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**RESEARCH AREA/EXPERTISE:** Pavement Material Characterization, Pavement Performance and Maintenance, Road Safety, Transportation Geotechnics, Ground Improvement, Granular Pile

## **EDUCATION**

- **Ph.D. (Civil Engineering)** from Maulana Azad National Institute of Technology, Bhopal (M.P.), 2016  
*Topic: Swelling Behavior of Expansive Soils Reinforced with Granular Pile*
- **M. E. ( Transportation Engineering)** from S.G.S.I.T.S., Indore (M.P.), 2010  
*Topic: Effect of Shape of Aggregate on Pavement Quality Concrete*
- **B.E. in Civil Engineering** from Govt. Engg. College, Rewa (M.P.), 2007

## **EMPLOYMENT RECORD**

- **Feb.2020–Present:** Assistant Professor, Department of Civil Engg., School of Studies, Engineering and Technology, Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur (C.G).

## **PROFESSIONAL RECOGNITION**

- Received “**International Innovative Researcher in Civil Engineering**”, RULA Peace Award, 2019.
- Received “**CPWD Medal and Award for Best Paper on Maintenance**” for paper entitled ‘*Pavement Deterioration Modeling for Low Volume Roads*’ from Indian Road Congress, 2015.

- Received Fellowship by **COIR BOARD, Kochi** during Ph.D. in Maulana Azad National Institute of Technology, Bhopal (M.P.)

## **PROFESSIONAL MEMBERSHIP**

- Institute of Urban Transport (IUT) – M 1556
- Indian Roads Congress (IRC) – LM 33906
- Indian Geotechnical Society (IGS) – LM3873

## **PATENT**

- **Kundan Meshram** and Pradeep Kumar Jain, (2018), “Method of Reducing the Swelling Pressure of the Expansive Soils by Reinforcing it with the Granular Pile”, Indian Patent (**Granted, Patent No.293046**).
- **Kundan Meshram**, “Method of Reducing the Swelling of Expansive Soils Reinforced with the Granular Pile”, Journal No. 5/2019, pp.4188, Indian Patent (**Published, Application No.: 201811049299**).
- **Kundan Meshram** and Sunil Kumar Ahirwar, “Cellular Reinforcement Supported on Expansive Soil”, Indian Patent (**Filed, Application No.:201811032110**).

## **BOOK**

- Markanday Giri, Sagar Jamle and **Kundan Meshram (2020)**, “Response Spectrum Analysis”, LAP LAMBERT Academic Publishing, Mauritius, ISBN: 978-620-0-32633-1.
- Nidhi Gupta, Rohit Sahu and **Kundan Meshram (2015)**, “Building Design and Drawing”, Ardent Publications, ISBN: 978-93-81481-12-7.

## **SHORT TERM TRAINING PROGRAMME/WORKSHOP ORGANIZED**

- Workshop on “**Conceptual Framework of Intellectual Property Rights**”, held at Oriental University, Indore on 12<sup>th</sup> October, 2019.
- STTP on “**Application of SPSS in Multidisciplinary Research**”, January 6-10, 2016 at M.A.N.I.T. Bhopal.

- STTP on “**IPR Issues: Patent Drafting & Processing of Patent Application**”, March 14-18, 2015, at M.A.N.I.T. Bhopal.
- STTP on “**Research Methodology and Applications of SPSS in Multidisciplinary Research**”, January 04-08, 2015, at M.A.N.I.T. Bhopal.

## **Members of the Advisory Board**

- CSVTU Research Journal on Engineering and Technology

## **PUBLICATION**

### *International Journal*

- Nilesh A. Ahire and **Kundan Meshram** (2020), “Rotational Behaviour of Reinforced Concrete Beam Wrapped with Different Fibers”, International Journal of Scientific & Technology Research (Accepted).
- Baswehwar S. Jirwankar and **Kundan Meshram** (2020), “Sustainable Smart City Planning By means of Land Use Models for Indian Cities”, International Journal of Scientific & Technology Research (Accepted).
- Rekha Shinde and **Kundan Meshram** (2020), “Investigation of Building Failure using Structural Forensic Engineering”, International Journal of Scientific & Technology Research (Accepted).
- Ashish Nim and **Kundan Meshram** (2020), “Development of Walling Materials Using Industrial Waste”, International Journal of Architecture, Engineering and Construction (Accepted).
- Baswehwar S. Jirwankar and **Kundan Meshram** (2020), “An Assessment of Land Use Changes Influenced By Urbanization: Implication with Spatial Distribution of Land Using Remote Sensing Technique”, International Journal of Architecture, Engineering and Construction (Accepted).
- Romesh Malviya, Sagar Jamle, and **Kundan Meshram** (2020), "Examination on Increasing Stability of Multistoried Building: A Theoretical Review", International Journal of Advanced Engineering Research and Science, Vol. 7, no. 1, pp. 162-164.

- PrafullaThakre, Sagar Jamle, and **Kundan Meshram** (2019), "A Review on Opening Area with Respect to Wall Area in Shear Wall for Multistoried Building ", International Journal of Research and Analytical Reviews, Vol. 9, no. 3, pp. 156-161.
- Shirish Kumar Kanungo, Sagar Jamle, and **Kundan Meshram** (2019), "An Informative Review on Underground Storage Reservoir System", International Journal of Research and Analytical Reviews, Vol. 6, no. 4, pp. 301-304.
- Shirish Kumar Kanungo, Sagar Jamle, and **Kundan Meshram** (2019), "Determination of Stable USB system ", International Journal of Management, Technology And Engineering, Vol. 9, no. 11, pp. 143-151.
- Sapan Chawla, Sagar Jamle, and **Kundan Meshram** (2020), "A Review on Economical Design of Intz Water Tank as per IS-875-III, for Wind Speed in India", International Journal of Advanced Engineering Research and Science, Vol. 7, no. 1, pp. 147-151.
- Yash Joshi, Sagar Jamle, and **Kundan Meshram** (2019), "Dynamic Analysis of Dual Structural System", International Journal of Research and Analytical Reviews, Vol. 6, no. 2, pp. 518-523.
- Rajesh Chouhan, Sagar Jamle, and **Kundan Meshram** (2019), "Dynamic Analysis of Tuned Mass Damper Steel Structure: A Review", International Journal of Management, Technology And Engineering, Vol. 9, no. 7, pp. 212-216.
- Rajesh Chouhan, Sagar Jamle, and **Kundan Meshram** (2019), "Dynamic Analysis of Tuned Mass Damper on Steel Structure: A Technical Approach", International Journal of Research and Analytical Reviews, Vol. 6, no. 2, pp. 956-960.
- **Kundan Meshram**, Hassan M. Rangwala, H.S. Goliya and Paresh Sawanliya (2016), "On-field Assessment of Sub-Grade Uniformity using DCP", Geotechnical Testing Journal, ASTM International, Vol. 39, No. 3, pp. 447-451.
- **Kundan Meshram** and P.K. Jain (2015), "Swelling Behavior of Expansive Soil Using Granular Pile Technique", Global Journal Of Advanced Engineering Technologies & Sciences, Vol. 2 Issue 7, pp. 90-93.
- **Kundan Meshram** and P.K. Jain (2015), "Strength and Settlement Studies of Black Cotton Soil Reinforced With Granular Pile", International Journal of Engineering Sciences & Research Technology, Vol. 04, Issue 04, pp. 621-630.

- **Kundan Meshram**, S.K. Mittal, P.K. Jain and P.K. Agarwal (2013), “Application of Coir Geotextile in Rural Roads Construction on BC Soil Subgrade”, International Journal of Engineering and Innovative Technology, Vol. 3, Issue 4, pp. 264-268.
- **Kundan Meshram** and H.S. Goliya (2013), “Accident Analysis on National Highway-3 Between Indore to Dhamnod”, International Journal of Application or Innovation in Engineering & Management, Vol. 2, Issue 7, pp. 57-59.
- **Kundan Meshram**, S.K. Mittal, P.K. Jain and P.K. Agarwal (2013), “Application of Coir Geotextile for Road Construction: Some Issues”, Oriental International Journal of Innovation Engineering Research, Vol. 1, Issue 1, pp. 25-29.
- **Kundan Meshram**, H.S. Goliya and Akhilesh Poddar (2013), “Stress Analysis and Determination of Effective k-value for Rigid Pavement”, International Journal of Engineering Science and Technology, Vol. 5 No.03, pp. 468-474.
- Vandana Tare, **Kundan Meshram** and B.P. Bourasi (2012), “Effect of Shape of Shape of Aggregate on Behavior of Dense Bituminous Macadam”, International Research Journal of Humanities, Engineering & Pharmaceutical Sciences, Vol. II, Issue III, pp. 103-113.
- H.S. Goliya, **Kundan Meshram** and Parul Mukherji (2012), “Pavement Shoulder Intersection on NH- 59 (km 61- km 136): A Case Study”, International Journal of Engineering Sciences & Management, Vol. 3, Issue 1, pp. 220-231.

### *National Journal*

- Vandana Tare, Diwaker Singh and **Kundan Meshram** (2018), “Stabilization of Black Cotton Soil with Sand and Non Woven Coir”, Indian Highways (IRC), Vol. 46, No. 2, pp. 39-44.
- **Kundan Meshram** and Dilip Singh Yadav (2016), “Bus Rapid Transit system for Indore City”, NICMAR-Journal of Construction Management, Vol. XXXI, No. I & II, pp. 39-48.
- Vandana Tare, Sunil Kumar Pal and **Kundan Meshram**(2014), “Performance Characteristics of Bituminous Mixes Modified by LDPE, HDPE, and PP Granule”, Indian Highways (IRC), Vol. 42, No. 11, pp. 11-12.

- **Kundan Meshram**, P.K. Jain, S.K. Mittal and P.K. Agarwal(2014), “CBR Improvement of Expansive Black Cotton Soil Using Coir Geotextile”, NICMAR-Journal of Construction Management, Vol. XXIX, No. III, pp. 45-50.
- Vandana Tare, **Kundan Meshram** and Sipika Srivastava (2014), “Optimization of Transfer Time and Initial Waiting Time for a Bus Network Using Genetic Algorithm”, Indian Highways (IRC), Vol. 42, No. 8, pp. 48-53.
- **Kundan Meshram**, Suneet Kaur and Vandana Tare (2014) “Performance Evaluation for Low Volume Roads in India using Soft Computational Approach”, NICMAR-Journal of Construction Management, Vol.-XXIX, No.- II, pp. 49-58.
- Vandana Tare, H.S. Goliya, AtulBhatore and **Kundan Meshram** (2013), “Pavement Deterioration Modeling for Low Volume Roads”, Journal of The Indian Roads Congress (IRC), vol.-73, No.-4, pp.67-81. (Received “**CPWD Medal and Award for Best Paper on Maintenance**” for this paper)
- **Kundan Meshram** and H.S. Goliya (2013), “Effect of Shape of Aggregate on Pavement Quality Concrete”, Indian Highways (IRC), Vol. 41, No. 3, pp. 41-48.

#### *International Conference*

- Baswehwar S. Jirwankar and **Kundan Meshram** (2020), “Urban Planning in India - Treasure out the challenges & solutions for Indian cities”, First International Conference on Challenges and Opportunities for Development of Smart Cities 2020 (ICCODS 2020).
- **Kundan Meshram**, and P.K. Jain (2015), “Ground Improvement Techniques: Recent Advances”, International Conference on status of Science and Technology in Chhattisgarh State , 19-20 March 2015, held at Bhilai Institute of Technology, Durg (C.G.).

#### *National Conference*

- **Kundan Meshram** and P.K. Jain(2015), “Prediction Of Swelling Pressure For Expansive Soils”, National Conference on “Strategic Perspectives and Advancements in Civil Engineering”, 13<sup>th</sup> April 2015, held at JIT Borawan, Khargone, pp. 46-48.

- **Kundan Meshram, Aparna, Rakesh Kumar and P.K. Jain (2014)**, “Swelling Behavior of Expansive Soil Reinforced with Granular Pile”, National Conference On Recent Advancements & Innovations In Civil Engineering held at T.I.T. (Excellence) Bhopal, on 27, 28 and 29 June 2014.
- **Kundan Meshram, S.K. Mittal, P.K. Jain and P.K. Agarwal(2013)**, “Application of Coir Geotextile in Rural Roads Construction on BC Soil Subgrade”, National Conference on Emerging Trend in Human Computer Interaction in Engineering held at Jawaharlal Institute of Technology Borawan, on 5 October 2013.
- **Kundan Meshram, S.K. Mittal, P.K. Jain and P.K. Agarwal(2013)**, “Application of Coir Geotextile for Road Construction: Some Issues”, National Conference on “Advances in Engineering Research & Applications” held at Oriental College of Technology, Bhopal on 14-16 March 2013, pp. 476-480.

## **CONFERENCE, SEMINAR etc. ATTENDED**

### *National conference Attended*

- “Strategic Perspectives and Advancements in Civil Engineering”, National conference held at JIT Borawan, Khargone on 13<sup>th</sup> April 2015.
- “Recent Advancements & Innovations in Civil Engineering”, National Conference held at T.I.T. (Excellence) Bhopal, on 27, 28 & 29 JUNE 2014.
- “Emerging Trend in Human Computer Interaction in Engineering”, National Conference held at Jawaharlal Institute of Technology Borawan, on 5 October 2013.
- “Advances in Engineering Research & Applications” National Conference held at Oriental College of Technology, Bhopal on 14-16 March 2013.

### *Faculty Development Programme Attended*

- “Professional Ethics and Human Value”, Faculty Development Program held at Maulana Azad National Institute of Technology Bhopal on 02 March 2016.
- “Faculty Development Program on IS: 800: 2007”, Faculty Development Program held at IES-IPS Academy Indore during 15-17 July 2010.

### ***STTP Attended***

- “Research Techniques & Applications of SPSS” Short Term Course held at Maulana Azad National Institute of Technology Bhopal during July 29-August 02, 2013.
- “STAAD. Pro”, Short Term Course held at Maulana Azad National Institute of Technology Bhopal during 20-22 March 2013.

### ***Workshop/Seminar Attended***

- “Research & Plagiarism”, Seminar organized by Oriental University, Indore on 30/09/2019.
- “VIRTUAL-LABS”, Workshop held at Oriental University, Indore on 12/09/2019.
- “Soil and Highway Material Testing (SHMT 19)”, National Workshop held at SGSITS Indore during 30/8/2019 & 31/8/2019.
- “Outcome Based Education and Accreditation for Engineering Programmes”, National Workshop held at S.G.S.I.T.S. Indore during 3-4 May 2019.
- “Free and Open Source Solutions for Geoinformatics”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during 25-26 March 2016.
- “Soft Skills for Interviews”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during 21-22 March 2015.
- “English Learning Programme”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during 04-13 February 2015.
- “MATLAB for Researchers (MATLAB-13)”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during December 20-21, 2013.
- “Recent Advances in Civil Engineering- RACE -2013”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during December 16-20, 2013.
- ISTE Workshop on “Engineering Mechanics” conducted by Indian Institute of Technology Bombay during November 26- December 06, 2013.
- “Road Safety Engineering”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during 8-9 February 2013.
- “Recent Advances in Water Resources Management”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during 31-1 January 2013.



- “Interactive Systems, Nanosolar Photovoltaics and Coatings for a Sustainable Built Environment”, International Workshop held at Maulana Azad National Institute of Technology Bhopal during 10-11 January 2013.
- “Rain Water Harvesting- Techniques and Applications”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during 12- 13 January 2013.
- “Skill Development”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during 20-21 December 2012.
- “Performance Vs Learning”, National Workshop held at Maulana Azad National Institute of Technology Bhopal during 13-14 December 2012.
- “Workshop on Soft Computing”, National Workshop held at Sushila Devi Bansal College of Technology Indore during 4-5 February 2011.
- “Mechanised Construction & Maintenance”, National Seminar organized by Indian Building Congress during 14-15 March 2008, Indore.