

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. 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.
2. 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).
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.

10. **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.
11. **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.
12. **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
13. **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.
14. **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 Pavement Technology*. August 8-10, Hong Kong, China.
15. **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.
16. **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.
17. **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.
18. **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.
19. **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.
20. **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.
21. **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.
22. **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.
23. **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)**