

Dr. Mohammad Muzzaffar Khan Ph.D. (NITW)

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Bahadurpura, Hyderabad – 500064, Telangana, INDIA

EDUCATION

National Institute of Technology, Warangal **06/2015 - 02/2020**

PhD in Civil Engineering

Program: Geotechnical Engineering

Research area: *Probabilistic Seismic Hazard Analysis of Warangal Region*

University College of Engineering, Osmania University, Hyderabad **11/2012 - 12/2014**

Master of Engineering in Civil Engineering

Program: Geotechnical Engineering

Thesis: *Effect of Density of Fill Material on Performance of Reinforced Soil Wall Models*

JNTUH College of Engineering, Hyderabad, **06/2008 - 06/2012**

Bachelor of Technology, Program: Civil Engineering

Thesis: *Effect of geogrid on shear strength parameters for Sandy soils*

RESEARCH INTEREST

- Probabilistic Seismic Hazard Assessment
- Ground Response Analysis
- Seismic Site Characterization using Multi-channel Analysis of Surface Waves

EXPERIENCE

- Working as Assistant Professor at TKR College of Engineering and Technology (Autonomous) from 06-March-2020 to Present.

TECHNICAL SKILLS

- SLOPE/W, DEEPSOIL, R-CRISIS, ArcGIS, MASW test analysis.

JOURNAL PUBLICATIONS

1. **Khan M.M.** and Kumar G.K. 2018. Statistical Completeness Analysis of Seismic Data. *Journal of the Geological Society of India*, 91(6), pp.749-753. (*SCI, Scopus*) <https://doi.org/10.1007/s12594-018-0934-6>
2. **Khan M.M.** and Kumar G.K. 2019 Comparing Seismicity Parameters for Different Seismic Zones in Warangal. *Disaster Advances*, 12(6), pp.15-25. (*Scopus*)
3. **Khan M.M.**, Munaga T. and Kumar G.K. 2019. Sensitivity analysis of focal depth in seismic hazard assessment. *Disaster Advances*, 12(7), pp.1-7. (*Scopus*)
4. **Khan M.M.**, Munaga T., Kiran D.N. and Kumar G.K. 2020. Seismic hazard curves for Warangal city in Peninsular India. *Asian Journal of Civil Engineering*, 21(3), pp.543-554. (*Scopus*) <https://doi.org/10.1007/s42107-019-00210-5>
5. Munaga T., **Khan M.M.** and Gonavaram K.K. 2020. Axial and Lateral Loading Behaviour of Previous Concrete Pile. *Indian Geotechnical Journal*, 50, pp.505-513. (*ESCI, Scopus*) <https://doi.org/10.1007/s40098-019-00377-3>
6. **Khan M.M.** and Kumar G.K. 2020. Site-specific Probabilistic Seismic Hazard Assessment for proposed smart city, Warangal. *Journal of Earth System Science*, 129, pp.147. (*SCI, Scopus*) <https://doi.org/10.1007/s12040-020-01407-y>
7. Kumar C.K., Mudhavath M. and **Khan M.M.** 2020. Numerical Assessment of Stability of Infinite Slope and Probability of Failure Under Varying Rainfall Intensity. *Disaster Advances*, 13(9), pp.45-53. (*Scopus*)

BOOK CHAPTERS

1. Kiran D.N., **Khan M.M.**, Reddy M.M., Reddy K.R.S., Kumar G.K. (2020) Numerical Analysis of Liquefaction and Settlement in Layered Soils. In: *Advances in Geotechnical and Transportation Engineering*. Lecture Notes in Civil Engineering, vol 71. pp. 69-77. Springer, Singapore. https://doi.org/10.1007/978-981-15-3662-5_7
2. **Khan M.M.**, Munaga T., Kumar G.K., 2020. Estimation of Maximum Magnitude (m_{max}) Considering Different Seismic Zones. In *International Conference on Emerging Trends in Engineering (ICETE)*. Learning and Analytics in Intelligent Systems, Vol 2, pp. 89-95. Springer, Cham. https://doi.org/10.1007/978-3-030-24314-2_13
3. Yadav A., Reddy K.V., **Khan M.M.**, Kumar G.K. and Bandhu A., 2020. Bio-treatment of Fly Ash. In *Advances in Computer Methods and Geomechanics*, pp. 505-517. Springer, Singapore. https://doi.org/10.1007/978-981-15-0890-5_42
4. Hiremath P., **Khan M.M.** and Kumar G.K., 2019. Fuzzy Probability Approach in Seismic Hazard Analysis. In *Soil Dynamics and Earthquake Geotechnical Engineering*, pp. 41-49. Springer, Singapore. https://doi.org/10.1007/978-981-13-0562-7_5

CONFERENCE PROCEEDING

1. Sreedhar, M.V.S. and **Khan, M.M.** 2014. Effect of density of fill material on the performance of a model reinforced soil wall. Proceedings of the National Conference on Recent Research Advances in Civil Engineering (RRACE-2014), Osmania University College of Engineering, Hyderabad, India, 7th-8th November.
2. **Khan, M.M.**, Sakhare, A., Kumar, R., and Kumar, G.K. 2016. Shear wave velocity profile at NITW stadium using MASW. Proceedings of the 1st International Conference on Civil Engineering for Sustainable Development – Opportunities and Challenges (CESDOC2016), Assam Engineering College, Guwahati, India, 19th-21st December.
3. **Khan, M.M.** and Kumar, G.K. 2019. Comparing the maximum possible earthquake magnitude (m_{max}) for different seismic zones. National Conference on Advances in Science & Technology in Civil Engineering (NCASTCE 2019), Anurag Group of Institutions, Hyderabad, India, 24th-25th January.
4. Kiran, D.N., Reddy, M.M., **Khan, M.M.**, Munaga, M. and Kumar, G.K. 2019. Liquefaction hazard analysis of soil sites at Amravathi. Proceedings of the National Conference on Geotechnical Applications (GeoApps 2019), JNTUH College of Engineering, Hyderabad, India, 30th March.
5. Kiran, D.N., Reddy, M.M., **Khan, M.M.** and Kumar, G.K. 2019. Earthquake Response Analysis of Sites using DEEPSOIL. Proceedings of the 7th Indian Young Geotechnical Engineers Conference (7IYGEC), NIT Silchar, Assam, India, 15th-16th March.

WORKSHOPS AND GIAN COURSES ATTENDED

1. A Ten day GIAN Course on “**Geotechnical Site Characterization and In-situ Testing with Emphasis on Assessment of Liquefaction Susceptibility**” conducted from 14th to 25th June 2016 by Department of Civil Engineering, Indian Institute of Technology Kharagpur.
2. A Ten day GIAN Course on “**Advances in Seismic Hazard Analysis and Soil-Structure Interaction**” conducted from 18th to 30th July 2016 by Department of Civil Engineering, Indian Institute of Technology Madras.
3. A Ten day GIAN Course on “**Ground Improvement Techniques (Classification, Case studies and Trends)**” conducted from 30th August to 09th September 2016 by Department of Civil Engineering, National Institute of Technology Warangal.
4. A Two day Workshop on “**Free and Open Source Software in Teaching and Learning (SciLab, OpenModelica, R and Latex)**” conducted during 04th and 05th March 2017 by Teaching Learning Centre, National Institute of Technology Warangal.

5. A Two day National Workshop on “**High Rise Buildings and Soil Structure Analysis**” conducted during 25th and 26th March 2017 by Department of Civil Engineering, National Institute of Technology Warangal.
6. Participated in the “**Symposium on Geopractices**” conducted on 14th October, 2017 held at JNTUH College of Engineering, Hyderabad.
7. A Ten day GIAN Course on “**Computational Geotechnics**” conducted from 25th June to 06th July 2018 by Department of Civil Engineering, National Institute of Technology Warangal.
8. A Five day GIAN Course on “**Application of Principles of Reliability and Risk Analysis to various sub-disciplines of Civil Engineering**” conducted from 31st December, 2018 to 4th January, 2019 by Department of Civil Engineering, National Institute of Technology Warangal.
9. A Five day National Workshop on “**Research Methodologies & Scholarly Writing Skills**” conducted from 21th to 25th January, 2019 by Dr. B.R. Ambedkar Learning Center, National Institute of Technology Warangal.
10. A Five day Continuing Education Programme on “**Geosynthetics in Infrastructure Development**” conducted from 28th January to 1st February, 2019 by Department of Civil Engineering, National Institute of Technology Warangal.
11. A Two day Workshop on “**Entrepreneurship and Leadership Skills**” conducted during 18th and 19th March, 2019 by Liaison Office, National Institute of Technology Warangal.
12. A Six day online Faculty Development Program on “**Advances in Concrete Science and Technology for Sustainability**” organized by Department of Civil Engineering, VN RVJIET, Hyderabad, during 13th – 18th of July 2020.

EXTRA CURRICULAR ACTIVITIES

- President of Indian Geotechnical Society Warangal – Student Chapter (2018-2019)

REFERENCES

Dr. M.V.S Sreedhar Associate Professor Civil Engineering Department Osmania University Mobile: +91-9848487187 Email: sreedgteou@gmail.com	Dr. G. Kalyan Kumar Assistant Professor Civil Engineering Department NIT Warangal Mobile:+91-8332969265 Email: kalyan@nitw.ac.in	Dr. M.V.S Sivakumar Assistant Professor Civil Engineering Dept. NIT Warangal Mobile:+91-9505745340 Email: mvns@nitw.ac.in
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