

Journal Publications (Published/Accepted/Under Review)

1. **Choudhary, J.**, Asthana, G., Sukhija, M., Wagh, V.P, Gupta, C. (2023). Effective utilization of waste cement concrete dust in bituminous concrete. *Proceedings of the Institution of Civil Engineers – Transport*, <https://doi.org/10.1680/jtran.23.00045> (IF: 1.121)
2. **Choudhary, J.**, Choudhary, M., & Gupta, A. (2023). Applicability of multiple stress creep and recovery test for the analysis of fatigue resistance of bituminous mastics. *Petroleum Science and Technology*, Taylor and Francis. 17, e01640. DOI: 10.1080/10916466.2023.2175856 (IF: 1.695)
3. Mondal, A., Ransinchung, G.D.R.N, **Choudhary, J.** (2023), Sustainable recycling of industrial waste fillers and reclaimed asphalt pavement to produce environmentally feasible warm mix asphalt, *Innovative Infrastructure Solutions*, Springer. 8(34). DOI:10.1007/s41062-022-01006-4 (Scopus Indexed)
4. **Choudhary, J.**, Sukhija, M., & Gupta, A. (2022). A Comparative Analysis of Engineering and Economical Suitability of Bituminous Mastics containing Waste Fillers. *Case Studies in Construction Materials*, Elsevier. 17, e01640. DOI: 10.1016/j.cscm.2022.e01640 (IF: 4.934)
5. **Choudhary, J.**, Kumar, B., & Gupta, A. (2022). Bauxite Residue: A Viable Filler for Asphalt Mixes. *Gradevinar: Journal of the Croatian Association of Civil Engineers*. 74 (2022), 481-489. DOI: 10.14256/JCE.2391.2018 (IF: 0.992)
6. **Choudhary, J.**, Gupta, A., & Saboo, N. (2022). Revising Current Indian Guideline for the Selection of Mineral Filler: Need and A Way Forward, *Indian Highways*, Indian Road Congress, 50(4), 41-52.
7. **Choudhary, J.**, Kumar, B., & Gupta, A. (2021). Utilization of Waste Glass Powder and Glass Composite Fillers in Asphalt Pavements, *Advances in Civil Engineering*, Hindawi, 2021, 3235223. DOI: 10.1155/2021/3235223 (IF: 1.843)
8. **Choudhary, J.**, Kumar, B., & Gupta, A. (2021). Evaluation of Engineering, Economic and Environmental Suitability of Waste Filler Incorporated Asphalt Mixes and Pavements, *Road Materials and Pavement Design*, Taylor and Francis, 22(S1), S624-S640. DOI: 10.1080/14680629.2021.1905698 (IF: 3.792)
9. Islam, S., Ransinchung, G.D.R.N, **Choudhary, J.** (2021), Sustainable Utilization of Waste Jarosite in Asphalt Pavements, *Journal of Materials in Civil Engineering*, ASCE. DOI:10.1061/(ASCE)MT.1943-5533.0003938 (IF: 3.651)
10. **Choudhary, J.**, Kumar, B., & Gupta, A (2021). Analyzing the Influence of Waste Fillers on the Ageing Susceptibility of Asphalt Concrete, *International Journal of Pavement Engineering*, Taylor and Francis, DOI: 10.1080/10298436.2021.1927027 (IF: 4.139)
11. **Choudhary, J.**, Kumar, B., & Gupta, A. (2021) Potential Utilization of Construction Wastes in Asphalt Pavements as fillers using Ranking Framework, *Construction and Building Materials*, Elsevier, 277, 122262 (IF: 7.639)
12. **Choudhary, J.**, Kumar, B., & Gupta, A. (2020). Analysis and Comparison of Asphalt Mixes Containing Waste Fillers Using a Novel Ranking Methodology. *Journal of Materials in Civil Engineering*, ASCE, 32(5), 04020064. DOI: 10.1061/(ASCE)MT.1943-5533.0003137 234. (IF: 3.651)
13. **Choudhary, J.**, Kumar, B., & Gupta, A. (2020). Effect of Filler on the Bitumen-Aggregate Adhesion in the Asphalt Mix. *International Journal of Pavement Engineering*, Taylor and Francis, 21:12, 1482-1490, DOI: 10.1080/10298436.2018.1549325. (IF: 4.139)
14. **Choudhary, J.**, Kumar, B., & Gupta, A. (2020). Feasible Utilization of Waste Limestone Sludge as Filler in Bituminous Concrete. *Construction and Building Materials*, Elsevier, 239, 117781. (IF: 7.639)
15. **Choudhary, J.**, Kumar, B., & Gupta, A. (2020). Utilization of Solid Waste Materials as Alternative Fillers in Asphalt Mixes: A Review. *Construction and Building Materials*, Elsevier, 234, 117271. (IF: 7.639)
16. Islam, S., Ransinchung, G.D.R.N, **Choudhary, J.** (2020), Analyzing the effect of Waste Jarosite as an Alternative Filler on the Engineering Properties of Asphalt Mix, *Construction and Building Materials*, Elsevier, 270, 121466 (IF: 7.639)
17. **Choudhary, J.**, Kumar, B., & Singh, S (2021). Assessment of Engineering and Environmental

- Suitability of Bituminous Concrete containing Waste Biomass Ash., *International Journal of Pavement Research Technology*, Springer, 14, 751-763. DOI: <https://doi.org/10.1007/s42947-020-0242-6> (Scopus Indexed)
18. Choudhary, J., Kumar, B., & Gupta, A (2020). Use of Industrial Wastes as Alternative Fillers in Bituminous Concrete, *Indian Highways, Indian Road Congress*, 48(11), 11-22.
 19. Choudhary, J., Kumar, B., & Gupta, A (2020). Performance evaluation of asphalt concrete mixes having copper industry waste as filler. *Transportation Research Procedia, Elsevier*, 48, 3656-3667. (Scopus Indexed)
 20. Choudhary, J., Kumar, B., & Gupta, A. (2019). Performance evaluation of bauxite residue modified asphalt concrete mixes. *European Journal of Environmental and Civil Engineering, Taylor and Francis*, DOI:10.1080/19648189.2019.1691662234. (IF: 2.516)
 21. Choudhary, J., Kumar, B., & Gupta, A. (2019). Use of Dimension Limestone Sludge as Filler in Asphalt Mix. *Proceedings of the Institution of Civil Engineers-Construction Materials, ICE*, DOI: 10.1680/jcoma.18.00022. (Scopus/ESCI Indexed)
 22. Choudhary, J., Kumar, B., & Gupta, A. (2018). Application of waste materials as fillers in bituminous mixes. *Waste Management, Elsevier*, 78, 417-425. (IF: 8.816)
 23. Choudhary, J., Kumar, B., & Gupta, A. (2019). A Study on Engineering Properties of Carbide Lime Modified Asphalt Concrete Mixes. *Journal of the Eastern Asia Society for Transportation Studies, EASTS*, 13, 1539-1550.
 24. Choudhary, J., Kumar, B., & Gupta, A. (2017). Potential of solid wastes generated in India as mineral fillers in flexible pavements: Opportunities and challenges. *Waste Management*, 69, I-III, Elsevier (IF: 8.816)

Conference Publications

1. Kumar, A. and Choudhary, J. (2024), "Development of sustainable porous asphalt mixes utilizing Rice Husk Ash and Reclaimed Asphalt Pavement", National Conference on Green Technology & Sustainable Development (GTSD-2024), Patna, Bihar, India during 30 to 31 May, 2024.
2. Sharma, M. and Choudhary, J. (2024), "Analysing Effect of Biomedical Ash on the Performance of Open Graded Friction Course", National Conference on Green Technology & Sustainable Development (GTSD-2024), Patna, Bihar, India during 30 to 31 May, 2024.
3. Islam, S., Ransinchung, G.D.R.N, Choudhary, J. (2022). Imperative Role of Waste Jarosite on Rutting and Fatigue Properties of Asphalt Mastic and Mixes. *Highways and Airport Pavement Engineering, Asphalt Technology, and Infrastructure Conference - 2022*. April 27, Liverpool, UK.
4. Choudhary, J., Kumar, B., & Gupta, A. (2020). Effect of Filler Type and Content on the Rheological Properties of Asphalt Mastics. *RILEM International Symposium on Bituminous Materials (ISBM Lyon 2020)*. December 14-16, Lyon, France (Shifted to Virtual Mode).
5. Choudhary, J., Kumar, B., & Gupta, A. (2019). Performance evaluation of industrial waste filler modified asphalt mixes. *98th Annual Meeting of Transportation Research Board*. January 13-17, Washington D.C., USA.
6. Choudhary, J., Kumar, B., & Gupta, A. (2019). Performance evaluation of carbide lime modified asphalt mixes. *International Conference of Transportation Infrastructure Projects: Conception to Execution*. January 07-10, Roorkee, India.
7. Choudhary, J., Kumar, B., & Gupta, A. (2018). Performance evaluation of waste fillers admixed asphalt mixes. *International Conference of Transportation Research Forum*. August 03-04, Moratuwa, Srilanka.
8. Choudhary, J., Kumar, B., & Gupta, A. (2018). Evaluation of mechanical and durability properties of asphalt mixes comprising recycled materials as fillers. *International Conference of Resource Sustainability*. June 27-29, Beijing, China.
9. Choudhary, J., Kumar, B., & Gupta, A. (2018). A review of solid waste materials as alternative fillers in asphalt mixes. *International Conference of Resource Sustainability*. June 27-29, Beijing, China.

10. **Choudhary, J.**, Kumar, B., & Gupta, A. (2018). Recycling of glass and glass-hydrated lime composite as filler in asphalt mixes. *International Conference of Resource Sustainability*. June 27-29, Beijing, China.
11. Tiwari, P., Nateriya, R. & **Choudhary, J.** (2018). Investigation of Recycled Demolition Waste over Mechanical Properties of Cement Concrete. *International Conference of Resource Sustainability*. June 27-29, Beijing, China.
12. **Choudhary, J.**, Kumar, B., & Gupta, A. (2018). Potential of Bauxite Residue as Filler in Asphalt Concrete. *97th Annual Meeting of Transportation Research Board*. January 7-11, Washington D.C., USA.
13. **Choudhary, J.**, Kumar, B., & Gupta, A. (2018). Investigation of using Dimension Limestone Slurry Waste as Filler in Asphalt. *97th Annual Meeting of Transportation Research Board*. January 7-11, Washington D.C., USA.
14. **Choudhary, J.**, Kumar, B., & Gupta, A. (2017). Suitability of Various Indian Wastes as Fillers in Bituminous Mixes. *National Conference on New Technology for Road Construction*. December 8-9, Lucknow, India
15. **Choudhary, J.**, Kumar, B., Ohri, A., & Gupta, A. (2017). Road Accident Data Collection Management and Analysis System Developing a Suitable Framework for Varanasi City. *12th International Conference of Eastern Asia Society for Transportation Studies*. September 18-21, Ho Chi Minh City, Vietnam.
16. **Choudhary, J.**, Kumar, B., & Gupta, A. (2017). A Preliminary Investigation into the Physical and Chemical Properties of Industrial Wastes used as Mineral Fillers in Asphalt Mixes. *10th International Conference on Road and Airfield Pavement Technology*. August 8-10, Hong Kong, China.
17. **Choudhary, J.**, Kumar, B., & Gupta, A. (2017). Investigation of Marshall Characteristics & Durability of Glass Powder Incorporated Dense Graded Asphalt. *International Conference on Advances in Highway Engineering & Transportation Systems*. July 21, Negombo, Srilanka.
18. **Choudhary, J.**, & Gupta, A. (2017). Utilization of Secondary Materials in Hot Mix Asphalt as Filler: An Overview. *15th REAAA (Road Engineering Association of Asia and Australasia) Conference*. March 22-24, Bali, Indonesia.
19. **Choudhary, J.**, Kumar, B., & Gupta, A. (2016). Preliminary Characterization of Waste materials as Mineral Filler for Hot Mix Asphalt. *12th International Conference of Transportation Planning and Implementation Methodology for Developing Countries*. December 19-21, Mumbai, India.
20. **Choudhary, J.**, & Sharma, A. (2016). Design and Feasibility Analysis of Personal Rapid Transit Network for Indian Heritage City. *38th Australasian Transport Research Forum*. November 16-18, Melbourne, Australia.
21. **Choudhary, J.**, Kumar, B., & Gupta, A. (2016). Laboratory Evaluation on Recycling Waste Industrial Glass Powder as Mineral Filler in Hot Mix Asphalt. *Civil Engineering Conference-Innovation for Sustainability*. September 9-10, Hamirpur, India.
22. **Choudhary, J.**, Ohri, A., & Kumar, B. (2015). Spatial and Statistical Analysis of Road Accident Hotspots using GIS. *3rd Conference of Transportation Research Group of India*. December 18-21, Kolkata, India.
23. **Choudhary, J.**, Ohri, A., & Kumar, B. (2015). Identification of Road Accident Hot Spots in Varanasi using QGIS. *National Conference on Open Source GIS: Opportunities and Challenges*. October 9-10, Varanasi, India.
24. **Choudhary, J.**, Ohri, A., & Kumar, B. (2015). GIS Based Road Accident Database and Analysis System for Varanasi. *International Conference on Sustainable Energy and Built Environment*. March 12-13, Vellore, India.
25. **Choudhary, J.**, Ohri, A., & Kumar, B. (2015). Emerging Methodologies for Road Accident Hot Spot Identification. *National Conference on Sustainable Infrastructure Development*. February 26-27, Chandigarh, India.

Book Chapters/ Editorial Notes

1. Varun B. S. S., **Choudhary, J.**, & Gupta, A. (2021). A Preliminary Approach for Comparative Life Cycle Assessment of Flexible and Rigid Pavements - A Case Study. *Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements* 574-578, **CRC Press. (Scopus Indexed)**
2. **Choudhary, J.**, Kumar, B., & Gupta, A. (2020). Effect of Waste Fillers on the Rutting and Fatigue Behavior of Asphalt Mastic and Mixes. *Proceedings of the 9th International Conference on Maintenance and Rehabilitation of Pavements-MAIREPAV9* 385-395, **Springer. (Scopus Indexed)**
3. Asthana, G., **Choudhary, J.**, Kumar, B., & Gupta, A. (2020). Experimental Investigation of Waste Glass Powder as Filler in Asphalt. *Recent Developments in Waste Management* 261-270, **Springer. (Scopus Indexed)**
4. Singh, S., **Choudhary, J.**, Kumar, B., & Gupta, A. (2020). Effects of using Kota Stone as Filler on Mechanical Properties of Asphalt Concrete Mixes. *Recent Developments in Waste Management* 249-259, **Springer. (Scopus Indexed)**
5. Sharma, A., Parida, M., Sekhar, C. R., & **Choudhary, J.** (2020). Assessing the Impact of Bus Arrival Rate on the Bus Lane Capacity: A Simulation-Based Approach. *Transportation Research* 29-38. **Springer. (Scopus Indexed)**
6. **Choudhary, J.**, Kumar, B., & Gupta, A. (2019). Influence of filler types and their quantities on bitumen-aggregate adhesion. *Bituminous mixtures and pavements VII: Proceedings of the 7th international conference* 689-698. **Taylor and Francis. (Scopus Indexed)**
7. **Choudhary, J.**, Kumar, B., & Gupta, A. (2018). Performance of Asphalt Mix with Glass and Glass-Lime Composite Fillers. *Advances in Materials and Pavement Performance Prediction -Proceedings of the International AM3P Conference.* 387-390, **Taylor and Francis. (Scopus Indexed)**