CURRICULUM VITAE

- Name: **Prof. Dr. Aneel Kumar**
- Corresponding/Postal Address: Pro-Vice Chancellor, Mehran University of Engineering & Technology, Jamshoro, Pakistan
- Contact Number: +92-333-2777945
- Email: aneel.kumar@faculty.muet.edu.pk
- Google Scholar: Aneel Kumar - Google Scholar

Executive Summary

I have been a part of Mehran University of Engineering and Technology Jamshoro since 1998. Currently, I hold the position of Pro-Vice Chancellor of Mehran UET, since March 2023, and have been serving as a Professor in the Department of Civil Engineering since December 2010. Over the years, I have taken on various administrative roles, including Dean Faculty of Science, Technology and Humanities from 2020-2023, Chairman of the Department of Civil Engineering from 2017-2020, Co-Chairman from 2013-2017, and Inspector Colleges from 2012-2017. In addition, I have been actively involved in different statutory and legislative bodies such as the Senate, Finance Planning Committee (FPC), Academic Council, Board of Studies (BOS), Board of Faculty (BOF), Advanced Studies and Research Board (ASRB), Examination Vigilance Committee (EVC), University Development Working Party (UDWP), Sports Broad Committee, and the Pre-Admission Test Committee (PATCO). I am also a member of the Steering Committee of the Mehran University Journal of Engineering and Technology Jamshoro, where I have served on the Research & Editorial Board and worked on the Panel of Referees / Experts for the evaluation/review of research papers for publication. In addition, I have played an active role in the Pakistan Engineering Council (PEC), serving as a member of the Governing Body, Engineering Professional Development Committee, Engineering Accreditation Board, Academia Industrial Linkage Committee, and Engineering Curriculum and Review Development Committee.

My academic credentials include a B.E. in Civil Engineering from Mehran University of Engineering and Technology, an M.E. in Geotechnical and Geo-Environmental Engineering from the Asian Institute of Technology Thailand, and a Ph.D. in Civil Engineering from Tokyo Institute of Technology, Japan. I have been the recipient of the HEC-AIT Scholarship and the MEXT Scholarship of Japan to pursue my M.E. and Ph.D. studies, respectively. Additionally, I have chaired two International Conferences on Sustainable Development in Civil Engineering.

My research interests primarily focus on Sub Soil Investigations, Design of Shallow and Deep Foundations, Mechanical and Chemical Soil Stabilization, Contamination Migration through Porous Media, and Eco-Friendly and Sustainable Construction Materials. I have authored over 100 research publications, which have been published in various reputed International and National Journals and Conferences. I am also a reviewer of several reputable International Journals. As a result of my expertise, I have been invited to deliver lectures and presentations related to my specialization in countries such as the United States of America, Germany, Spain, the Philippines, Thailand, Indonesia, Malaysia, Japan, and China. I have supervised many M.E and Ph.D. students for their research projects in Civil Engineering, and my ongoing research is focused on geopolymer concrete, innovative soil stabilization techniques, geotechnical modeling of coastal areas of the Arabian sea, and sustainable civil engineering materials.

Besides my academic and administrative roles, I have also been significantly involved in the industry as a Geotechnical Expert. I have designed the foundations of several civil engineering projects and conducted geotechnical investigations of various locations throughout the Sindh Province of Pakistan. Some of the recent soil investigations and foundation design projects I have worked on include the Tomb of Sultan Jam Nizamuddin Makli, 6 MGD Filter Plant at Hussainabad Water Works Hyderabad, 220 KV Grid Stations Jhampir, Gharo, Mirpurkhas, Aral Wah Head Regulator Sehwan, *etc*.

OBJECTIVES:

- To share expertise and knowledge with team members
- To work on innovative concepts
- To serve the nation

POTENTIALS:

- Sound academic background
- Teaching and research skills
- Supervising and handling Civil Engineering Projects

ACADEMIC QUALIFICATIONS:

2005-2008 Doctor of Philosophy (Civil Engineering/Geotechnical Engineering)
Tokyo Institute of Technology, Japan

2003- 2005 Master of Engineering (Geotechnical and Geoenvironmental Engineering)
Asian Institute of Technology, Thailand

1995-1998 Post Graduate Diploma (Civil Engineering)
Mehran University of Engineering and Technology, Pakistan

1990-1995 Bachelor of Engineering (Civil Engineering)
Mehran University of Engineering and Technology, Pakistan

FIELD OF SPECIALIZATION:

- Sustainable Construction Materials
- Geotechnical Engineering
- Geoenvironmental Engineering
- Field and Laboratory Testing of Soil
- Sub Soil Investigations
- Design of Shallow and Deep Foundations
- Concrete Technology

RESEARCH INTERESTS:

- Sustainable Construction Materials
- Conventional Soil Mechanics
- Mechanical and Chemical Soil Stabilization
- Shallow and Deep Foundation Design

- Contamination Migration through Porous Media
- Soil Remediation Techniques
- Sub Soil Investigations
- Geotechnical Numerical Modelling
- Concrete Repairing Materials
- Concrete Technology

PROFESSIONAL AFFILIATIONS:

- Member Pakistan Engineering Council (Civil-16299)
- Member Pakistan Geotechnical Society

AWARDS/SCHOLARSHIPS/FUNDING:

- MEXT (Japan) Scholarship for Doing Ph.D at Tokyo Institute of Technology, Japan
- HEC-AIT Scholarship for Doing M.E. at Asian Institute of Technology, Thailand
- Ministry of Education China Funding for Training Program of the Forum of Civil Engineering Education in Universities of Developing Countries at Hunan University, Chang Sha, Hunan, China (September 10 to September 30 2009)
- Advanced Technical Training on Geotechnical Equipment by Asian Center for Soil Improvement and Geosynthetics at Asian Institute of Technology, Thailand. (November 15- December 17 2010)
- HEC Approved Supervisor

EMPLOYMENT HISTORY:

31-12-2010 to date Professor, Department of Civil Engineering, Mehran University of Engineering and Technology, Pakistan

01-10-2009 to 31-12-2010 Associate Professor, Department of Civil Engineering, Mehran University of Engineering and Technology, Pakistan

14-12-2000 to 01-10-2009 Assistant Professor, Department of Civil Engineering, Mehran University of Engineering and Technology, Pakistan

05-10-1998 to 13-12-2000 Demonstrator, Department of Civil Engineering, Mehran University of Engineering and Technology, Pakistan

01-10-1997 to 05-10-1998 Project Engineer, M/S Pritam Das & Co.
Duties: Supervision of Pre-Stressed Bridge Projects from Site Investigation to the Pouring of Deck Slab, which Includes Boring, Concreting, Stressing, and Administration at Site

02-01-1995 to 01-10-1997 Site Engineer, M/S Pritam Das & Co.

Duties: Supervision of Pre-Stressed Bridge Projects from Site Investigation to the Pouring of Deck Slab, which Includes Boring, Concreting, Stressing, and Quantity Surveying

TEACHING ASSIGNMENTS:

Subjects Taught at Postgraduate Level (ME + PhD)

- Advanced Soil Mechanics and Laboratory Testing
- Advanced Foundation Engineering
- Ground Improvement Techniques
- Soil Instrumentation and Testing
- Repair, Maintenance and Strengthening of Concrete
- Advanced Civil Engineering Materials
- Analysis and Design of Bridges
- Design and Construction of Structural Foundations
- Geotechnical Site Investigations
- Soil Stabilization Techniques
- Rock Mechanics and Foundation Engineering

Subjects Taught at Undergraduate Level (BE)

- Soil Mechanics
- Geotechnical Engineering
- Foundation Engineering
- Concrete Technology
- Civil Engineering Materials
- Strength of Materials
- Theory of Structures
- Plain and Reinforced Concrete
- Reinforced and Pre-stressed Concrete

ADMINISTRATIVE ASSIGNMENTS:

March 15 2023 to Date

Pro-Vice Chancellor, Main Campus Mehran University of Engineering and Technology, Jamshoro, Pakistan

August 18 2020 to March 15 2023

Dean, Faculty of Science, Technology and Humanities, Mehran University of Engineering and Technology, Jamshoro, Pakistan

January 05, 2017 to August 27 2020

Chairman, Department of Civil Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan

June 04, 2013 to January 04 2017

Co-Chairman, Department of Civil Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan

July, 2016 to August 2020

Convener (PATCO), Pre-Admission Test Committee of Mehran University of Engineering and Technology, Jamshoro, Pakistan

January 01, 2012 to April 04, 2017

Inspector College for Affiliated Colleges of Mehran University of Engineering and Technology, Jamshoro, Pakistan

May 2010 to November 21, 2013

Coordinator Employees Welfare Cell of Mehran University of Engineering and Technology, Jamshoro, Pakistan

EXTRA CURRICULAR ACTIVITIES/RESPONSIBILITIES

- Member, Governing Body Pakistan Engineering Council (2021-2024)
- Member, Engineering Accreditation Board Pakistan Engineering Council (2021-2024)
- Member, Engineering Curriculum Review and Development Committee (ECRDC) on Civil and Allied Engineering Disciplines (2021-2024)
- Member, Engineering Professional Development Committee Pakistan Engineering Council (2021-2024)
- Member, Think Tank Water Resources Development Committee Pakistan Engineering Council (2021-2024)
- Deputy Convener, Academia Industrial Linkage Committee Pakistan Engineering Council (2021-2023)
- Expert Member, Inquiry Team of Prime Minster Inspection Commission (PMIC) for Inspection of National Highway and other Roads Constructed by National Highway Authority (NHA) and Communication and Works (C&W) Department of Sindh, Pakistan (2009-2010)
- Senior Vice President, Mehran University Alumina Association (2018-2022)
- General Secretary, Mehran University Alumina Association (2010-2012)
- Member Executive Body, Mehran University Alumina Association (2012-2018)

- Exchange Scientist Under Core University Program Funded by Japanese Society for the Promotion of Science (JSPS) (2008-2009)
- Conference Chair, International Conference on Sustainable Development in Civil Engineering, 23-25 November 2017, Mehran University of Engineering and Technology, Jamshoro
- Conference Chair, 2nd International Conference on Sustainable Development in Civil Engineering, 05-07 December 2019, Mehran University of Engineering and Technology, Jamshoro
- Master of Ceremony of International Symposium, Exhibition, and Short Course on Geotechnical and Geosynthetics Engineering: Challenges and Opportunities on Climate Change 7 to 9 December 2010, Bangkok, Thailand
- Event Chair, International Seminar and Workshop on Design of Building, 22 November 2017, Jointly Organized by Mehran University of Engineering and Technology Jamshoro and Asian Institute of Technology, Thailand
- Member Organizing Committee for Organizing 15th South East Asian Geotechnical Conference, 22-26 November 2004, Bangkok, Thailand

REFERENCE:

- Dr. Jiro Takemura

  Associate Professor, Department of Civil Engineering

  Tokyo Institute of Technology, Tokyo, Japan

  Email: takemura.j.aa@m.titech.ac.jp

- Prof. Dennis. T. Bergado

  Geotechnical Specialist, Blue Line Extension Project

  Mass Rapid Transit Authority (MRTA), Thailand

  Adjunct Professor, Grifth University, Brisbane, Australia

  Email: dbergado@gmail.com

- Dr. Ulrich Glawe

  Chief Engineering Geologist

  Lai Chau Hydroelectirc Project

  Nam Nhun Town, Nam Nhun District

  Lai Chau Province, Vietnam

  Email: enggeoconsult@gmail.com

PHD PRODUCED:

1. Muhammad Rehan Hakro (2022): Behavior of Shallow Foundation on Expansive Shale Soil of Jamshoro Using Numerical Modelling
2. Suhail Zaffar (2022): Stabilization of Jamshoro Shale with Organic Material Ashes
3. Hemu Karira (2023): Final Seminar Delivered): Effect of Single and Twin Excavation on Adjacent Deep Foundations and Multi-Story Building
4. Raghib Abbas Shah (2023): Numerical Analysis of Settlement and Bearing Capacity of Coastal Soils of Sindh

PHD THESIS (IN PROGRESS):

5. Asim Shaikh: Performance Characterization of Pyrolyzed Industrial Plastic Waste and Crum Rubber Waste as Hot Mix Asphalt Modifier
6. Maroosha Larik: Experimental Investigation on the Optimum Use of Organic Ashes and Indus River Sand to Produce Aerated Concrete
7. Abdul Munim Sahito: Cement Stabilized Rammed Earth: A Resistant and Sustainable Building Construction Material
8. Lalchand Marwari: Evaluating the Liquefaction Potential and Developing Remedial Measures for Foundations in Coastal Areas of Sindh

ME PRODUCED:

1. Imtiaz Ali Khushik (2012): Tensile and Flexural Strength of Silica Fume Made Concrete
2. Suhail Zaffar (2012): Strength Variation in Structure Concrete Made with Coarse Aggregate Available in the Vicinity of Karachi
3. Muhammad Ashraf Baloch (2013): Optimization of Mix Design by Using Water Reducing Admixture (Ultrta Plas 300)
4. Waheed Mangi (2014): Analysis of a High-Rise Building against External Explosion
5. Abrar Hazoor (2015): Calculation of PCU in Heterogeneous Traffic System in Pakistan
6. Anwar Hazoor (2015): Estimation of Model Shift of New BRT in Quetta
7. Syed Raghib Abbas Shah (2015): Strengthening of RCC Beams by Using Additional Main Bars and Shear Stirrups with Locally Available Bonding Materials
8. Tarique Ahmed Memon (2016): Effect of Crumb Rubber on Macro Texture of Asphalt Surfacing
9. Rahmatullah Korejo (2016): Stabilization of Jamshoro Soil with Cement
10. Amir Khan Mastoi (2016): Numerical Analysis of Silty Soil Blended with Granular Soil for Use in Highway Subgrade
11. Naila Qadir (2016): Study of Compressive Strength of RCC Beams Damaged by Fire

12. Ayaz Ahmed Lashari (2016): Study of Rigid Bond Admixture Sprayed Steel on the Strength of RCC Slabs

13. Bashir Ahmed Solangi (2016): Effects of Dampness on Building Structures

14. Aijaz Hussain Memon (2016): Re-Strengthening of RCC Beams by Using Extra Main Bars with Locally Available Bonding Material

15. Shankar Lal Meghwar (2016): Human Scalp Hair as Fiber Reinforcement in Cement Concrete

16. Waqas Akhtar (2017): Performance Evaluation of Control and Modified Asphaltic Course (M-9 Construction)

17. Atta Mehroz (2017): Travel Response towards Street Crimes and Security Issues on Mode Choice Decisions

18. Ali Murtaza (2017): Correlations between California Bearing Ratio and Index Properties of Jamshoro Soil

19. Ashok Kumar (2017): Stabilization of Jamshoro Soil with Lime and Cement

20. Asghar Ali (2018): Design of Wearing Course Using SBS Modified Bitumen

21. Shabana Ghanghro (2018): Date Palm Fiber as Geo Reinforcement For Shale

22. Ahsan Channa (2018): Effect of Organic Waste on Soil Permeability

23. Saqib Almani (2018): Repair of Structural Concrete in Tension by Using Expanmortar

24. Raqeeb Memon (2018): Conventional Characteristics of Bitumen Before and After Short Term Aging

25. Suhai Ahmed Abbasi (2018): Utilization of Waster Glass and Silica Fume in Concrete

26. Masroor Ali Jatoi (2018): Study of R.C.C Slab Made with Lakhra Fly Ash while Replacing Cement

27. Razaque Memon (2018): Effect of Jute Fiber on the Strength of A-4 Soils

28. Anees Raja Siddiqui (2018): Strength Behavior of Bentonite Clay Reinforced with Bagasse Fiber

29. Waqar Ahmed Unar (2018): Effect of Jute Fiber on Strength and Swelling Behavior of Bentonite

30. Izat Ali Sahito (2018): Estimation of Shear Strength parameters of Compacted soil by Dynamic Cone Penetrometer (DCP)

31. Manoj Kumar (2018): Effect of Stabilizers Applying Technique on the Strength Characteristics of the Soils

32. Lalchand Marwari (2018): Evaluation of Compaction Characteristics of Soils Using Dynamic Cone Penetrometer

33. Hemu Karira (2019): Correlation between Chemical and Index Properties of Soils of Hyderabad Region

34. Nadia Malik (2019): strength characterization of Soorh modified cement mortar

35. Nizakat Ali (2019): Effect of Soil Stabilizers on Consolidation Characteristics of Remolded Clay

36. Gul Zaman (2019): Geotechnical Properties of Soil-Crete with Shale

37. Vishan Das (2019): Effect of Soil Stabilizers on Strength Characteristics of Bricks

38. Tajik Mustafa Shah (2019): Experimental and Numerical Investigations into the Behavior of Local Brick Masonry

39. Ali Aizaz Dayo (2019): Mechanical Properties of Concrete Due to Partial Replacement of Sand with Sugarcane Bagasse Ash

40. Ammar Noor (2019): Strength Behavior of Clay Soil Reinforced with Waste Plastic Bottles Strips

41. Jazeb Qadir Shah (2019): Design and Evaluation of Hot Mix Asphalt Using Brick Dust and Fly Ash as a Mineral Filler Replacement

42. Umair Hussain (2019): An Evaluation of Corn Cob Ash on the Strength Parameters of Bentonite Clay

43. Sarfraz Ali Abro (2019): Performance of Mechanically Stabilized Earth (MSE) Wall Reinforced with Crumb True Rubber

44. Ghulam Saba Fatima (2020): Buckling Behavior of Piles Reinforced with Fiber Reinforced Soilcrete in Liquefiable Soil

45. Khawar Khalid (2020): Performance of Mechanically Stabilized Earth Embankment Reinforced with Crumb Tire Rubber

46. Chhanve Zohra (2020): Correlations between Relative Density and Compaction Test Parameter

47. Prih Mahar Laila (2020): Effect of Date Palm Fiber on the Engineering Properties of Expansive Jamshoro Shale

48. Moiz Ali (2020): Geotechnical Properties of Silty Sand Reinforced with Poly Propylene Woven Bags

49. Sandeep Kumar (2021): The effect of Water Quality on Fresh and Hardened Properties of Concrete

50. Sabir Ali (2021): Properties of Concrete Using Sugarcane Bagasse Ash and Metakaolin as Partial Replacement of Cement

51. Israr Ahmed (2021): Effect of Fly Ash and Silica Fume on Mechanical Properties of Roller Compacted Concrete

52. Mohsin Ali (2021): Effect of Polyester Fiber on High Strength Concrete

53. Zubair Ahmed Shaikh (2021): Investigation on Selected Properties of Concrete Blended with Maize Cob Ash

54. Shabir Ahmed (2021): Self Curing Concrete Using PEG-400 with Conventional Concrete

55. Farhan Ahmed (2021): Alkali-Silica Reactivity of Aggregates in Hyderabad-Jamshoro Region

56. Abdul Wahab Abro (2021): Investigation on Mechanical Properties of Concrete Blended with Groundnut Shell Ash

57. Nazim Nizar Memon (2021): Effect of Saline Water on CBR and Swelling Characteristics of Soil

58. Shazeb Khuwaja (2021): Self Curing Concrete Using Polyvinyl Alcohol

59. Aquib Qadir Tunio (2021): Effect of PET Plastic Fibers on Mechanical Properties of Concrete

60. Adnan Memon (2021): Repairing of Concrete by Flow-Able Micro Concrete

61. Asif Raza (2022): Mechanical Performance of Roller-Compacted concrete Utilizing Silica Fume as Cementitious Material and Waste Glass Powder as Fine Aggregate Constitute

62. Subash Kumar (2022): Mechanical Performance of Roller-Compacted concrete Utilizing Fly Ash as Cementitious Materials and Waste Glass Powder as Fine Aggregate Constitute

63. Ali Raza (2022): Effect of Silica Fume & Fly Ash Cementitious Material on Properties of Autoclave Aerated Concrete

64. Wazeer Hussain (2022): Effect of Bagasse Ash as Binder & Indus River Sand as Fine Aggregate Replacement Material on Properties of Autoclaved Concrete

65. Farhana Mukhtiar (2022) : Investigating the Effects of Marble Power on fly Ash Based One-Part Geopolymer Mortar

66. Shahbaz Ali (2022): Effect of Silica Fume & Waste Glass Powder on the Properties of Fiber Reinforced Concrete

67. Mir Murtaza (2022): Effect of Eggshell Power on The Mechanical Properties of Engineered Cementitious Composites Using Different Size Polypropylene Fibres

68. Sidra Qadir (2022): Shear Strength Characteristics of Expansive Soil Stabilized with Silica Fume & Metakaolin Based Geopolymers

69. Arabella Sharaf (2022): Compaction and Swelling Characteristics of Expansive Soil with Silca Fume and Metakaolin Based Geo-Polymer

70. Aqsa Murad (2022): Parametric Study on the Compressive Strength of Fly Ash and Metakaolin Based Geopolymer

71. Mohsin Ali (2022): Effect of Fly Ash as Binder and Indus River Sand as Fine Aggregate Replacement on Selected Properties of Auto Clave Aerated Concrete.

72. Tooba Akbar (2022): Effect of Bagasse Ash as Cement Replacement and Coal Bottom Ash as Fine Aggregate Replacement on Properties of Concrete

73. Shuban Ali (2022): Effect of Silica Fume & Indus River Sand on Selected Properties of Autoclaved Aerated Concrete

74. Adil Rahujo (2022): Effect of Sugarcane Bagasse Ash on Geotechnical Properties of A-6 Soil

75. Sanaullah (2022): Properties of Concrete using Coal Bottom Ash of Mach as Partial Replacement of Sand

76. Saeed Nazeem (2022): Alkali Silica Reaction of Crushed Aggregate of Quetta Region Balochistan

77. Saqib Ali (2022): Experimental Investigation of Alkali Silica Reactivity Potential of Coarse Aggregates of Khairpur Region

78. Muhammad Fahim (2022): Experimental Investigation of Properties of Roller Compacted Concrete Made with Marble Powder as Cement Replacement Material

79. Shahnawaz (2022): Soil Reinforcement with Polypropylene Fibers

80. Ali Zulqarnain (2022): Behaviour of Raft Foundation on Liquefiable Riverbed Sand Reinforced with Jet-Grouted Columns

81. Samad Shaikh (2022): Compaction and Swelling Characteristics of Jamshoro Soil Reinforced with Bagasse Fiber

82. Jawed Kamal Ansari (2023): Impacts of Adding Coconut Fibers on the Workability and Mechanical Properties of Concrete

83. Khair Muhammad (2023): Numerical Modelling of the Behaviour of Shallow Foundations on the Liquefiable Soil Treated with Jet-Grouted Columns

84. Waseem Ahmed (2023): Assessing Strength and Durability Characteristics of Bricks of Hyderabad & Mirpurkhas Regions Utilizing Agro-Industrial Waste

85. Adarsh Dodai (2023): Effect of Rice Husk Ash and Indus River Sand on Properties of Autoclave Aerated Concrete.

86. Saeed Ahmed (2023): Effect of Bagasse Fiber on the Compaction Characteristics of Clayey Soil

87. Najibullah (2023): Effect of Agro Industrial Waste on Brick Strength Characteristics at Sukkur and Nawabshah Regions

88. Hassan Raza (2023): Effect of Bholari Hill Sand/Binder and Water/Binder Ratio on Properties of One-Part Geopolymer Mortar

89. Mohsan Ali Chajjro (2023): Developing One-Part Ceramic Waste Powder-Based Geopolymer Mix

90. Hasham Qureshi (2023): Effect of Indus River Sand Sand/Binder and Water/Binder Ratio on Properties of One-Part Geopolymer Mortar

91. Zeeshan Ahmed Abbasi (2023): Effect of Sugar and Jaggary on Setting Time, Workability and Compressive Strength of Concrete.

92. Muhammad Azam (2024): Strength and Durability of Burnt Clay Bricks Utilizing Rice Husk Ash (RHA) and Sugarcane Bagasse Ash (SBA)

93. Manzeb Shaikh (2024): Effect of Coal Bottom Ash on Mechanical Properties of Engineered Cementitious Composites

94. Mahapara (2024): Effect of Fly Ash and Ground Granulated Blast Furnace Slag on the Properties of Roller Compacted Concrete

95. Salman Ahmed (2024): Effect of Ground Granulated Blast Furnace Slag and Rice Husk Ash on the Properties of Roller Compacted Concrete

96. Siraj Aziz (2024): Influence of Cement Kiln Dust (CKD) on the Properties of Concrete

97. Muhammad Shahbaz (2024): Roller Compacted Concrete Utilizing Rice Husk Ask as Partial Cement Replacement

98. Aneel Kumar (2024): The Effect of Unsupported Deep Excavation on Stability of Adjacent Buildings

KEYNOTE SPEECHES

1. 16th International Conference on Geotechnical Engineering, University of Engineering and Technology (UET), Lahore (07-08 December 2022)

2. 1st International Conference on Climate Change and Recent Trends in Civil Engineering Ghulam Ishaque Khan (GIK) Institute, Topi (12-13 February 2024)

PUBLICATIONS

1. Hemu Karira, Dildar Ali Mangnejo, **Aneel Kumar**, Tauha Hussain Ali, and Syed Naveed Raza Shah: Investigation of Effects of Twin Excavations Effects on Stability of a 20-Storey Building in Sand: 3D Finite Element Approach, Geomechanics and Engineering (Techno Press), Vol. 32, No. 04, pp. 427-443, 25 February 2023. http://dx.doi.org/10.12989/gae.2023.32.4.427
   [Impact Factor 3.201; HJRS Category W]

2. Syed Raghib Abbas Shah, **Aneel Kumar**, Muhammad Auchar Zardari, Tauha Hussain Ali and Riaz Bhanbhro: Numerical Analysis of Settlement of a Piled Raft Foundation on Coastal Soil, Civil Engineering Journal, Vol. 09, No. 02, pp. 319-333 02 February 2023. https://doi.org/10.28991/CEJ-2023-09-02-05
   [Impact Factor 4.1, HJRS Category W]

3. Muhammad Rehan Hakro, **Aneel Kumar**, Zaheer Almani and Syed Raghib Ali Shah: Numerical Modelling of Shallow Foundation on Multi-Layer Soil with varying Stiffness, Jurnal Kejuruteraan Vol. 34, No. 6. pp. 1053-1062, November 2022 http://dx.doi.org/10.17576/jkukm-2022-34(6)-06 **[HJRS Category Y]**

4. Ali Raza Lashari, **Aneel Kumar**, Rabinder Kumar and Samar Hussain Rizvi: Combined Effect of Silica Fume and Fly Ash as Cementitious Material on Strength Characteristics, Embodied Carbon, and Cost of Autoclave Aerated Concrete, .Environmental Science and Pollution Research **(Springer Nature)**, Published online November 17, 2022 http://dx.doi.org/10.1007/s11356-022-24217-9
   [Impact Factor 4.223; HJRS Category W]

5. Hemu Karira, **Aneel Kumar**, Tauha, Hussain Ali, Dildar Ali Mangnejo and Li Yaun: Numerical Investigation of Responses of a Piled Raft to Twin Excavations: Role of Sand Density, Geomechanics and Engineering (Techno Press), Vol. 31, No. 01, pp. 53-69, October 10 2022. http://dx.doi.org/10.12989/gae.2022.31.1.053
   [Impact Factor 3.201; HJRS Category W]

6. Abdul Munim Sahito, Zaheer Ahmed Almani, **Aneel Kumar**, Rehan Hakro, Abdul Mohaymin Sahito; 1-g Physical Modelling of Shallow Foundation Treated with Polypropylene-Reinforced Soil-Cement Columns in Liquefiable Soil, Mehran University Research Journal of Engineering and Technology, Vol. 41, No. 04, pp. 14-26, October 2022 https://doi.org/10.22581/muet1982.2204.02 **[HJRS Category X]**

7. Herda Yati Binti Katman, Wong, Jee Khai, Nariandas Bheel, Mehmet Serkan Kigriz, **Aneel Kumar** and Omrane Benjeddou: Fabrication and Characterization of Cement-Based Hybrid Concrete Containing Coir Fiber for Advancing the Concrete Construction, Buildings (MDPI), Vol. 12, Paper No. 1450, Published online September 14, 2022 [http://dx.doi.org/10.3390/buildings12091450]
   [Impact Factor 2.648; HJRS Category W]

8. Herda Yati Binti Katman, Wong, Jee Khai, Nariandas Bheel, Mehmet Serkan Kigriz, Aneel Kumar, Jamal Khatib and Omrane Benjeddou: Workability, Strength, Modulus of Elasticity, and Permeability Feature of Wheat Straw Ash-Incorporated Hydraulic

Cement Concrete, Buildings (MDPI), Vol. 12, Paper No. 1363, Published online September 02, 2022 [http://dx.doi.org/10.3390/buildings12091363]
[Impact Factor 2.648; HJRS Category W]

9. Ashfaque Ahmed Jhatial, Aneel Kumar, Naraindas Bheel, Samiullah Sohu and Wan Inn Goh: Assessing the Sustainability and Cost-Effectiveness of Concrete Incorporating Various Fineness of Eggshell Powder as Supplementary Cementitious Material, Environmental Science and Pollution Research **(Springer Nature)**, Published online July 05, 2022 [https://doi.org/10.1007/s11356-022-21635-7]
[Impact Factor 4.223; HJRS Category W]

10. Hemu Karira, **Aneel Kumar**, Tauha Hussain Ali, Dildar Ali Mangnejo and Naeem Mangi: A Parametric Study of Settlement and Load Transfer Mechanism of Piled Raft due to Adjacent Excavation Using 3D Finite Element Analysis, Geomechanics and Engineering (Techno Press), Vol. 30, No. 02, pp. 1367-1376, July 25 2022.
[https://doi.org/10.12989/gae.2022.30.2.169]
[Impact Factor 3.201; HJRS Category W]

11. Muhammad Rehan Hakro, **Aneel Kumar**, Zaheer Ahmed Almani, Agha Faisal Habib, Muhammad Auchar Zardari: Numerical Modelling of Shallow Foundations on Expansive Shale:A Case Study of Jamshoro, Pakistan, Baltica, Vol 35, No. 1, June 20 2022, pp. 80-88 [https://doi.org/10.5200/baltica.2022.1.7] **[HJRS Category Y]**

12. Muhammad Rehan Hakro, **Aneel Kumar**, Mujahid Ali , Agha Faisal Habib, Afonso R. G. de Azevedo, Roman Fediuk, Mohanad Muayad Sabri Sabri, Abdelatif Salmi and Youssef Ahmed Awad: Numerical Analysis of Shallow Foundations with Varying Loading and Soil Conditions, Buildings (MDPI), Vol. 12, Paper No. 693, Published online May 23, 2022 [https://doi.org/10.3390/buildings12050693]
[Impact Factor 2.648; HJRS Category W]

13. Nizakat Ali, Aneel Kumar and Manoj Kumar: Compaction and consolidation characteristics of chemically treated expansive soil of Jamshoro, Mehran University Research Journal of Engineering and Technology, Vol. 41, No. 02, pp. 1-11, April, 2022 [http://dx.doi.org/10.22581/muet1982.2202.01] **[HJRS Category Y]**

14. Aqsa Murad, Mohsin Ali, **Aneel Kumar**, Sadaqat Ullah Khan and Tehmina Ayub: Parametric Study on the Compressive Strength of Fly Ash Based Geopolymer Concrete, 12th International Civil Engineering Conference (ICEC-2022) "Integrating Technology in Civil Engineering" March 20, 2022, Karachi, Pakistan

15. Mohsin Ali, **Aneel Kumar**, Rabindar Kumar, Aqsa Murad: Utilization of Fly ash and Indus River Sand in Autoclaved Aerated Concrete, 12th International Civil Engineering Conference (ICEC-2022) "Integrating Technology in Civil Engineering" March 20, 2022, Karachi, Pakistan

16. Suhail Zaffar, **Aneel Kumar**, Naeem Aziz Memon, Rabinder Kumar, and Abdullah Saand: Investigating Optimum Conditions for Developing Pozzolanic Ashes from Organic Wastes as Cement Replacing Materials, Materials (MDPI), Vol. 15 Paper No. 2320, Published online March 21, 2022 [https://doi.org/10.3390/ma15062320]
[Impact Factor 3.623; HJRS Category W]

17. Muhammad Rehan Hakro, Aneel Kumar, Zaheer Almani, Mujahid Ali, Fahid Aslam, Roman Fediuk, Sergey Klyuev, Alexander Klyuev, and Linar Sabitov: Numerical Analysis of Piled-Raft Foundations on Multi-Layer Soil Considering Settlement and Swelling, Buildings (MDPI), Vol. 03, Paper No. 356, Published online March 15, 2022 [https://doi.org/10.3390/buildings12030356]
[Impact Factor 2.648; HJRS Category W]

18. Muhammad Rehan Hakro, **Aneel Kumar**, Zaheer Almani, Mujahid Ali, Roman Fediuk, Sergey Klyuev, Alexander Klyuev, Linar Sabitov and Dina Fathi: Compaction Characteristics and Permeability of Expansive Shale Stabilized with Locally Produced Waste Materials, **Materials** (MDPI), Vol. 15 Paper No. 2138, Published online March 14, 2022 [https://doi.org/10.3390/ma15062138]
[Impact Factor 3.623; HJRS Category W]

19. Shahbaz Ali, Rabindar Kumar, **Aneel Kumar**, Ashfaque Ahmed Jhatial, Shuban Ali: Effect of Silica Fume and Waste Glass Powder On The Properties of Fiber Reinforced Concrete, International Research Journal of Modernization in Engineering Technology and Science, Vol.04, No. 03, pp. 2482-2486, March 2022

20. Shuban Ali, Rabinder Kumar, **Aneel Kumar**, Wazeer Hussain and Mohsin Ali: Effect of Silica Fume and Indus River Sand on Properties of Autoclaved Aerated Concrete, International Research Journal of Modernization in Engineering Technology and Science, Vol.04, No. 03, pp. 991-995, March 2022

21. Tooba Akber, **Aneel Kumar**, Samar Hussain Rizvi, Ali Raza Lashari: Effect of Sugarcane Bagasse Ash as Cement Replacement on Properties of Concrete, International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No. 04, pp. 497-501, March 2022

22. Mir Murtaza, Rabinder Kumar, **Aneel Kumar**, Shuban Ali, Muhammad Hassan: Effect of Eggshell Powder on The Mechanical Properties of Engineered Cementitious Composites Using Different Size Polypropylene Fibers, International Research Journal of Modernization in Engineering Technology and Science, Vol.04, No. 02, pp. 1284-1287, February 2022

23. Syed Raghib Abbas Shah, **Aneel Kumar**, Tauha Hussain Ali, Muhammad Rehan Hakro, Mohammad Achar Zardari: Numerical Modelling of Soil-Nail and Secant Pile In PlAXIS 2D: A Case Study of Tomb of Jam Nizam-Al-Din Samoo, Makkli Thatta, Civil and Environmental Engineering, Vol. 17, No. 02, December 2021. Pp. 706-717

24. Muhammad Rehan Hakro, **Aneel Kumar**, Zaheer Ahmed Almani, Sajjad Ali Mangi and Ashfaque Ahmed Jhatial: Stabilization of Expansive Shale with Marble Dust, Malaysian Construction Research Journal (MCRJ), Vol. 14, No. 03, Pp. 44-56, November 2021. **[HJRS Category Y]**

25. Sanaullah, Samar Hussain Rizvi, **Aneel Kumar**, Saeed Nazeem, Abdul Momeet, Asif Raza, Zafar-Ul-Haq: Properties of Concrete Using Coal Bottom Ash of Machh as Partial Replacement of Sand: International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No. 11, pp. 1386-1396, November 2021

26. Adil Rahujo, **Aneel Kumar**, Zaheer Ahmed Almani: Effect of Sugarcane Bagasse Ash on Geotechnical Properties of A-6 Soil, International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No. 11, pp. 1367-1376, November 2021

27. Ali Raza Lashari, **Aneel Kumar**, Samar Hussain Rizvi, Fahad ul Rehman Abro and Nazim Nisar Memon: Effect of Silica Fume as Cementitious Material on Properties of Autoclave Aerated Concrete, International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No. 11, pp. 1270-1273, November 2021

28. **Aneel Kumar**, Rabinder Kumar, Vishan Das, Ashfaque Ahmed Jhatial, Tauha Hussain Ali: Assessing the Structural Efficiency and Durability of Burnt Clay Bricks Incorporating Fly Ash and Silica Fume as Additives: Construction and Building Materials **(Elsevier),** Vol. 310, Published Online October, 20, 2021, [https://doi.org/10.1016/j.conbuildmat.2021.125233]
[Impact Factor 6.141; HJRS Category W]

29. Naraindas Bheel, T. Tafsirojjaman, Yue Liu, Paul Awoyera, **Aneel Kumar**, and Manthar Ali Keerio: Experimental Study on Engineering Properties of Cement Concrete Reinforced with Nylon and Jute Fibers: Buildings (MDPI), Vol. 11, No. 10, Published Online October, 02, 2021, [https://doi.org/10.3390/buildings11100454]
[Impact Factor 2.648; HJRS Category W]

30. Saeed Nazeem, **Aneel Kumar**, Samar Hussain Rizvi, Mustansar Hussain: Alkali Silica Reaction of Crushed Aggregate of Quetta Region Balochistan, International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No. 10, pp. 578-586, October 2021

31. Subash Kumar, **Aneel Kumar**, Samar Hussain Rizvi, Jahanzeb Ansari, Asif Raza: Effect of Waste Glass Powder on Tensile Strength of Roller Compacted Concrete: International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No. 10, pp. 1287-1294, October 2021

32. Asif Raza, **Aneel Kumar**, Samar Hussain Rizvi, Subash Kumar, Zafar-ul-haq: Mechanical Behavior of Roller Compacted Concrete Using Waste Glass Powder as Fine Aggregate Constituent, International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No. 10, pp. 1282-1286, October 2021

33. Aqsa Murad, **Aneel Kumar** and Mohsin Ali: The way of production of Metakaolin from natural material Soorh for Geopolymer, 3rd International Conference on Chemical Engineering (ICCE2021), Mehran University of Engineering and Technology, Jamshoro, pp. 205-210, September 22-23, 2021

34. Nariandas Bheel, Samiullah Sohu, Ashfaque Ahmed Jhatial, and Nafees Ahmed Memon and **Aneel Kumar**: Combined Effect of Coconut Shell and Sugarcane Bagasse Ashes on the Workability, Mechanical Properties and Embodied Carbon of Concrete, Environmental Science and Pollution Research **(Springer Nature)**, Published online August 21, 2021 [https://doi.org/10.1007/s11356-021-16034-3]
[Impact Factor 4.223; HJRS Category W]

35. **Aneel Kumar**, Nariandas Bheel, Israr Ahmed, Samar Hussain Rizvi, Rabinder Kumar, and Ashfaque Ahmed Jhatial: Effect of Silica Fume and Fly Ash as Cementitious Material on Hardened Properties and Embodied Carbon of Roller Compacted Concrete, Environmental Science and Pollution Research **(Springer Nature)**, Published online August 04, 2021 [https://doi.org/10.1007/s11356-021-15734-0] **[Impact Factor 4.223; HJRS Category W]**

36. **Aneel Kumar**, Rabinder Kumar, Saqib Ali Almani and Ashfaque Ahmed Jhatial: Effect of Shrinkage-Controlled Polymer-Modified Binders (SC-PMB) on the Bond Strength of Repaired Structural Concrete, Innovative Infrastructure Solution **(Springer Nature)**, Published online July 17, 2021 [https://doi.org/10.1007/s41062-021-00545-6] **[HJRS Category X]**

37. Abdullah Sand, Karm Ali, **Aneel Kumar**, Nariandas Bheel and Manthar Ali Keerio: Effect of Metakaolin Developed from Natural Material Soorh on Fresh and Hardened Properties of Self-Compacting Concrete, Innovative Infrastructure Solution **(Springer Nature)**, Published online July 14, 2021
[https://doi.org/10.1007/s41062-021-00534-9] **[HJRS Category X]**

38. Manthar Ali Keerio, Abdullah Sand, **Aneel Kumar**, Nariandas Bheel and Karm Ali: Effect of Local Metakaolin Developed from Natural Material Soorh and Coal Bottom Ash on Fresh, Hardened Properties and Embodied Carbon of Self-Compacting Concrete, Environmental Science and Pollution Research **(Springer Nature)**, Published online June 21, 2021[https://doi.org/10.1007/s11356-021-14960-w]
[Impact Factor 4.223; HJRS Category W]

39. Naraindas Bheel, Montasir Osman Ahmed Ali, Mehmet Serkan Kirgiz, Andre Gustavo de Sousa Galdino and **Aneel Kumar:** Fresh and Mechanical Properties of Concrete Made of Binary Substitution of Millet Husk Ash and Wheat Straw Ash for Cement and Fine Aggregate, Journal of Materials Research and Technology **(Elsevier),** Vol. 13, pp. 872–893, Jul–Aug, 2021 **[Impact Factor 5.289; HJRS Category W]**
[https://doi.org/10.1016/j.jmrt.2021.04.095]

40. Aquib Qadir Tunio, **Aneel Kumar** and Samar Hussain Rizvi: Effect of Pet Plastic Fibers on Mechanical Properties of Concrete: International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No. 06 pp. 1347-1357, June 2021

41. Rabinder Kumar. Nasir Shafiq, **Aneel Kumar** and Ashfaque Ahmed Jhatial: Investigating embodied carbon, mechanical properties, and durability of high-performance concrete using ternary and quaternary blends of metakaolin, nano-silica, and fly ash, Environmental Science and Pollution Research **(Springer Nature)**, Published online April 30, 2021 [https://doi.org/10.1007/s11356-021-13918-2]
[Impact Factor 4.223; HJRS Category W]

42. Farhan Ahmed, **Aneel Kumar**, Samar Hussain Rizvi, Shabir Ahmed and Shahzeb: Alkali-Silica Reactivity of Aggregates in Hyderabad Jamshoro Region: International Research Journal of Modernization in Engineering Technology and Science, Vol.03, No.02 , pp. 686-691, February 2021

43. Shabir Ahmed, **Aneel Kumar**, Samar Hussain Rizvi, Farhan Ahmed, Shahzeb: Early Stage Compressive Strength of Self Curing Concrete Enhanced with Polyethylene Glycol, International Journal for Scientific Research & Development|, Vol. 8, No.12, pp. 158-160, February 2021

44. Ashfaque Ahmed Jhatial, Wan Inn Goh, Touqeer Ali Rind and **Aneel Kumar**: Thermal Performance Simulation of Eco-Friendly Lightweight Foamed Concrete Incorporating Palm Oil Fuel ash and Eggshell Powder Using ABAQUS, Silicon, (**Springer Nature),** Published online January 11, 2021 [https://doi.org/10.1007/s12633-020-00907-2]
[**Impact Factor 2.670; HJRS Category X]**

45. Naraindas Bheel, Manthar Ali Keerio, **Aneel Kumar**, Jam Shahzaib, Zohaib Ali, Mouzzam Ali and Samiullah Sohu: An Investigation on Fresh and Hardened Properties of Concrete Blended with Rice Husk Ash as Cementitious Ingredient and Coal Bottom Ash as Sand Replacement Material, Silicon (**Springer Nature),** Published online January 03, 2021 [https://doi.org/10.1007/s12633-020-00906-3]
[**Impact Factor 2.670; HJRS Category X]**

46. Abdul Wahab Abro, Zubair Hussain Shaikh, Ali Aizaz Dayo, **Aneel Kumar**, Manthar Ali Keerio and Naraindas Bheel: An Investigation on Compressive Strength of Concrete Blended With Groundnut Shell Ash, Neutron, Vol. 20, No. 02, pp 123-123, January 2021.

47. Israr Ahmed, **Aneel Kumar**, Samar Hussain Rizvi, Mohsin Ali, Sabir Ali: Effect of Silica Fume as Partial Replacement of Cement on Compressive Strength of Roller Compacting Concrete, Quest Research Journal, Vol. 18, No. 2, pp. 145–149, Jul–Dec, 2020 **[HJRS Category Y]**

48. Mohsin Ali , **Aneel Kumar**, Samar Hussain Rizvi, Sabir Ali, Israr Ahmed: Effect of Polyester Fiber on Workability Property of High Strength Concrete, Quest Research Journal, Vol. 18, No. 2, pp. 102–108, Jul–Dec, 2020 **[HJRS Category Y]**

49. Sabir Ali, **Aneel Kumar**, Samar Hussain Rizvi, Mohsin Ali, Israr Ahmed: Effect of Sugarcane Bagasse Ash as Partial Cement Replacement on the Compressive Strength of Concrete, Quest Research Journal, Vol. 18, No. 2, pp. 44–49, Jul–Dec, 2020
[HJRS Category Y]

50. Manthar Ali Keerio, Suhail Ahmed Abbasi, **Aneel Kumar** , Naraindas Bheel, Khalil ur Rehaman and Muhammad Tashfeen: Effect of Silica Fume as Cementitious Material and Waste Glass as Fine Aggregate Replacement Constituent on Selected Properties of Concrete, Silicon **(Springer Nature)**, Published online November 06, 2020 [https://doi.org/10.1007/s12633-020-00806-6]
[Impact Factor 2.670; HJRS Category X]

51. Shanker Lal Meghwar, Ghous Bux Khaskheli and **Aneel Kumar**: Human Scalp Hair as Fiber Reinforcement in Cement Concrete, Mehran University Research Journal of Engineering and Technology, Vol. 39, No.2, pp. 443-452, April, 2020
[HJRS Category X]

52. Faisal Iqbal, Kareem Khan, **Aneel Kumar**, Fahad ul Rehman, Sarang Jokhio, Aquib Qadir Tunio: Risks, Challenges, Benefits and Opportunities Associated With Bot Projects in Pakistan: A Case Study on M-9 Motorway Project, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 02, pp. 80-88, December, 2019

53. Ali Aizaz Dayo, **Aneel Kumar**, Anees Raja, Naraindas Bheel, Abdul Wahab Abro and Zubair Hussain Shaikh: Effect of Sugarcane Bagasse Ash as Fine Aggregates on the Flexural Strength of Concrete, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 130-133, December, 2019

54. Mirza Adil Ahmed Mughal, Arshman Ahmed Memon, Doulat Ram Kolhi, Sagar Dodai, Waleed Ahmed Arain, **Aneel Kumar** and Anees Raja: Effects of Sugarcane Bagasse Ash on the Strength Characteristics of Bentonite Clay, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 330-334, December, 2019

55. Prih Laila, **Aneel Kumar** and Rizwan Ali Memon: Effect of Date Palm Fiber on the Engineering Properties of Expansive Jamshoro Shale, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 335-337, December, 2019

56. Nizakat Ali Bahalkani, **Aneel Kumar**, and Agha Faisal Habib Pathan: Effect of Fly Ash on Consolidation Characteristics of Compacted Clay, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 338-343, December, 2019

57. Sarfaraz Ali Abro, Shahbaz Sangrasi, Khawar Latif, **Aneel Kumar** and Zaheer Almani: Effect of Surcharge Load on MSE Wall Reinforced with Tire-Derived Aggregate, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 344-349, December, 2019

58. Ashok Kumar, **Aneel Kumar** and Ghous Bux Khaskheli: Utilization of Cement content for Stabilization of Jamshoro Soil, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 354-358, December, 2019

59. Ammaar Noor Memon, **Aneel Kumar**, Noor Ahmed Memon, Mutahar Ali Amur, and Umair Hussain Memon: Potential of Waste Plastic (PET) Bottles Strips as Reinforcement Material for Clayey Soil, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 359-361, December, 2019

60. Lal Chand Marwari, **Aneel Kumar**, Naeem Aziz Memon, Shankar Lal Meghwar Anees Raja Siddiqui and Anees Ahmed Vighio: Evaluation of Compaction Characteristics of A-7-5 Soil Using Dynamic Cone Penetrometer, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 362-364, December, 2019

61. Moiz Ali, Zaheer Almani, **Aneel Kumar** and Umair Hussain Memon and Nazim Nisar Memon1 Geotechnical Properties of Silty Sand Reinforced with Polypropylene

Woven Bags, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 370-373, December, 2019

62. Aqsa Murad, Muhammad Hassan and **Aneel Kumar**: Seismic Analysis of a High-Rise Building A Case Study, 2nd International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 584-388, December, 2019

63. Tajik Mustafa Shah, **Aneel Kumar**, Syed Naveed Raza Shah, Ashfaque Ahmed Jhatial, Mudasar Hussain Janwery: Evaluation of the Mechanical Behavior of Local Brick Masonry in Pakistan, Engineering, Technology and Applied Science Research Journal, Volume. 09, No. 03, pp. 4298-4300, 2019
[HJRS Category: Y]

64. Ghulam Fatima Saba Shahwani, Zaheer Ahmed Almani, **Aneel Kumar**, Umair Hussain Memon: Buckling Behavior of Piles Reinforced with Fibre Reinforced Soilcrete in Liquefiable Soil, International Journal of Modern Research in Engineering & Management Volume. 02. No. 11, pp. 94-103, November 2019

65. Ali Aizaz Dayo, **Aneel Kumar**, Anees Raja, Naraindas Bheel and Zubair Hussain Shaikh: Use of Sugarcane Bagasse Ash as A Fine Aggregate In Cement Concrete, Engineering Science and Technology International Research Journal, Vol.3, No.3, pp. 8-11, September, 2019

66. Ammaar Noor Memon,, **Aneel Kumar**, Noor Ahmed Memon, Abdul Hafeez Memon, and Mutahar Ali Amur: Stabilization and Reinforcing of Soft Soils with Various Materials Including PET Strips – A Review, International Journal of Modern Research in Engineering & Management Volume. 02. No. 9, pp. 01-04, September 2019

67. Sarfaraz Ali Abro, Zaheer Almani, **Aneel Kumar**, Khawar Khalid and Shahbaz Sangrasi: Performance of MSE Wall Reinforced with Crumb Tire Rubber, Engineering Science and Technology International Research Journal, Volume.03, No.2, pp. 21-254, June 2019

68. Nizakat Ali, **Aneel Kumar** and Agha Faisal Habib Pathan: Effect of Soil Stabilizers on Consolidation Characteristics of Compacted Clay, Engineering Science and Technology International Research Journal, Volume. 03, No.1, pp. 25-28, March 2019

69. Zubair Hussain Shaikh, **Aneel Kumar**,Manthar Ali Kerio, Naraindas Bheel, Ali Aizaz Dayo and Abdul Wahab Abro: Investigation on Selected Properties of Concrete Blended With Maize Cob Ash, 10th International International Civil Engineering Conference (ICEC-2019) "Technological Transformation of Civil Engineering" Karachi, Pakistan, February 23-24, 2019.

70. Khawar Khalid, Zaheer Ahmed Almani, **Aneel Kumar** and Sarfraz Ali Abro: The Effect of Soil Reinforcment with Crum Tyre Rubber on the Strength of Silty Sand, 10th International International Civil Engineering Conference (ICEC-2019) "Technological Transformation of Civil Engineering" Karachi, Pakistan, pp. 168-173, February 23-24, 2019.

71. **Aneel Kumar**, Tauha Hussain Ali and Agha Faisal Habib: Impact of vertical stresses on geotechnical properties of sand, 1st Global Civil Engineering Conference, Kuala Lumpur Malaysia, July 25-28, 2017, [Published In Pradhan B. (eds) GCEC 2017. GCEC 2017. Lecture Notes in Civil Engineering, Vol 9. Springer Nature, Singapore, PP. 1177-1183, 2019] https://doi.org/10.1007/978-981-10-8016-6_82

72. Hemu, **Aneel Kumar**, Anees Raja and Ali Murtaza Phull: Correlations Between Chemical and Index Properties of Hyderabad Region, Civil Engineering Journal, Volume. 04, No. 12, pp. 2821-2839, December 2018 http://dx.doi.org/10.28991/cej-03091201 **[HJRS Category: Y]**

73. **Aneel Kumar**, Tauha Hussain Ali and Agha Faisal Habib: Effect of Length of Steel Fibers on Splitting Tensile Strength of Concrete, International Conference on Advances on Civil and Environmental Engineering, Indonesia, Paper ID 24, October 24-25, 2018

74. Manoj Kumar, **Aneel Kumar**, Naeem Aziz Memon: Effect of Stabilizer Applying Technique on Strength Characteristics of Soil, Engineering Science and Technology International Research Journal, Volume.02, No. 3, pp. 147-150, September, 2018

75. **Aneel Kumar**, Faisal Iqbal, Rizwan Ali Memon and Agha Faisal Pathan,: Tensile and Flexural Strength of Cement Silica Fume Concrete, International Journal of Civil Engineering and Technology (IJCIET), **Scopus Indexed**, Vol. 9, No. 7, pp.390–402, July 2018

76. Anees Raja and **Aneel Kumar**: Use of Bagasse as Natural Fiber for Soil Reinforcement, International Journal of Science Research & Sustainability, Vol.1, No. 1, pp-13 17, 2018

77. Faisal Iqbal, **Aneel Kumar** and Ali Murtaza.: Co-Relationship between California Bearing Ratio and Index Properties of Jamshoro Soil, Mehran University Research Journal of Engineering and Technology, Vol. 37, No.1, pp. 177-190, January, 2018 **[HJRS Category X]**

78. Izat Ali Sahito, **Aneel Kumar,** Ali Murtaza and Naeem Aziz Memon: Estimation of Shear Strength Parameters of A-4 Soil by Dynamic Cone Penetrometer (DCP), 9th International Civil Engineering Conference (ICEC-2017), "Striving Towards Resilient Built Environment", Karachi, Pakistan December 22-23, 2017

79. Nadia Malik and **Aneel Kumar**: Development of an Empirical Co-Relationship between Dynamic Cone Penetrometer (DCP) and Maximum Dry Density (γmax) of Different Soils, International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 02, pp. 01-08, November, 2017

80. Shabana Ghanghro, **Aneel Kumar** and Zaheer Almani: Date Palm Fiber as Geo Reinforcement Material for Shale, International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 08-11, November, 2017

81. Ashok Kumar, **Aneel Kumar** and Ghous Bux Khaskheli: Stabilization of Jamshoro Soil with Lime, International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 17-22, November, 2017

82. Waqas Akhtar, Naeem Aziz Memon, **Aneel Kumar**, Gohar Nadeem and Shakeel Baloch: Comparison of Control and Crumb Rubber Modified Asphalt for Rutting Potential (M.9 Construction), International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 126-130, November, 2017

83. Chhanve Zohra, Preh Laila and **Aneel Kumar**: Correlations between Relative Density and Compaction Test Parameters, International Conference on Sustainable Development in Civil Engineering, Pakistan, Vol. 01, pp. 219-223, November, 2017

84. Faizan ur Rehman, Ali Murtaza Phull, **Aneel Kumar**: To Develop the Correlation between California Bearing Ratio (CBR) and Dynamic Cone Penetration Test (DCPT) for Shale Soil, Conference: 8th International Civil Engineering Congress (ICEC-2016) "Ensuring Technological Advancement through Innovation Based Knowledge Corridor" December 23-24, 2016, Karachi, Pakistan

85. Ali Murtaza Phull, **Aneel Kumar**, Ghous Bux Khaskheli: Correlation of CBR With Index Properties of Shale, 8th International Civil Engineering Congress (ICEC-2016) "Ensuring Technological Advancement through Innovation Based Knowledge Corridor" December 23-24, 2016, Karachi, Pakistan

86. **Aneel Kumar**, Khasheli, G. B. and Korejo, R.: Improving CBR Value and Swelling Potential of Jamshoro Soil by Cement, Proc. of the 7th Regional Symposium on Infrastructure Development, Bangkok, Thailand, Vol 20 No. 7, pp. 158-162, November, 2015

87. **Aneel Kumar**., Takemura, J. and Pathan, A. F. H: Influence of Acoustic Excitation on Effluent Concentration of Zinc from Clayey Soil, International Journal of Innovative and Exploring Engineering (IJITEE) Vol. 3, No. 3, pp. 20-23, August 2013

88. Salahuddin, Marri, A., **Aneel Kumar**: Isotropic Compression Behavior of Fiber Reinforced Cemented Sand, Mehran University Research Journal of Engineering and Technology, Vol. 32, No.3, pp. 381-390, July, 2013 **[HJRS Category X]**

89. **Aneel Kumar,** Khaskheli, G.B, and Phul A. M.: Effect of Marble Powder on Various Geotechnical Properties of Jamshoro Soil, Proc. Third International Conference on Construction in Developing Countries (ICCIDC-III), Bangkok, Thailand, pp. 695-700, July, 2012

90. **Aneel Kumar** and Khaskheli, G.B: Effect of Cement Content on Unconfined Compressive Strength of Jamshoro Soil, Proc. International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change (SGCC), Bangkok, Thailand, pp. 169-175, June, 2012

91. S. Artidteang, Bergado, D.T., Saowapakpiboon, J., Teerachaikulpanich, N. and **Aneel Kumar:** Enhancement of Efficiency of Prefabricated Vertical Drains Using Surcharge, Vacuum and Heat Preloading, Geosynthetics International, ICE Virtual

Library, Vol. 18, No.1, pp. 35-47, February 2011 [https://doi.org/10.1680/gein.2011.18.1.35]
[Impact Factor 1.474; HJRS Category W]

92. **Aneel Kumar,** Koide, T. and Takemura, J.: Influence of Acoustic Excitation on Sorption and Desorption of Zinc from Clayey Soils, Proc. the 14th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Hong Kong, China, Paper No. 302, May 2011

93. **Aneel Kumar**., Khaskheli, G. B. and Sanjrani, A. L.: Silica Fume Made Concrete in Tension, Mehran University Research Journal of Engineering and Technology, Vol. 29, No.3, pp. 507-514, July, 2010 **[HJRS Category X]**

94. **Aneel Kumar** and Takemura, J: Effects of Acoustics on Desorption of Zinc from Illite and Silica, Proc. International Conference Environmental Science and Technology, Bangkok, Thailand, pp. 99-103, April, 2010, Reproduced in International Journal of Environmental Science and Development, V0l. 01, N0. 03, pp. 260-263, August 2010 http://dx.doi.org/10.7763/IJESD.2010.V1.50 **[HJRS Category Y]**

95. Khaskheli, G. B., **Aneel Kumar** and Sanjrani, A. L.: Silica Fume Concrete in Flexure, Mehran University Research Journal of Engineering and Technology, Vol. 29, No.3, pp. 499-506, July, 2010 **[HJRS Category X]**

96. Khaskheli, G. B., **Aneel Kumar** and Khandhar, S. N.: Study of Superplasticized Cement Made Concrete Beams, Mehran University Research Journal of Engineering and Technology, Vol. 29, No.2, pp. 369-376, April, 2010 **[HJRS Category X]**

97. Laghari, R., Khaskheli, G. B. and **Aneel Kumar**: Repair of RCC Beams with Local Available Material, Mehran University Research Journal of Engineering and Technology, Vol. 29, No.2, pp. 357-368, April, 2010 **[HJRS Category X]**

98. Khaskheli, G. B., **Aneel Kumar** and Hussain S: Tensile Strength of Structural Concrete Repaired with Hi-Bond Polymer Modified Mortar, Mehran University Research Journal of Engineering and Technology, Vol. 28, No.4, pp. 509-516, October, 2009 **[HJRS Category X]**

99. **Aneel Kumar** and Takemura, J: Determination of Zinc Partition Coefficients of Clay Sand Mixtures from Column and Batch Tests, Geotechnical Engineering, Journal of South East Asian Geotechnical Society, Vol. 40, No.3, pp. 171-183, September, 2009 [**Scopus Indexed/ ISI Indexed; HJRS Category Y**]

100. **Aneel Kumar,** Khaskehli, G. B. and Khoso, I: Compressive Strength of Structural Concrete Made with Locally Available Coarse Aggregates, Mehran University Research Journal of Engineering and Technology, Vol. 28, No.3, pp. 405-412, July, 2009 **[HJRS Category X]**

101. Memon, G. H., Khaskehli, G. B., **Aneel Kumar**: Flexural Strength of Structural Concrete Repaired with HBPMM Cement, Mehran University Research Journal of Engineering and Technology, Vol. 28, No.3, pp. 413-420, July, 2009
[HJRS Category X]

102. Khaskehli, G. B., **Aneel Kumar** and Shaikh, A: Compressive Strength of Different Brands of Cement (OPC) in Province of Sindh, Mehran University Research Journal of Engineering and Technology, Vol. 28, No.2, pp. 223-238, April, 2009 **[HJRS Category X]**

103. Khaskehli, G. B., **Aneel Kumar** and Umrani, A. N: Optimization of Mix Design by Using Superplasticized Cement, Mehran University Research Journal of Engineering and Technology, Vol. 28, No.2, pp. 239-252, April, 2009 **[HJRS Category X]**

104. **Aneel Kumar,** Tetsua, K. and Takemura, J: Effects of Sonication on Sorption of Zinc by Clayey Soils, Proc. The 6th Regional Symposium on Infrastructure Development, Bangkok, Thailand, Paper No: GEO-09, January, 2009

105. **Aneel Kumar,** Takemura, J., Nakajima, H. and Zhang, M: Sorption and Desorption of Zic from Illite and Silica, Proc. 10th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production, (SWEMP 2007), Bangkok, Thailand, pp. 317-325, December, 2007

106. **Aneel Kumar,** Koide, T. and Takemura, J: Sorption of Zinc by Illite and Silica, Proc. 42nd Japan National Conference in Geotechnical Engineering, Nagoya, Japan, Paper No. 1054, pp. 2101-2102, July, 2007

107. Koide, T., **Aneel Kumar** and Takemura, J: Effects of Zinc on Mechanical Properties of Illite, Proc. 7th Geoenvironmental Symposium, Fukuoka, Japan, pp. 265-270, August, 2007

108. **Aneel Kumar** and Takemura, J: Effects of Acoustics on Soil Desorption Capacities: Laboratory Studies, Proc. International Conference on Water Pollution in Natural Porous Media at Different Scales, Assessment of Fate, Impact and Indicators, ($WAPO^2$), Barcelona, Spain, pp. 427-434, April, 2007

109. **Aneel Kumar** and Takemura, J: Sorption of Zinc in Illite Using Leaching Tests, Proc. 4th International Conference on Remediation of Contaminated Sediments, Savannah, Georgia, USA, Paper No: B-041, January, 2007

110. **Aneel Kumar** and Takemura, J: Effects of Ultrasonic Excitation on Heavy Metal Sorption, Proc. Symposium on Infrastructure Development and the Environment, Quezon City, Philippines, Paper No: GEO-004, December, 2006

111. **Aneel Kumar,** Glawe, U. and Takemura, J: Chloride Effective Diffusion Coefficient of Bangkok Clay, Mehran University Research Journal of Engineering and Technology, Vol. 25, No. 3, pp. 259-270, July, 2006

112. Mari, A. and **Aneel Kumar**: Hydrodynamic Pressure on Concrete Dams during Earthquakes, Mehran University Research Journal of Engineering and Technology, Vol. 25, No.2, pp. 97-112, April, 2006 **[HJRS Category X]**

113. **Aneel Kumar,** Sthapit, L. and Glawe, U: Heavy Metal Diffusion through the Soft Bangkok Clay, Proc. 15th Conference on Engineering Geology, Erlangen, Germany, pp. 447-452, April, 2005

114. Khaskheli, G. B., **Aneel Kumar**. and Umrani, A. N: Tension Behavior of Over-burnt Brick Fragment Aggregate Made Structural Concrete, Mehran University Research Journal of Engineering and Technology, Vol. 23, No.1, pp. 29-42, January, 2004 **[HJRS Category X]**

115. Mathrani, M. and **Aneel Kumar**: Performance Evaluation of 30 Million Gallons/Day Water Treatment Plant of Hyderabad, Mehran University Research Journal of Engineering and Technology, Vol. 22, No.1, pp. 27-45, January, 2003 **[HJRS Category X]**