on the Compressibility of Clayey Soil	Mr Mohammad Nuruddin Prof Arif Ali Baig Moghal
17:50- 18:00	303	Behaviour Of Inclined Loaded Strip Footings with Disconnected Skirt and Geogrid Reinforcement	Sujeet Kumar Bhatt, Vikas Mishra Dr. Mantu Majumder

Day - 2, Technical Session - 3 (19-12-2025; 14:00 - 15:40), Venue: T3-A

(Theme - Geoenvironmental Engineering)

Time	Paper ID	Paper Title	Authors
14:00 - 14:20	Theme Lecture 11	Real-Time Field Monitoring of Seasonal Variations and Rainfall Effects on Reinforced Soil Structures in Unsaturated Residual Lateritic Slopes	Dr. P V Divya
14:20 - 14:30	242	Experimental Study on Geotechnical Performance and Desiccation Cracking of RHA–Bentonite–Ganga Sand Mixtures for Engineered Liner Systems	Rajiv Kumar Mr. Yuvraj Roy Dr. Sunita Kumari Dr. Kuldeep Sharma
14:30 - 14:40	183	Permeability Characteristics of Granulated and Powdered Bentonite Permeated with Distilled Water Under Different Mechanical Stresses	Bhaskar Jyoti Medhi Dr. Binu Sharma
14:40 - 14:50	334	Enhancing the Geotechnical Properties of Pond Ash via EICP Technique- A Sustainable Approach	Mr. Suresh Prasad Singh Mr Vijay Purna Buddha Mr Nitesh sahu
14:50 - 15:00	124	Effect Of Particle Size on the Strength of Microbially Induced Carbonate Precipitation Treated Soils	Shagun Ishara Dr. Aditya Parihar Prof M. Sudhakara Reddy
15:00 - 15:10	348	Prediction of Hydraulic Conductivity of Geosynthetic Clay Liners using Artificial Neural Network	Mr. Sougata Banerjee Dr. Vishwajeet Khan
15:10 - 15:20	758	Assessing Municipal Wastewater for Industrial Contaminants in Proximity to an Industrial Area	Mr. Ashwani Kumar Prof. Mahender Choudhary Dr. Amit Kumar
15:20 - 15:30	409	Hydro-mechanical Performance of Soil-bentonite Cutoff Walls amended with Blast Furnace Slag and Rice Husk Ash	Purimetla Sai Chenna Kesava Charyulu Dr Bande Giridhar Rajesh
15:30 - 15:40	473	Sustainable Stabilization of Closed Landfills Using Calcium Carbide Residue and Fly ash as a Lime Alternative	Smt Yaminee Patil Dr Swati Patil Dr Mahesh Endait

Day - 2, Technical Session - 3 (19-12-2025; 14:00 - 15:40), Venue: T3-B

(Theme - Foundations: shallow and Deep)

Time	Paper ID	Paper Title	Authors
14:00 - 14:20	Theme Lecture 12	Landslide Hazard Analysis and Mitigation	Prof. R K Sharma
14:20 - 14:30	141	Lateral response of tapered pile in two-layered soils	Vikas Mishra Sujeet Kumar Bhatt Dr. Mantu Majumder
14:30 - 14:40	590	Performance of JuteCell Reinforced Sand: An Experimental Study	SK Ajfar Hossain Dr. Arghadeep Biswas Dr. Obaidur Rahaman
14:40 - 14:50	251	Experimental Determination of Dynamic Stiffness and Damping Values for Embedded Block Foundations Subjected to Vertical Vibrations	Dr. Kavita Tandon Prof. Bappaditya Manna Dr. G V Ramana
14:50 - 15:00	261	Analysis of Helical piles under various loading conditions	Yedire Kowshik Mr Rathod Kiran Mr Syam Sundar Gongati Dr K kumar Gonavaram
15:00 - 15:10	268	Finite Element Analysis of Square, Rectangular and Circular footing Resting on Hill-Slopes	Mr. Rajesh Deb Malaya Chetia
15:10 - 15:20	318	Evaluation of Unconnected Piled Raft Systems with Geofoam and Structural Fill Cushions in Cohesive Soils through PLAXIS 3D Simulation	Mr. Shashank Singh Mr. Bony Sharma Ujjawal Prakash Dr. C H Solanki Dr. Shruti Shukla
15:20 - 15:30	325	A Study on Enhancement of Capacity of An Existing Shallow Foundation Rested On Clay Soil Using Perimeter Micropile Group	Ms. Geetashree Sonowal Dr. Nirmali Borthakur
15:30 - 15:40	549	Investigation on Load sharing and Settlement Response of Flexible Piled Raft Foundation in Cohesionless soil	Nikita Chauhan Manojit Samanta

Day - 2, Technical Session - 3 (19-12-2025; 14:00 - 15:40), Venue: T3-C

(Theme - Earth Retaining Structures, Slope Stability & Landslides)

Time	Paper ID	Paper Title	Authors
14:00 - 14:20	Theme Lecture 13	Futuristic Geosynthetic Solutions for Drainage, Erosion, and Soil Reinforcement	Dr. Anand Hulgaballi
14:20 - 14:30	404	Investigation of Erodibility Characteristics of Silty Soil	Niranjana Nirmal Lekshmi Nandana D Sidharth M. S, Sneha U Dr Sreeja Balakrishnan Sruthi Krishnan
14:30 - 14:40	132	Numerical Study of Pile Stability in Unsaturated Slopes Under Rainfall Infiltration	Mr. Deepak Kumar Singh Dr. Siddharth Mehndiratta Mr. Pankaj Gupta
14:40 - 14:50	196	Landslide Hazard Assessment of Kharghuli	Himanjali Bharali Dr. Sasanka Borah
14:50 - 15:00	356	Enhancing Shear Strength of Granular Soils Using Bio-inspired 3D Printed Particles	Mr. Chiranjeev Tandon Dr Soukat Kumar Das

15:00 - 15:10	283	Road retention measures with Gabion Fascia Reinforced Soil (RS) Wall at various locations between CH km 51+000 to CH km 72+000- Package 2A on Pathankot to Mandi Highway (NH-154)	Mr. Azhar Mohd Mr. Harshdeep Singh Mr. Vikas Parmar
15:10 - 15:20	296	Pullout Resistance of Inclined Strip Anchor Embedded in Homogeneous Sand Bed	Dr. Rakesh Shambharkar Dr. Santhoshkumar G. Mr. Srinivasan V
15:20 - 15:30	225	Development of Design and Stability Charts for Gravity Retaining Walls on Slopes	Ruchika Thakur Koushik Pandit
15:30 - 15:40	78	A Study on Slope Stability of Hooghly River at Sanyal Char, Nadia, West Bengal	Dr Partha Basu Dr. Sibapriya Mukherjee Miss. Susama Sarkar Mr. Rajkumar Banerjee

Day - 2, Technical Session - 3 (19-12-2025; 14:00 - 15:40), Venue: T3-F

(Theme - Transportation Geotechnics)

Time	Paper ID	Paper Title	Authors
14:00 - 14:10	76	Suitability of Fly Ash-Foundry sand mixes in geotechnical applications	Mr. Suresh Prasad Singh, Mr. Sambit Bohidar Mr. Rishabh Raj
14:10 - 14:20	104	Effect of bottom ash content on resilient modulus response of pond ash under repeated loading-unloading	Sujay Teli, Manish Kumar Prof. Ajanta Sachan
14:20 - 14:30	128	Guar Gum Biopolymer-Stabilized Lithomargic Soil for Sustainable Pavement Subgrades	Prof. Arun Kumar Bhat Dr. Shriram Marathe Prof. Srinath Shetty
14:30 - 14:40	144	Prediction of Resilient Modulus from Dynamic Cone Penetration Index of Clayey silty sand and Silty sand	Prof. C.N.V S Reddy Lavanya Rekha Pyla
14:40 - 14:50	209	Case Study: An alternative material to drainage layer in rigid pavement, replacement of GSB layer with drainage composite	Rahul Kumar Mr Deeraj Kumar Reddy Mr Manish Barot
14:50 - 15:00	215	Mitigating Settlement in High Embankments over Soft Clay Using EPS Geofoam: A Numerical Case Study	Mr. Vaibhav Butle, Dr. Parvathi G.S. Mr. Anirban Mandal Mr. Srinivasan V
15:00 - 15:10	243	Influencing Factors and Evaluation metrics for Rail-Induced Ground Vibrations: A Critical Review and Case Study Validation	Ms N Bhattacharjee Prof. Bappaditya Manna Dr Arnab Banerjee
15:10 - 15:20	524	Indigenously Developed Nano-Composite Jute Geotextile for Weak Subgrade Stabilization in High-Speed Railway Track	Sahinur Rahaman Mondal Sk Moinul Haque, Dr. Supriya Pal Dr. Rajib Ghosh Chaudhuri
15:20 - 15:30	860	Recycled C&D Waste Aggregates for Sustainable Pavements: Laboratory Insights and Field Experience	Dr. Ravishankar Subramaniam, Ayush Dhoundiyal, Dr. Raheena M, Sandeep Singh
15:30 - 15:40	494	A study on a mechanistic - empirical approach for estimation of compacted subgrade thickness using axle load repetition, natural subgrade and layer index as input parameters	Dr. P Pratim Biswas, Ms. Shreya Pal, Mr. Sourav Paul, Dr. Manoj Kumar Sahis

Day - 2, Technical Session - 3 (19-12-2025; 14:00 - 15:40), Venue: T3-D

(Theme - Ground Improvement Techniques & Geosynthetics)

Time	Paper ID	Paper Title	Authors
14:00 - 14:20	Theme Lecture 15	Sustainable Development in the field of Landslide Mitigation	Ms. Annapoorni Iyer

14:20 - 14:30	19	Assessment of human health risk due to heavy metal (As, Cr, Pb, K, Cd) soil contamination and its reduction by selective phytoremediation	Er. Ankit Gupta Prof. RK Srivastava Er. Mani Mahesh
14:30 - 14:40	41	Predicting Field Static Compaction Energy from Soil Properties: A Regression-Based Approach for Fine-Grained Soils	Jayanta Kumar Das Dr. Binu Sharma Nikumani Kalita
14:40 - 14:50			
14:40 - 14:50	50	Study On Improvement of Soft Clay Using Natural and Artificial Fibres	Disha Chanda, Ms Prachi Biswas, Mr Rahul Das, Ms Piyali Das, Mr Subhajit Chakraborty Dr P Debnath
14:50 - 15:00	149	Enhancing Subgrade Soil Performance with Bamboo Charcoal Quarry Dust and Lime for Road Construction	Varinder Singh Dr Prashant Garg
15:00 - 15:10	165	Critical state parameter of Ennore sand	Punyasha Seeyaram, Dr Satyajit Nanda Mrs Preetynanda Nanda Dr. Benu Gopal Mohapatra
15:10 - 15:20	192	The Effect of Plastic fines on Permeability and Elastic Modulus of Gravel	Swagatika Dakua Shachi Yadav Dr. Suravi Pal
15:20 - 15:30	198	Effects Of Cement and Fly Ash on the Improvement of Kokrajhar Clayey Soil	Sweta Das Shafi Kamal Rahman, Anisha Barma Deb Darshan Misra Adit Kemprai
15:30 - 15:40	6	Stabilisation Of Clayey Soil Using Biopolymer and Biocementation Techniques	Amal A Swetha S M Saji Ms. Diana Alice Sugunan

Day - 2, Technical Session - 3 (19-12-2025; 14:00 - 15:40), Venue: T3-E
(Theme - Physical & Numerical Modeling and AI&ML)

Time	Paper ID	Paper Title	Authors
14:00 - 14:20	Theme Lecture 16		Dr. Pijush Samui
14:20 - 14:30	73	Machine Learning Approaches for Predicting Future Landslide Susceptibility and Land Use Dynamics in The Himalayas	Ms. Aakriti Sharma Dr Reet Kamal Tiwari Dr. Naveen James
14:30 - 14:40	335	Predictive Modelling for Slope Stability by Machine Learning	Mr. D.V.J. Sai Charan Maganti Dr Soukat Kumar Das
14:40 - 14:50	641	Optimizing Soil Classification Through Machine Learning: A Multi-Model Evaluation	Mr Vishnu C M Prof Arif Ali Baig Moghal
14:50 - 15:00	839	Predicting Swelling Behaviour of Bentonite using Machine Learning Models	Astha Tripathi Dr. Hasthi Venkateswarlu
15:00 - 15:10	850	Application of Machine Learning for Predicting Seismic Amplification Factors Across Diverse Indian Sites	Mr. Dhananjay Rahangdale Dr Shrabony Adhikary Dr Ravindra Keskar
15:10 - 15:20	126	A Two-stage Machine Learning Framework for Subsoil Characterization with Low Density Borehole Sampling	Mr. Alok Roy, Mr. Santanu Das Dr. Sourav Saha, Dr. S K Biswas, Dr. Sibapriya Mukherjee



15:20 - 15:30	140	Integrating Machine Learning into Soil Contamination Research- A Critical Review	Sheethal Gujjalwar Yashwanth Kukkala Dr. Prathyusha Jayanthi
15:30 - 15:40	671	Predicting Geotechnical Parameters of Soil by using Machine Learning Techniques	Ms C Srivarshini, Ms Naga V Dasari, Mr B Y Sai Dr K K Gonavaram, Dr. Teja Munaga

Day - 2, Technical Session - 4 (19-12-2025; 16:00 – 18:00), Venue: T4-A
(Theme - Foundations: shallow and Deep)

Time	Paper ID	Paper Title	Authors
16:00 - 16:10	877	Analytical and Numerical Methods for Evaluating Rotational Stiffness of WTG Foundation	Balsukuri Mahesh Dr Sunil Ranjan Mohapatra
16:10 - 16:20	64	Numerical Analysis on Bearing Capacity of Two Interfering Square Footing Resting on a Rock-Mass	Dr. Manendra Singh Mr. Nikhil Kumar Mishra Saksham Sood Shubham
16:20 - 16:30	563	Numerical Analysis of Shallow Foundation Interaction on Layered Subsoil using PLAXIS2D	Mr. Vivek Kumar Mishra Dr. Kumar Shubham Subhadeep Metya
16:30 - 16:40	822	Evaluation of Load-Carrying Capacity of Piles with Varying Diameters and Lengths in Stratified Soil Conditions: A Comparative Study	Dr. Gaurav Gupta Mr. Paras Vaid
16:40 - 16:50	687	Experimental Validation and Seismic Parametric Study of Skirted Shallow Foundations on Slopes	Miss Sweta Verma Dr. Saswati Datta Dr. Vinay Bhushan Chauhan
16:50 - 17:00	692	Foundation Of Multi-Storey Structure in Waterlogged Area of North Goa	Dr. Sumitra Kandolkar Dr Nisha P. Naik Er. Radha Rao
17:00 - 17:10	851	Revisiting the Depth Factors for Shallow Foundation	Vaibhav Sharma Dr. Dhiraj Raj Dr. Bharathi M
17:10 - 17:20	557	A Review of Design Approaches and Load-Bearing Behavior of Single Helical Piles	Amit Kumar Dr. Jitendra Singh Yadav
17:20 - 17:30	562	Geotechnical Characterization of Lateritic Rocks: Implications for Numerical and Structural Modelling	Mrs Annapurna Sakhardande Dr Ganesh Hegde Dr Nisha P. Naik
17:30 - 17:40	316	Evaluation of lateral load carrying capacity of H piles in undrained clay	Helly Pandya Dr. Jitesh T. Chavda
17:40 - 17:50	153	Compressive Load Test on Fiber Reinforced Concrete Pile Foundation in Cohesionless Soil	Mr. Koushik Sukla Das, Prof. Sujit Kumar Pal
17:50 - 18:00	220	Mitigating Foundation Challenges for Anex buildings at Shri Rama Janma Bhoomi temple complex through a Geotechnical Data driven Approach	Sushma B V, Mr. Ravi Sundaram, Mr. Manos Kumar De, Mr. Sanjay Gupta

Day - 2, Technical Session - 4 (19-12-2025; 16:00 – 18:00), Venue: T4-B
(Theme - Rock Mechanics, Tunneling and Underground Structures)

Time	Paper ID	Paper Title	Authors
16:00 - 16:10	713	Performance Assessment of Underground Tunnels Under Missile Penetration and Blast: Effect of Liner Material	Mr Ibraheem Rais Dr Md Rehan Sadique Prof. Mohd. Masroor Alam

			Dr Zaid Mohammad
16:10 - 16:20	310	Influence of Structural Stiffness on the Behaviour of Braced Excavation	Priya Hazra Dr. Sanku Konai
16:20 - 16:30	61	Data-Driven Estimation of Hydraulic Permeability in Natural Fracture Networks from Topological Parameters	Mr. Sufi Gulzar Prof. Lal Roy
16:30 - 16:40	345	Effect of Moisture Changes on Lateral Soil Resistance to Buried Pipelines in Fine-Grained Soils	Abhijit Nayak Sanjanasree Jogipilli Mr Vijay Purna Buddha Dr. Suman Roy
16:40 - 16:50	655	Parametric Analysis of Backfill Properties on Structural Response of Soil Steel Bridges using Finite Element Modelling	Aswin C P Dr Raghavan Ramalingam
16:50 - 17:00	631	Behaviour of Circular Footing on Jointed Rockmass under Eccentric and Inclined Loading	krishna kotiyal, Dr. Manendra Singh
17:00 - 17:10	816	Analytical Investigation of Tensile Stress and Displacement Behaviour In Elastic Ring Specimens Under Diametral Compression	Parveen Kumar Dr. Baljit Singh Wallia Dr. Srijan Srijan Dr. Vanita Aggarwal
17:10 - 17:20	626	Blast-Induced Rock Damage in Tunnels: A Parametric Study	Dibya Raman Patra Mr. Shashank Bhatnagar Dr. Sunil Khuntia Manojit Samanta
17:20 - 17:30	36	Buried Pipelines Subjected to Traffic Loads: A State-of-the-Art Review	Jaya Krishna Prasad Itha Dr. Chaidul Haque Chaudhuri
17:30 - 17:40	626	Blast-Induced Rock Damage in Tunnels: A Parametric Study	Dibya Raman Patra, Mr. Shashank Bhatnagar, Dr. Sunil Khuntia, Manojit Samanta
17:40 - 17:50	419	Effect of Normal Stress and Specimen Size on the Shear Behaviour of Synthetic Rock Joints	Rose Paul, Gaurav Gupta, Deepanshu Shirole, Ramanathan Ayothiraman
17:50 - 18:00	81	Engineering Insights into Anchored Sheet Pile Walls: A Mini Review of Structural Behaviour and Design Approaches	Mr. Yogesh Patidar, Mr. Roshan Saini, Mr. Govind Kumar Bharti, Dr. Akshay Pratap Singh
Day - 2, Technical Session - 4 (19-12-2025; 16:00 – 18:00), Venue: T4-C (Theme - Sustainable Materials)			
Time	Paper ID	Paper Title	Authors
16:00 - 16:10	364	Utilization of Clay-Based Supplementary Cementitious Materials for Sustainable Concrete and Geotechnical Applications	Mr Praneeth Paul Bhukya Dr Sanjit Biswas Prof H K Padavala
16:10 - 16:20	533	Enhancing the Mechanical Properties of Bottom Ash Using Xanthan Gum Biopolymer	L Abhijith, Dr Kodi R, Renjitha Mary Varghese
16:20 - 16:30	654	Investigation on Engineering Properties of Waste Foundry Sand	Lopamudra Mallick Dr Adyasha S Amanta
16:30 - 16:40	706	Strength and Swell Control in Kaolin Clay Stabilised with Surkhi and Waste Glass Powder	Dr. Nadeem Shahmir Dr Ilyas A Bhat Prof. Rouf Khan, R Kumar Akhliaq Javaid, Aman Kumar Mr M A Rahila Sayed
16:40 - 16:50	426	Harnessing Fly Ash for Soil Stabilization: A Pathway to Sustainable Infrastructure Development	Mr Humaib Nasir Mr Angom Carlos

16:50 - 17:00	413	Life Cycle Assessment of Alternative Binders for Stabilization of Marine Clay	Ms. Meghna Anish C Mrs. Shabana Salih K Rejin Raj Dr. Vandana Sreedharan
17:00 - 17:10	389	Chitosan modified construction and demolition (C &D) waste for the potential application as a subgrade material: Strength and Durability Characteristics	Ms Ajina Noushad Mrs Sai Niveditha M G Dr Romana Mariyam Rasheed
17:10 - 17:20	322	Neutralizing Alkalinity of Red mud by optimizing parameters for Nanobioremediation using Taguchi Method	Ms. Jinsha T V Dr Beena K S
17:20 - 17:30	286	Geomaterial Characterization	Bibha Mahto, Dr L Yadu, Dr. Sunny Deol Guzzarlapudi
17:30 - 17:40	121	Influence of Marble Dust waste on the Swell-Shrink and Strength Characteristics of Expansive Soil	Dr. Khushbu Gandhi
17:40 - 17:50	682	Impact of Alkaline Treatment and Natural Rubber Latex Coating on the Mechanical Properties of Jute Geotextile Yarn	Arnab Ghosh, Dr. Sowmiya Chawla, Dr. Vishwas Khatri
17:50 - 18:00	510	Evaluation of Alkali-Activated GGBS-RHA Geopolymer Composites for Sustainable Material of Low Volume Road	Ms. Pooja Verma, Dr. Jitendra singh Yadav, Prof. Suresh Kumar Tiwari
Day - 2, Technical Session - 4 (19-12-2025; 16:00 – 18:00), Venue: T4-D (Theme - Geoenvironmental Engineering)			
Time	Paper ID	Paper Title	Authors
16:00 - 16:10	895	Performance of Classical vs Augmented Data in Predictive Modeling of Biocementation	Ms Jailalita Dr. Meghna Sharma
16:10 - 16:20	835	Effect of Density and Organic Fluid on Permeability of Granulated Bentonite	Nambrata Basumatary Dr. Binu Sharma
16:20 - 16:30	788	Modelling the Thermomechanical Behavior of Energy Pile-Raft Foundation in Indian Soil	Ravi Kant Ranjan, Dr. Somenath Mondal Dr. MD Azhar
16:30 - 16:40	649	Innovative Biogeotechnical Strategy for Unconfined Compressive Strength Enhancement of Expansive Soil Using MICP and Recycled Sanitary Napkin Fibers	Ms. Bharti Kumari Dr Meghna Sharma
16:40 - 16:50	623	Chemical compatibility of Bentonite – Ground Granulated Blast Furnace Slag Modified Cutoff Walls: A Review.	Mrs Pallavi Padalkar Dr Mahesh Endait
16:50 - 17:00	605	Stabilisation of Crude Oil Contaminated Kaolinite Using Silica Fume and Alkali Activation	Dr Ilyas Ahmad Bhat, Dr. Nadeem Shahmir, Prof. Rouf Khan, Tafem Banday, Sadaf Firdous, Ruqaiya Rashid Zakir Hussain
17:00 - 17:10	383	Phytoremediation of Chemically Stabilized Ash Beds: A Study on Toxic Element Reduction	Tuhin Kumar Jib Aparupa Pani
17:10 - 17:20	341	A Comprehensive Review of Hydraulic, Mechanical, Adsorption and Leaching Behaviour of Waste Materials for Possible Application as a Hydraulic Barrier	Mr Pramadhanatha Reddy Pocha, Dr Ramakrishna Bag
17:20 - 17:30	566	A Review on the Remediation of Leachate-Contaminated Soils Using Nanomaterials	Mrs. Grishma Sagar Nadkarni Dr. Vikas Gingine
17:30 - 17:40	134	Geotechnical Assessment of Waste Materials as Alternative Landfill Liner Materials	Mr. Rajiv Kumar, Mr. Raju Kumar, Mr. Krishna Keshav Dr. Sunita Kumari

17:40 - 17:50	184	Swelling & Permeability behaviour of Granulated Bentonite under different densities	Nambrata Basumatary, Dr. Binu Sharma, Bhaskar Jyoti Medhi
17:50 - 18:00	320	A study on the Synergistic Effect of Silica Fume on the Strength Performance of Fly Ash-MgO Composites	Basil Jaimon, Ms Ranita Ray, Dr Sreedeeep Sekharan, Rajan Choudhary

Day - 2, Technical Session - 4 (19-12-2025; 16:00 – 18:00), Venue: T4-E
(Theme - Soil Dynamics and Soil Structure Interaction)

Time	Paper ID	Paper Title	Authors
16:00 - 16:10	63	Effect of liquefaction on combined Pile and Raft Foundation	Mahipal Singh Dr. Manendra Singh
16:10 - 16:20	158	Assessment Of Liquefaction Potential at Rajarhat in Kolkata City Using Vs-Based Simplified Approach Combined with Numerical Simulation with Plaxis2d	Soham Karan, Sofi Abrar Ahmad, Dr. Narayan Roy, Prof. Ramendu Sahu
16:20 - 16:30	207	An integrated approach combining real-time settlement monitoring with FEM-based modeling for high-rise piled raft foundations	Utpal Santra, Gokul CH Mondal, Shuvajit Saha Rajesh Nandi
16:30 - 16:40	270	Seismic Vibration Mitigation in Foundations Using EPDM Rubber: A Shake Table Approach	Mr B Thanishkar, Ms N V Dasari, Mr Pritam Singh, Ms Shivani A, Dr K K Gonavaram
16:40 - 16:50	274	Boundary wall effect in soil-monopile interaction	Kamaldeep Behera, Dr S Nanda
16:50 - 17:00	447	Effect of Water Seepage on Seismic Performance of Gravity Dam– Foundation Systems	Aditya Krishna Bandi, Dr Shrabony Adhikary
17:00 - 17:10	451	Effect of Soil Backfill Inclination on Seismic Passive Earth Pressure of Non-vertical Retaining Wall	Mr Ritendra Singh, Dr. Ashish Gupta
17:10 - 17:20	483	Site-specific ground response analysis for sites along the proposed Srinagar Metro alignment, Jammu and Kashmir	Dr. F Zahoor, K. S Rao, Dr. N Satyam, A Rashid Bhat, A Bashir, N M Gulzar, S Anjum, Asif J Bhat, F Mir, N ul Hassan, W Ahmad Dar, A ul Amin, T Ahmad, W A Kataria, P U Altaf
17:20 - 17:30	896	Effect of Soil and Foundation Modelling on Design of Tall RC Chimney	Samruddhi Darak, Dr. R Kumar, Dr Shrabony Adhikary
17:30 - 17:40	853	Effect of SSI on Dynamic Behavior of RC Residential Buildings with URM infills under seismic loads	Paulami Das Choudhury, Ashutosh Arya, Dr. Dhiraj Raj
17:40 - 17:50	901	Dynamic Soil-Pile-Structure Interaction Analysis of a 20 Storey Asymmetric Building Frame with Different Pile Configurations in Layered Sand	Radhika Jadhav, Dr Sikandar Rasal, Dr. Hemant Chore
17:50 - 18:00	162	Study of Liquefaction Potential of Ganga Sand through Cyclic Simple Shear Tests	Mr Suresh Maurya, Mr Karthikeyan Mariappan

Day - 2, Technical Session - 4 (19-12-2025; 16:00 – 18:00), Venue: T4-F
(Theme - Earth Retaining Structures, Slope Stability & Landslides)

Time	Paper ID	Paper Title	Authors
16:00 - 16:10	262	Stability Analysis of Overburden Dumps Using Horizontal Drains	Rahul Shende, Mr. Srinivasan V, Dr. Anjan Patel Shahid Maqbool Mir

16:10 - 16:20	264	Slope Mitigation Measures for the protection of Heavy water tank over vulnerable Hill Slope in Guwahati, Assam	Mr. Azhar Mohd, Mr. Harshdeep Singh Mr. Vikas Parmar
16:20 - 16:30	300	Application of Smart Geosynthetics for Structural Health Monitoring of Geo-Structures: An Experimental Study	G Sakthi Vel Dr. Ganesh Kumar S
16:30 - 16:40	333	Unsaturated behaviour of landslide materials in the Lesser Himalayas, India	Mr. Akshat Vashistha, Manish Dewrari, Dr. Srikrishnan Siva Subramanian
16:40 - 16:50	428	Numerical Investigation of Active Earth Pressure under Transient Flow condition in Unsaturated Soil using Finite Element Limit Analysis	Ipsita Mukherjee Dr. Sunil Khuntia
16:50 - 17:00	497	Remote sensing and GIS-based landslide susceptibility mapping for National Highway (NH 6) using the Frequency Ratio method	Mr. Neelkantha Mandal, Mr Badavath Naveen, Dr. Smrutirekha Sahoo
17:00 - 17:10	503	Geotechnical Characterization of Non-Plastic Overburden Dump Material for Slope Stability	Mr. Manas Rathore, Dr Laxmikant Yadu
17:10 - 17:20	749	Numerical Analysis of Micropile for Slope Stabilization: A Comprehensive Investigation	Sachchidanand Kushwaha, Dr Manoj Kannan, Dr. Naveen James
17:20 - 17:30	373	A study on strength and slope stability of soil reinforced with tyre fibre	Gitanjali Deka, Dr Pranjali Barman, Jonali Daimary
17:30 - 17:40	505	Landslide Susceptibility Mapping of Ri-Bhoi District, Meghalaya, India Using Artificial Neural Network	Mr Badavath Naveen, Dr. Smrutirekha Sahoo
17:40 - 17:50	376	Chemical Characterization of Soils For Hydraulic Earth Structures	Dr Sameer Vyas, Dr Neetu Singh, Dr Mandalozu RAJA
17:50 - 18:00	188	Effect of Rainfall Infiltration on Geosynthetic Reinforced Segmental Retaining Walls	Irfan Ibnu, Ms Ayisha J, Athulya T Anil, Ms Anjana Bhasi

Day - 2, Technical Session - 4 (19-12-2025; 16:00 – 18:00), Venue: T4-G

Time	Paper ID	Paper Title	Authors
16:00 - 16:10	89	Impact of permeability co-efficient from various in-situ studies on the design of nearshore Intake structure for a desalination project in the Red Sea coast	Mr. V Ramprakash Mr. D Pankaj Dr. N Sugavaneswaran
16:10 - 16:20	145	Assessment of the Effects of Urban Tunnel Construction on a Nearby Structure	Jyoti Agarwal, Heman Manchanda
16:20 - 16:30	137	A comparative study on liquefaction potential and dynamic response of coal ash with sand	Dr Aparna Shrivastava, Prof. Ajanta Sachan
16:30 - 16:40	122	Resilient Modulus and Permanent Deformation Response of Unsaturated High Plasticity Compacted Clay under Long term Dynamic Loading	Mr. Soumik Majumder, Prof. Ajanta Sachan
16:40 - 16:50	329	Evaluation Of Shear Strength Parameters Of Dredged Marine Sediments Reinforced With Coir Geotextiles	Mr. Sreejith P, Dr. Vandana Sreedharan
16:50 - 17:00	238	Performance evaluation of PVD improved soft soil on drainage efficiency and stability under embankment loading.	VIDYA BHUSHAN, Dr. Baleshwar Singh

17:00 - 17:10	69	Characterization of Rockfill Material (RFM) Behavior for Pumped Storage Projects Using Large-Scale Cyclic Triaxial Testing Equipment	Uday Bhanu Chakraborty
17:10 - 17:20	454	Impact of Rockfall on Geosynthetic-reinforced soil: Numerical Investigation	Mr. Aman Sharma, Mr. Rohit Anand, Dr. Prasun Halder, Dr. Riya Bhowmik
17:20 - 17:30	75	Effect of vibro-stone column on bearing capacity and liquefaction potential of shallow foundation	Dr. Manendra Singh, Swastik Pant, Piyush Kharayat, Avnish Rana
17:30 - 17:40	20	Compressibility Characteristics of Bentonite Amended Flyash Liners Exposed to Phosphate Contamination	Dr. K.V.N.S Raviteja,
17:40 - 17:50	583	Comparison Of Subsurface Profile Evaluated from Electrical Resistivity Tests and Borehole Investigations	Dr. Dinesh Bishnoi, Prof. S. M. Dasaka
17:50 - 18:00	30	Understanding the triggering of liquefaction in stratified offshore deposits using finite element-based numerical simulations	Dr. Arpit jain, Prof. Satyendra Mittal, Dr. Sanjay Kumar Shukla, Mr. Shivank Shekhar

Day - 2, Technical Session - 4 (19-12-2025; 16:00 – 18:00), Venue: T4-H

Time	Paper ID	Paper Title	Authors
16:00 - 16:10	897	Field Scale Study of Energy Pile Foundation in Soft Sensitive Clay	Arvind Kumar Tiwari, Dr. Habibollah Sadeghi, Professor Rao Martand Singh
16:10 - 16:20	309	Assessment of Consolidation Characteristics of Clayey Soil Mixed from Nalanda region with Sand and Fly Ash for Geotechnical Applications	Mr. Prakash Kumar, Mr. Shailesh Kumar Yadav, Dr Ramakrishna Bag
16:20 - 16:30	103	Cushion dependent performance of disconnected piled raft system: a systematic parametric study using finite element method	Shruti S. Raut, Dr. Prasun Halder,
16:30 - 16:40	522	Enhancing Ground Stability with High Strength Geogrid as Basal Reinforcement: Innovative Ground Improvement Solution – A Case Study	Dr. Anand Hulagabali, Pramod Kishore Karpe, Kalpana Nallewar, Dr. Ritwik Nandi
16:40 - 16:50	680	Microtremor-based bedrock depth estimation: A case study from Noida city, India	Mr. Pankaj Kundu, Dr. Anindya Pain, Dr. Anoopsingh Chandel, Dr. LAL HRUAIKIMA
16:50 - 17:00	887	Sustainability of Highway Structures Related to Heavy Rainfall and Flooding	Mr. Shahrokh Bagli, Mr Suraj Vedpathak
17:00 - 17:10	176	Subsea Pipeline Lateral Buckling Analysis using Probabilistic Frictional Properties of Seabed	Dr. Mainak Majumder, Mr Abhijit Kulkarni, Mr. Abhishek Joshi
17:10 - 17:20	854	Correlation of Load–Settlement Characteristics from Static and Dynamic Pile Load Test	Mr. Subodh Karamkar, Dr Shrabony Adhikary
17:20 - 17:30	700	Influence of particle characteristics on dynamic behaviour of sands	Mr Shubham Sharma, Dr. Naveen James
17:30 - 17:40	88	Numerical Analysis of Subgrade soil Stabilization Using Terrasil and Recycled Concrete Aggregates by IITPAVE Software	Mr. Vishwanath Hugar, Dr. Vikas Gingine
17:40 - 17:50	263	Elasto-plastic models for impact force determination and contact mechanics related to rockfall: A systematic review	Mr. Ashish Goswami, Mr. Aman Sharma, Dr. Prasun Halder, Dr. Riya Bhowmik

17:50 - 18:00	236	Soil Dynamics and Geotechnical Earthquake Engineering	Mr. Aman Mishra, Dr Laxmikant Yadu, Dr Shrabony Adhikary, Kishan Kumar
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Day - 3, Technical Session - 5 (20-12-2025; 14:30 – 16:10), Venue: T5-A

(Theme - Ground Improvement Techniques & Geosynthetics)

Time	Paper ID	Paper Title	Authors
14:30 - 14:40	377	Effect Of Fungi-Biopolymer Stabilisation on Shear Modulus and Damping of Sandy Soil	Dr. Smitha Sivadasan, Dr. S M Viswanath, Dr. E Salifu, Dr. H Khodadadi Tirkolaei, Dr. A Walter Bruno, Dr. D Gallipoli
14:40 - 14:50	212	Stabilization of Problematic Soil Using Industrial Waste: A Sustainable Approach to Waste Utilization and Ground Improvement	Yogitrika Thakur, Prof. Ravi Kumar Sharma
14:50 - 15:00	275	Effect of Fiber Reinforcement on the Engineering Properties of Expansive Soils	Mr. Omkar Navagire, Ashutosh Mishra, Mr. Srinivasan V and Dr. Anjan Patel
15:00 - 15:10	305	Performance Evaluation of Granular Columns filled with Recycled Brick Aggregates in Soft Clay	Dr. Sanku Konai, Mr. Aditya Raj Gautam, Dr. Sushovan Dutta, Ms. Debaruna Naskar
15:10 - 15:20	306	Stabilization of Black Cotton Soil through Industrial Waste (GGBS) Integration via Microbially Induced Calcium Carbonate Precipitation (MICP) Technique	Abhay Dhorey, Dr. Anjan Patel
15:20 - 15:30	337	Valorization of fly ash and GGBS through Orthophosphoric acid activation for geotechnical applications	Mr. Suresh Prasad Singh, Mr. Govind Kumar Bharti, Mr. M Varaprasad
15:30 - 15:40	382	Assessment of Embodied Carbon in Geosynthetic-Reinforced Flexible Pavements	Mr Mohammad Umar Rasool, Ms Anne Choudhury, Dr. Prasun Halder, Dr. Riya Bhowmik
15:40 - 15:50	388	Effect of Geogrid Inclusion on the Stability Performance of Earth and Rockfill Dams - A Comparative Study	Dr. Muttharam M, Guru Samy R, Deja G
15:50 - 16:00	425	Assessment of Geotechnical Behaviour of Soil Mixtures with Red Mud and Paddy Stubble	Neeraj M, Dr. Lini Dev K
16:00 - 16:10	480	Resilient Modulus of High Plastic Clay Stabilized with Calcium Sulfoaluminate and Ordinary Portland Cement	Pradeep Pandey, Prof. Prabir K. Kolay, Bushra Elsnousi, Vijay Puri

Day - 3, Technical Session - 5 (20-12-2025; 14:30 – 16:10), Venue: T5-B

(Theme - Earth Retaining Structures, Slope Stability & Landslides)

Time	Paper ID	Paper Title	Authors
14:30 - 14:40	523	Slope Stability and Ground Improvement Analysis of Overburden Dump in an Open-Cast Mine Using Fly Ash	Mr. Ankur Abhishek, Dr. Anasua Guharay
14:40 - 14:50	588	Physical and Numerical Modelling of Rainfall-Induced Debris Slides at Laboratory Scale	Manish Dewrari, Dr. Srikrishnan Siva Subramanian
14:50 - 15:00	612	Integrated Analysis of Seepage and Slope Stability in Earthen Dams	Dr. Neha Shrivastava, Ankit Raj Aryan, Deepak Kumar, Kalash Dwivedi, Mahipal Singh
15:00 - 15:10	624	Assessing the Impact of Rainfall Infiltration on Slope Stability Using Limit Equilibrium Methods: A Parametric Study	Ms Nama Sai Dhruthi, Mr. Ramesh Kesavaram, Dr. Chandrasekaran S S



15:10 - 15:20	637	Mitigation of Deep-Seated Failures for MSE Walls Through Vertical Pile Inclusion	Saikat Kuili, Tulika Rani, Prof. Ravi S. Jakka
15:20 - 15:30	640	Numerical Analysis of Slope Stability Using Jute Geotextile-Reinforced Sand over Soft Clay	Rimjhim Ghosh, Dr. Pronab Roy
15:30 - 15:40	774	Analysis of rock slope stability for infrastructure development in hilly regions	Saurav Kumar Singh, Satyam Dwivedi, Dr. Vikas Pratap Singh
15:40 - 15:50	792	A Study on Critical Hydraulic Gradient of Fine Silty Sand Deposit of Hooghly River with Random Fiber Reinforcement	Dr P Basu, Dr. S Mukherjee, Mr. Rajkumar Banerjee, Mr. Shivam Purkayastha
15:50 - 16:00	841	Static And Seismic Stability of Reinforced Earth Wall with Marginal Backfills	Mr Abhishek Yadav, Vedant Shukla, Dr. H Venkateswarlu
16:00 - 16:10	701	Microstructural and Mechanical Behaviour of Landslide Soil Treated with Kaolinite, Nano Silica, and Recron 3s fibre	Dr. Jyothi D N, Dr Vinod B R, Pushpa K

Day - 3, Technical Session - 5 (20-12-2025; 14:30 – 16:20), Venue: T5-C

Time	Paper ID	Paper Title	Authors
14:30 - 14:40	629	Evaluation Of Drainage Characteristics of Granular Subbase Material	Ms Sreelakshmi K V Dr G V Ramana Dr Vishnu R
14:40 - 14:50	708	Effect of Drainage Techniques on the Performance of Airfield Pavements	Dr Ravishankar S, Mr Yogeshwar S Dr G V Ramana
14:50 - 15:00	729	Rainfall and Temperature-Induced Suction Variations in Unsaturated Railway Substructures	Ms. Annapurna B Balulmath, Dr. Ashutosh Kumar Dr Bande Giridhar Rajesh
15:00 - 15:10	858	Geochemical Stabilization of Coastal Subgrade Soil with Geopolymeric Slag and Rice Husk Ash for Pavements	Dr. Shriram Marathe, Prof. Arun Kumar Bhat Prof. Srinath Shetty
15:10 - 15:20	683	A Critical Comparison of Haul Road Design Approaches: Emphasis on Indian Mining Standards	Megha Santhosh, Dr G V Ramana Dr Vishnu R
15:20 - 15:30	625	Effect of Polypropylene Fiber Reinforcement on Unconfined Compressive Strength of Soil from Sela Pass, Tawang under Freeze-thaw cycles	Chukhu Tagar Dr. Ajanta Kalita Dr. Arindam Dey
15:30 - 15:40	160	Development of a cost-effective maintenance and rehabilitation techniques for Airport Pavement Management	Hamid Noori and Prof Raju Sarkar
15:50 - 16:00	542	Slope Stability Assessment for Highway Cut Slopes in Konkan Region	Mr. Kanak Gohil Dr. Harikumar M Ms. Sahana Mr. Rudresh Naik
16:00 - 16:10	733	Pressure settlement behaviour of reinforced copper mine tailing	Dr. Ravi Kant Mittal Mr. Vijay Kumar Dr. Shilpi Garg
16:10 - 16:20	436	Geotechnical Approaches to mitigate the Environmental Impact of Textile Waste – A Review	Mrs. Nirali Hasilkar Dr Hasan Rangwala

Day - 3, Technical Session - 5 (20-12-2025; 14:30 – 16:10), Venue: T5-D

(Theme - Sustainable Materials)

Time	Paper ID	Paper Title	Authors
14:30 - 14:40	707	Sustainable Alternatives to Cement Pavers Using Soil with Kaolinite-Rich Geopolymer Composites	Dr. Jyothi D N, Dr Vinod B R, Pushpa K, Dr Rashmi H R
14:40 - 14:50	828	Experimental Study on Mechanical Characterization of Fibre-Reinforced Fly ash blended with Laterite soil and Lime for application in Highway Embankments and Subgrade	Mr. Shishir Chore, Mr. Ashish Kishore, Vipendra Singh Jhinkwan, Dr. Jagbir Singh
14:50 - 15:00	840	Multiscale Assessment of Red Mud for Geotechnical Use: A Critical Review	Mr. Sourabh Pateriya, Dr. Hasthi Venkateswarlu
15:00 - 15:10	635	Valorisation of Dimensional Stone Processing Industry Wastes in Geotechnical Applications: A Systematic Literature Review	Jagdish Lohar, Dr. Neha Shrivastava, Mahipal Singh
15:10 - 15:20	464	Review on Geopolymerization method for stabilization/solidification of Contaminated Soil	Mr. Neeraj Sharma, Dr. Sudhir Arora, Dr. Sudheer Kumar Jala
15:20 - 15:30	249	Sustainable Stabilization of Expansive Soil with Fly Ash, GGBS, and Agricultural Waste	Vijay Kumar, Dr. Jaskiran Sobti
15:30 - 15:40	240	Industrial wastes towards a sustainable Civilization: A critical review	Mr. Debjyoti Pal, Dr. Arghadeep Biswas
15:40 - 15:50	142	Effect of Biopolymer Stabilization on Strength and Permeability Behaviour of Soil: A State of Art Review	Mr. Pankaj Kumar, Dr. Swaraj Chowdhury
15:50 - 16:00	465	Durability Performance of Concrete Incorporating Rice Husk Ash and Sugarcane Bagasse Ash as Sustainable Cement Replacements	Neha Bhardwaj, Dr Senthil Kasilingam
16:00 - 16:10	504	Impact of high heat on Alkali-Activated GGBS-RHA Geopolymer Composites for Sustainable Material of Low Volume Road	Ms. Pooja Verma, Dr. Jitendra singh Yadav and Prof. Dr. Suresh Kumar Tiwari

Day - 3, Technical Session - 5 (20-12-2025; 14:30 – 16:10), Venue: T5-E

(Theme - Physical & Numerical Modeling and AI&ML)

Time	Paper ID	Paper Title	Authors
14:30 - 14:40	127	Numerical Modelling of Axial-Lateral Movement of Subsea Pipelines on Soft Clay Seabed	Dr. Mainak Majumder, Mr Abhijit Kulkarni, Mr. Abhishek Joshi
14:40 - 14:50	551	Particle-Scale DEM Analysis of Aspect Ratio and Loading Rate Effects in Unconfined Granular Compression	Mr. P.D. Mahant, Ms. P. Kumari, Dr. B.K. Pandey
14:50 - 15:00	599	Prediction of Soil Liquefaction Potential Using Generated Synthetic Data and Machine Learning Techniques	Mr Jajati Keshari Naik, Dr Pradyut Kumar Muduli, Dr Gopal Charan Behera
15:00 - 15:10	714	Machine learning approach to estimate the Safe bearing Capacity Coarse and Fine-grained soils using In-situ Test Data	Dr. H S Prasanna, Mrs. Shruthi A N, Dr. Unnam Anil, Mr. Chiranth Balappa A R, Ms. Kannika M V
15:10 - 15:20	416	Prediction of Unconfined Compressive Strength of Stabilized Soil using Machine Learning and Neural Networks	Shraddha Sharma, Ajay Pratap Singh Rathor, Dr. Deepak Bhatia, Dr Ajay Bindlish

15:20 - 15:30	521	Seismic Analysis of Structure Having Steel Plate Shear Walls with Response Spectrum Method	Er. Surinder Jassal
15:30 - 15:40	205	Seismic Ground-Motion Modeling Using Regression and Ensemble Learning Methods	Mr. Sahil Thakur, Ms. Vishakha Kumari, Prof. Ravi Kumar Sharma
15:40 - 15:50	113	Prediction Of Liquefaction Using Artificial Neural Network	Mr. Jaydeep Dey, Mr. Utpal Kumar Nath and Mr. Jayanta Kumar Dey
15:50 - 16:00	711	Predictive Modeling of Soil Compaction Characteristics Using Fundamental Soil Index Properties	Neha Raj, S Selvakumar and Prof Kasinathan Muthukkumaran
16:00 - 16:10	664	Advancing Viscous Debris Flow Simulation: An Integrated HBP-SPH Framework Validated Through Experimental and Field Studies	Mr. Nikhil Kumar Pandey, Dr. Neelima Satyam

Day - 3, Technical Session - 5 (20-12-2025; 14:30 – 16:10), Venue: T5-F
(Theme - Soil Dynamics and Soil Structure Interaction)

Time	Paper ID	Paper Title	Authors
14:30 - 14:40	252	Comparative Machine Learning Analysis for Predicting Liquefaction-Induced Lateral Spreading in Seismic Regions	Mr. Dilip Kumar, Dr. Sunita Kumari, Dr. Rajiv Kumar
14:40 - 14:50	498	Dynamic Stability Analysis of Bamboo Grid Reinforced Slopes Under Seismic Excitations	Mr. Rasmiranjan Samal, Dr. Smrutirekha Sahoo
14:50 - 15:00	538	Seismic Performance of Piled Raft Foundation in Overconsolidated Clay for High-Rise Structures	Dr Diptesh Chanda, Dr. Chaidul Haque Chaudhuri
15:00 - 15:10	540	Vibrations Induced In Ground Due To Piling - A field study	Dr. Unni Kartha G, Ms Rajalakshmi T R, Ajil Jaleel, Ashwin Krishna, Aswin Anilkumar, Gopikrishnan P S
15:10 - 15:20	615	Comparison of Performance of Combined Piled-Raft Foundation with Conventional Pile Group Foundation in a Layered Soil Profile under Pseudo-static Loading	Mr. Rajat Banik, Dr. Rajib Sarkar
15:20 - 15:30	657	Seismic Performance of Batter Piles in a Sandy Slope: Effects of Strong Ground Motion Parameters	Mr Shankar Kumar, Dr. Rajib Sarkar, Dr Lohitkumar Nainegali
15:30 - 15:40	744	Pre and post liquefaction characteristics of Waste Foundry Sand: An experimental approach	Sayak Sengupta, Dr Adyasha Swayamsiddha Amanta
15:40 - 15:50	150	Calibration study of UBC3D-PLM model for medium dense Nevada 120 sand	Mr Kaustav Das, Mr Shiladitya Mandal, Mr Abhipriya Halder, Prof Kaushik Bandyopadhyay, Dr. Sibapriya Mukherjee
15:50 - 16:00	28	A state-of-the-art review on vibration isolation using barriers	Miss Ankita Mazumdar, Dr. Debjit Bhowmik
16:00 - 16:10	219	Seismic Behaviour of combined piled raft foundation in liquefiable soil	Nabanita Saha, DR Diptesh Chanda and Prof. (Dr.) Rajib Saha

Day - 1, Poster Presentation - 1 (18-12-2025; 14:30)

Venue: In front of AKAM Lecture Complex

S.No	Paper ID	Paper Title	Authors
1	62	Experimental Studies on Laterally Loaded Pile in Sandy Soil	Mr Saurabh Gwasikoti, Dr. Hemant Chore, Mr. Nitesh Thakur
2	536	Effect of Design Parameters on the Behaviour of Helical Pile Groups Embedded in Cohesive and Cohesionless Soils: A Review	Shivanchal Mishra, Dr. Jitendra singh Yadav, Prof. Ashwani Jain
3	768	Modelling Afforestation's Impact on Soil Organic Carbon Sequestration in Jaisalmer's Degraded Lands Using RothC and ML	Ms Janhavi Yadav, Mr Hira Lal Yadav
4	864	Sustainable Soil Stabilization Using Waste Material: A review	Pawan Yadav, Prof. Arvind Kumar Agnihotri
5	91	Industrial By-Products as Sustainable Backfills for Mechanically Stabilized Earth Walls: A Review	Musaib Nazir, Dr. Manjeet Bansal
6	115	A comprehensive review of numerical techniques for slope stability analysis	Abhimanyu Rana, Shubham Kumar, Dr. Kala Venkata Uday
7	118	Numerical Assessment of Slope Stability Reinforced with Piles under Dynamic Loading at the Crest	Mr. Pankaj Gupta, Dr. Siddharth Mehndiratta
8	120	Performance Based Design of Quay Wall in accordance with Eurocodes	Pushpa K, Dr Prasad S K, Nanjundaswamy P
9	223	Analysis of waterfront reinforced soil walls under the simultaneous effects of seismic and wave loading: A Critical Review	Mr Rahul Verma, Dr Kaustav Chatterjee
10	288	Stability Enhancement of Square Footing resting on Sloping Ground using Geogrids	Mr. Rajesh Deb, Malaya Chetia
11	213	Environmental Concerns of Using Reclaimed Asphalt Pavement in Geotechnical Engineering	Pravez Alam, Dr Shailja Bawa
12	229	Co-pyrolysis of Agro-Biomass and Industrial By-products for Heavy Metal Remediation in Contaminated Soils: A Review of Mechanisms and Process Parameters	Mr Mritunjay Kumar Yadav, Dr. Prathyusha Jayanthi
13	602	Assessment of Leachate Contamination and Its Environmental Impact in Punjab: A Comprehensive Review	Er. Aditya Kumar Singh, Dr. Mahesh Patel, Mr. Shakeel Ahmad Rather



14	54	A Review on Soil Liquefaction Remediation Using Eggshell Powder: Advances and Insights	Ms. Akshaya Ghalimath
15	102	Green Soil Stabilization- Exploring Bacillus subtilis as a Bio-Cementing Agent through MICP	Dr Rajiv Chauhan, Mr. Akhilesh Naryan Maurya, Mr Aman Kumar, Mr. Amaan Ali, Mr. Anurag Yadav
16	206	A numerical study on prevention of embankment failure with granular piles under rapid drawdown condition	Mr. Rajkumar Banerjee, Dr Partha Basu, Dr Sibapriya Mukherjee, Mr. Debaprasad Biswas
17	216	Soil Stabilization Using Chemical Additive: An Experimental Approach	Amandeep Singh, Charnjeet Singh
18	226	Stabilization Of Expansive Soil Using Ferrochrome Slag and Crusher Dust	Bidya Parija, Dr Bandita Paikaray, Dr. Benu Gopal Mohapatra
19	244	Soil improvement using Bamboo fibre	Jyotismita Goswami, Dr Arup Bhattacharjee
20	245	A Comprehensive Review of Unsaturated Soil Reinforced Using Natural and Synthetic Fibers	Vijay Kumar, Dr. Jaskiran Sobti
21	248	Soil Improvement Using CKD and RHA	Bornil Tamuli, Nabanita Daimary, Dr Arup Bhattacharjee
22	294	Influence of Freeze–Thaw Cycles on the Engineering Properties of Fine-Grained Soils: A Systematic Review	Ms Mehak Waseem, Dr. Prasun Halde
23	329	Evaluation Of Shear Strength Parameters of Dredged Marine Sediments Reinforced with Coir Geotextiles	Mr. Sreejith P, Dr. Vandana Sreedharan
24	128	Guar Gum Biopolymer-Stabilized Lithomargic Soil for Sustainable Pavement Subgrades	Prof. Arun Kumar Bhat, Dr. Shriram Marathe, Prof. Srinath Shetty
25	858	Geochemical Stabilization of Coastal Subgrade Soil with Geopolymeric Slag and Rice Husk Ash for Pavements	Dr. Shriram Marathe, Prof. Arun Kumar Bhat, Prof. Srinath Shetty
26	882	A Comparative Study of SVM and ANN machine learning Models for Prediction of Unconfined Compressive Strength of Soil: Review	Ms. Preeti Nainwad, Dr Sariput . M Nawghare
27	265	Analysis of An Underground Tunnel in Various Conditions	Mohit Majumdar, Dr. Arghadeep Biswas

28	478	Stability Assessment of Gravity Retaining Wall under Static and Seismic Conditions and its Stability Improvement through Ground Anchoring Technique	Ms Khushboo Uniyal, Prof. Amit Srivastava, Mrs Reshmita Roy, Dr. Nikhil Garg
29	617	Engineering Performance of GGBS-Stabilized Soils under Carbonation Curing: An Experimental Approach	Shuaib Bashir Mir, Dr. Mubashir Aziz, Dr. Mazhar Syed, Mr. Mahtab Alam
30	667	Experimental Investigation of Water Content and Entrainment Effects on Granular Flow Deposition: Implications for Landslide Hazard Mitigation	Mr. Nikhil Kumar Pandey, Dr. Neelima Satyam

Day - 2, Poster Presentation - 2 (19-12-2025; 14:00)

Venue: In front of AKAM Lecture Complex

S.No	Paper ID	Paper Title	Authors
1	164	A review on Eco-Piles: Methods Transforming Industrial and Agricultural Waste into Soil Reinforcement Solutions	Sahil Bhatia, Prof. Arvind Kumar Agnihotri
2	367	Influence of Natural Zeolite on Strength Behaviour of Cemented Lateritic Soil	Jonali Daimary, Santosh Basumatary, Prakash Basumatary, Nikita Iswary, Pranjal Dutta, Prayashi Das
3	370	A Review on Soil Stabilization Using Biochar, Bamboo Ash And Microbes	Dr.Ch. Sudharani, Ms. Sri Vaishnavi Vinjamuri
4	397	Enhancement of Geotechnical Characteristics of Clayey Soil Using Lime and Stone Dust	Bhaskar Jyoti Medhi, Pema Yangchin, Gargi Bharadwaj
5	445	Sustainable Ground Improvement Using Polypropylene Fibers in Soil Stabilization	Mr Humaib Nasir, Mr Abusah Prince, Ms Mandeep Kaur
6	479	Durability Studies of Surface Modified Coir Geotextiles- A Review	Slomo Anna Daniel, Basil Jaimon
7	508	Geotechnical Properties of Cement-Treated Fly Ash-Foundry Sand Mix.	Mr. Suresh Prasad Singh, Mr. Sambit Bohidar, Ms. Srutakirti Sahoo
8	534	A Comprehensive Review of Indian Codes and Practices on Soil Stabilization	Mr. S Suresh, Mr. Ajeyo Mukherjee, Dr. Sayantan Chakraborty, Dr. Sarah Mariam Abraham, Dr. Ujwalkumar Patil
9	550	Geotechnical evaluation of sodium alginate-treated soil under simulated marine confining pressures	Pratheeba V, Dr. Evangelin Ramani Sujatha
10	561	Critical Appraisal on the Efficacy of Stone Columns in Enhancing the Load-Bearing Capacity of Black Cotton Soil	Mr Shiva Prasad Sri Ramoju, Prof Arif Ali Baig Moghal



11	581	Engineering Behavior of Expansive Soils Stabilized with Agricultural and Industrial Pozzolanic Materials: A Review	Mr. Addala Surya Manikantha, D.Koteswara Rao, Dr. Murali Krishna K.V.S. G
12	613	Effect of GGBS and lime as an admixture on Black cotton soil	Pooja Patel, Sasmita Sahoo
13	619	Effect Of Baryte Mine Powder and Sodium Lignosulfonate on Expansive Soil Properties	Gnana Prasanna G, Harish Jattum
14	670	Numerical Investigation of Stone Column Reinforcement in Layered Fly Ash Fills Using PLAXIS 3D	Mr Mayank Sharma, Dr. Kunjari Mog, Mr Abhinandan Thakur
15	674	Biomass-derived Hydrogels as a Stabilizer for Improving Expansive Soil	Mr. Pralaya Malik, Dr. P Sriram Karthick Raja
16	693	Waste Tyres to Engineering Materials: A Review of Tyre-Derived Aggregates Application in Geotechnics	Dr Jayapal Jayarajan, Sudhir Kumar
17	710	Stabilization of Weak Expansive Soil Using Copper Slag: A Review	Mr. Dilip Yadav, Shalinee Shukla, Kumar Kamal Kishor
18	715	Three-dimensional FEM analysis on the performance of stone column groups in soft Clay	Pooja Bhatia
19	757	Experimental Study on the Geotechnical Enhancement of Damodar River Clay Using Geotextile Reinforcement	Mr. Aihik Mahinder, Mr. Amit Kotal, Dr. Shovan Roy
20	842	Performance of Silty Soil Reinforced with Natural Fibres	Astha Tripathi, Dr. Hasthi Venkateswarlu
21	855	Potential Benefits of Recycled Sand Over Natural Sand in Reinforced Soil Structures	Vedant Shukla, Dr. Hasthi Venkateswarlu
22	60	From Waste to Strength: A Review on Mechanical Behavior of Rice Husk Ash in the Construction Practices	Mr Bikiran Baishya, Dr Senthil Kasilingam
23	225	Development of Design and Stability Charts for Gravity Retaining Walls on Slopes	Ruchika Thakur and Koushik Pandit
24	46	Variation of strain localization patterns in cylindrical clay specimen using polar and cartesian coordinate systems	Brijesh Agarwal and Prof. Ajanta Sachan
25	891	Interpretation of Plate Load Test on Clayey Soils Treated Using Vibro Stone Columns for Large Size Foundation	Jaimin Vaidya and Dr. Anurag chafale



26	54	A Review on Soil Liquefaction Remediation Using Eggshell Powder: Advances and Insights	Ms. Akshaya Ghalimath
27	628	Microstructural and Geotechnical Behaviour of Expansive Soil Treated with Alumina Mine Ore Waste	Mr. Mani Mahesh and Professor R.K. Srivastava
28	190	Use Of Flyashand Micptechnique For Improving Strength In Expansive Soil	Virupakshi Lalitha, Thokalapudi Suresh and Dr.Ch. Sudharani
29	847	Shear strength characteristics of typical Soil	Mr Palani Kumar A, Mr. Sreehari T Nair, Mr Shahid Noor, Dr. Manish Gupta and Dr Chitra R
30	554	Seismic Performance of Embankments on Soft Soil Improved with OSC and ESC: A Numerical Study	Er. V. Kumar Ms. S. Kumari Ms. A. Kongalla Dr. B.K. Pandey

Day - 2, Poster Presentation - 3 (19-12-2025; 16:00)

Venue: In front of AKAM Lecture Complex

S.No	Paper ID	Paper Title	Authors
1	763	Laboratory Studies on Soft Clay Improved by Floating Pervious concrete Stone Columns	Mr Karri Vasu, Dr Sridhar G and Prathamesh Kapile
2	241	Shear Strength Characteristics of a Composite Blend of Copper Slag, Rice Husk Ash, and Lime	Dr. Kuldeep Sharma, Prof. Arvind Kumar Agnihotri and Dr. Rajiv Kumar
3	271	Assessing the Efficiency of the Innovative Premix Technique in Improving the Effectiveness of Microbial-Induced Calcite Precipitation (MICP)	Mr. Vikas Rawat and Dr. Neelima Satyam
4	297	Comprehensive Characterization and Fly Ash Stabilization of Iron Ore Tailings for Geotechnical Applications	Mr. Rohit Vyas and Dr. Neelima Satyam
5	300	Application of Smart Geosynthetics for Structural Health Monitoring of Geo-Structures: An Experimental Study	G Sakthi Vel and Dr. Ganesh Kumar S
6	338	Response of Piled-Raft Foundations to Surface Explosions: A Parametric Study	Mr. Rahul Kumar, Dr. Vinay Kumar Chandaluri and Mr. Shashank Bhatnagar
7	401	Engineering Properties of Recycled Sand from Construction and Demolition Waste	Prof. C.N.V Satyanarayana Reddy, Mr. Ronanki Sai Chandu and Mr. Sambana Sridhar
8	417	Influence of Salinity on the strength gain of binder-stabilized marine clay	Amrutha V, Rejin Raj and Dr. Vandana Sreedharan



9	448	Utilization of Coal Bottom Ash for Soil Stabilization: A Sustainable Waste Management Approach – A Review	Mr Humaib Nasir and Dr Davinder Singh
10	584	Triaxial Shear Behavior of Fine-Grained Soils under Static and Dynamic Compaction	Jayanta kumar das, Dr. Binu Sharma
11	856	Structural Health Monitoring of Geo-InfraStructures: A Comprehensive State-of-the-Art Review	Sarath Rajeev and Dr. Ganesh Kumar S
12	504	Impact of high heat on Alkali-Activated GGBS-RHA Geopolymer Composites for Sustainable Material of Low Volume Road	Ms. Pooja Verma, Dr. Jitendra singh Yadav and Prof. Dr. Suresh Kumar Tiwari
13	477	Lab Scale Study on Electrokinetic Remediation of Oil Contaminated Soil	Leander Vaz, Anushree Tiwary, Yadavalli Bhavya Sri, Sarvadnya Pai, Aditya Mishra and Dr. Harikumar M
14	616	Assessing the Feasibility of Steel Slag-Amended Soil Cover Systems for Stable Cover Slopes in Municipal Solid Waste Landfills	Mr. Akshay Nimase, Dr Mahesh Endait and Dr Swati Patil
15	160	Development of a cost-effective maintenance and rehabilitation techniques for Airport Pavement Management	Hamid Noori and Prof Raju Sarkar
16	711	Predictive Modeling of Soil Compaction Characteristics Using Fundamental Soil Index Properties	Neha Raj, S Selvakumar and Prof Kasinathan Muthukkumaran
17	113	Prediction Of Liquefaction Using Artificial Neural Network	Mr. Jaydeep Dey, Mr. Utpal Kumar Nath and Mr. Jayanta Kumar Dey
18	867	Global Practices of Railway Drainage Systems with Emphasis on India and Emerging Innovations	Durgesh Kumar Legha, Dr Dinesh Gundavaram and Gargi Mishra
19	102	Green Soil Stabilization- Exploring Bacillus subtilis as a Bio-Cementing Agent through MICP	Dr Rajiv Chauhan, Mr. Akhilesh Naryan Maurya, Mr Aman Kumar, Mr. Amaan Ali and Mr. Anurag Yadav
20	462	Study of Biochar Amendment on Physicochemical Properties of Contaminated Soil: A Geo-Engineering Solution for Mitigation Stubble Burning	Akashdeep Singh and Dr Rajiv Chauhan
21	164	A review on Eco-Piles: Methods Transforming Industrial and Agricultural Waste into Soil Reinforcement Solutions	Sahil Bhatia and Prof. Arvind Kumar Agnihotri
22	166	Analysis Of The Axial Load Capacity Of Helical Piles Using Finite Element Method	Mr Rajat Thakur, Dr Arnab Debnath and Dr Roop Kishor
23	758	Assessing Municipal Wastewater for Industrial Contaminants in Proximity to an Industrial Area	Mr. Ashwani Kumar, Prof. Mahender Choudhary and Dr. Amit Kumar



24	290	Performance evaluation of geogrid reinforced rubber-sand mixture with soil cap layer	Mr. Aravindhan A, Mr. Jithin K M and Renjitha Mary Varghese
25	219	Seismic Behaviour of combined piled raft foundation in liquefiable soil	Nabanita Saha, DR Diptesh Chanda and Prof. (Dr.) Rajib Saha
26	756	Geotechnical Evaluation of Bentonite-Amended Laterite Soil for Sustainable Landfill Liners	Tapash Barman, Dr. Sunil B.M. and Dr Lohitkumar Nainegali
27	527	Landslide Susceptibility Mapping Using Slope Units and XGBoost in Chamoli District, Indian Himalayas	Dr. Kunal Gupta and Dr. Neelima Satyam
28	627	A Refined Approach to Landslide Hazard Analysis Using Monte Carlo Simulation and Soil Thickness Mapping Techniques	Dr. Kunal Gupta and Dr. Neelima Satyam
29	7	A Study on Using Agar Biopolymer for Soil Stabilization with the Help of an Enhanced Flume Apparatus	Dr Jiji Krishnan, Mr Anandu Krishnan, Mr Dhyan G Gopal, Mr Rahul R, Mr Gurudharman D, Miss Vismaya Sminesh, Miss Rasha Rasheed, Miss Risha Rasheed and Miss Devika B
30	675	Finite Element Study on Lateral Response of Monopiles on Sloped Ground Under One-Way Cyclic Loading	Mr Jegadeesh Kumar T Dr Deendayal Rathod

Day - 3, Poster Presentation - 4 (20-12-2025; 14:30)

Venue: In front of AKAM Lecture Complex

S.No	Paper ID	Paper Title	Authors
1	83	A Scenario-Based Deterministic Seismic Hazard Approach for the Surat Region	Ms. Aarohi Bhadiyadra, Dr Tejaskumar Thaker
2	607	PMCC: A High-Performance Solution for Modern Concrete Challenges	Er. Jai Rai, Dr. Shashi Kant Sharma
3	235	Assessment of MICP Efficiency for Early Strength Enhancement of Municipal Solid Incineration Bottom Ash	Neeraj kumar, Prof. Arvind Kumar Agnihotri
4	465	Durability Performance of Concrete Incorporating Rice Husk Ash and Sugarcane Bagasse Ash as Sustainable Cement Replacements	Neha Bhardwaj, Dr Senthil Kasilingam
5	123	Cyclic Response of High Plasticity Compacted Clay under High Intensity Earthquake Loading	Mr. Soumik Majumder, Prof. Ajanta Sachan



6	138	Effect of amplitude and frequency on pore pressure and energy dissipation response of coal ash	Dr Aparna Shrivastava, Prof. Ajanta Sachan
7	699	Shear strength optimization of MSW incineration ashes using RSM and ANOVA	Ms S Kaveri, Mohit Aggarwal, Dr. K.V.N.S Raviteja
8	900	Slope Stability Analysis of an Embankment: A case Study	Dr. Pradeep Kumar P
9	898	Analysis, Design, and Cost Estimation of a Building with Varying Column Configurations	Mr. Harsh Tripathi, Prof. SP Singh, Dr Kanish Kapoor
10	894	Evaluation of Axial Compression Capacity of Helical Pile Resting in Cohesionless Soil Using Plaxis 3D	Dr. Jitendra singh Yadav, Dr Poonam Shekhawat
11	750	A Research on the Structural Performance of Concrete Modified with Foundry Sand and Polypropylene Fibers	Ms. Aaqila Mubarik, Mr. Ajay Vikram
12	545	A Study on Determination of Granular Sub-Base Thickness in Flexible road Pavement by Limiting Interface Stress-Strain Criteria	Mr. Sourav Paul, Ms. Shreya Pal, Dr. Partha Pratim Biswas, Dr. Manoj Kumar Sahis
13	526	Slope Stability Assessment of Tailings using Finite Element Modelling with Different Internal Drainage Configurations	Prithu Raj, Dr. Narendra Kumar Samadhiya
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