**Dr. Surender Singh**

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**EDUCATIONAL DETAILS**

**Indian Institute of Technology** Roorkee, IND

*PhD. Civil Engineering**Sept, 2018*

**National Institute of Technology** Kurukshetra, IND

*M.Tech (****1st Div. with Honors****), Civil Engineering May 2015*

**Deenbandhu Chhotu Ram University of Science and Technology** Murthal, IND

*B.Tech (****1st Div. with Honors****), Civil Engineering May 2013*

**RESEARCH INTERESTS**

**●** Pavement Material Characterization **●** Valorization of Waste Materials **●** Recycled Aggregates

**●** Unconventional Concrete Paving Mixes**●** Design, Construction and Rehabilitation of Concrete Pavements

**TEACHING EXPERIENCE**

* Indian Institute of Technology, Madras April 2019- To Date
* Amity University, Noida Aug 2018- April 2019

**AWARDS, HONOURS, AND RECOGNITIONS**

* **Chairperson, RILEM Youth Council (RYC)**  2024-2026
* **Transportation Research Board (TRB) Standing Committee Member** on Design

and Rehabilitation of Concrete Pavements, **AKP20** 2022-2028

* **Institute Research and Development Award** for Excellence in Research and Development,

Indian Institute of Technology Madras, Chennai 2025

* **Young Associate Award** by the Indian National Academy of Engineering **(INAE)** 2024
* **Young Faculty Recognition Award** for Excellence in Research and Teaching

at Institute level, Indian Institute of Technology Madras, Chennai 2023

* **Vice-Chairperson, RILEM’s Youth Council (RYC)**  2021-2024
* **RILEM** RYC Member representing South Asian Countries 2021-2025
* **Academic Council Member,** Kurukshetra University  2021-2023
* Executive Committee Member of **Indian Concrete Institute** (ICI) Chennai Centre 2020-2024
* Best Paper Award at 14th International Conference on TPMDC 2022
* Indian National Academy of Engineering (**INAE**) Innovative Student Project **Award** in

Doctoral Category 2019

* **Honorary** Student **Member** for 5 years by **INAE** 2019
* Indian Roads Congress (**IRC**) **National Award**; *Bihar PWD Medal* 2017
* Branch Topper’s Fellowship 2010-2013
* Indian Army Merit Certificate 2006, 2007

**JOURNAL REFEREE**

* Cement and Concrete Research **●** Cement and Concrete Composites **●**Construction and Building Materials **●** Journal of Cleaner Production **●** ASCE Journal of Materials in Civil Engineering **●** ASCE Journal of Transportation Engineering-Part B **●** Cleaner Materials **●** International Journal of Pavement Engineering **●** International Journal of Pavement Research and Technology **●** Case Study in Construction Materials **●** Road Materials and Pavement Design **●** Sustainable Cement-Based Materials **●** ASTM Journal of Testing and Evaluation **●**Journal of the Institute of Engineers (India): Series A: Engineering Review **●** Journal of Transportation in Developing Economies **●** Journal of Building Engineering **●** Sustainable Cement-based Materials **●** MDPI Building

**RESEARCH PROJECTS**

* **Sustainable Concrete Pavements using High Volumes of Construction, Demolition, and Industrial Wastes as Constituent Replacements** *2024-2027*

Project under Indo-German Science and Technology Centre Role: Co-PI

* **Use of Foundry Sand in Pavement Applications** *2024-2025*

*Project under Corporate Social Responsibility by Yuken India Limited* Role: PI

* **Elucidating the Role of Mineralogy, Aggregate-Mortar Bonding, and Comminution Mechanism on the Quality of Recycled Concrete Aggregates for Rigid Pavement Applications** *2024-2027*

*Project under SERB-Department of Science & Technology (DST)* Role: PI

* **Elucidating the Role of Cement-Asphalt-Aggregate Interaction on Failure and Durability of Rigid Pavements containing Reclaimed Asphalt Pavement Aggregates** *2022-2024*

*Project under SERB-Department of Science & Technology (DST)* Role: PI

* **Framework for Optimizing and Enhancing the Performance of Concrete Pavements using Natural Coir Fibres** *2021-2023*

*Project under COIR Board,*  Ministry of Micro, Small & Medium Enterprises Role: PI

* **Development of Ultra-High-Performance Concretes (UHPCs) for Road/Bridge Infrastructure in Urban Areas**  *2022-2024*

*Project by Kerala Highway Research Institute* Role: PI

* **Centre of Excellence on Technologies for Low Carbon, Lean Construction** *2023-2026*

*Project under Institution of Eminence Grant, Ministry of Education* Role: Co-PI

* **Research Centre on Emerging Mobility Technology**  *2023-2023*

*Project under Institution of Eminence Grant, Ministry of Education* Role: Co-PI

* **Optimization of coir geotextiles based on its form for low-volume rural road construction** *2022-2023*

*Project by Ministry of Roads Transport and Highways under MoRTH Chair Scheme* Role: Co-PI

* **High Performance Concretes for Nuclear Power Plants in Coastal Regions - Corrosion & Service Life Assessments** *2021-2024*

*Project by Indra Gandhi Centre for Atomic Research*  Role: Co-PI

* **Research and Development on Construction Debris** *2021-2022*

*Project by We Start Communications Pvt. Ltd.* Role: PI

* **A New Framework of High Value Added Zero-Waste Recycling of Concrete from Construction and Demolition Waste** *2019-2022*

*Project under Department of Science & Technology (DST): UKIERI* Role: Co-PI

* **Roller Compacted Concrete Pavements for Sustainable Rural Roads** *2019- 2021*

*Project under New Faculty Initiation Grant, IIT Madras* Role: PI

* **Suitability of Low-Cost, Low-Carbon RCCP for Rural Roads** *2019- 2022*

*Project under New Faculty Seed Grant, IIT Madras*Role: PI

* **Inducing Sustainability through Construction & Demolition Waste in Roller Compacted Concrete Pavements**  *2020- 2021*

*Project under Exploratory Research Project, IIT Madras* Role: PI

**FELLOWSHIP/MEMBERSHIP**

**Transportation Research Board (TRB)** International Committee Member

**RILEM Youth Council** Chairperson

Indian Concrete Institution (**ICI**) Executive Committee Member

**RILEM** Affiliate Member

Indian National Academy of Engineering (**INAE**) Student Member

Indian Roads Congress (**IRC**) Life Member

Indian Concrete Institution (**ICI**) Life Member

**CONTRIBUTION TO NATIONAL & INTERNATIONAL COMMITTEES**

* **Indian Roads Congress (IRC):** Drafting of the new IRC:SP:68-2022 code on Roller Compacted Concrete Pavements, 2022
* **Indian Roads Congress (IRC):** Drafting of Compendium on Maintenance Practices, H-6 Committee, 2022
* **DST-TIFAC:** Drafting of Report on Self-Healing Roads, 2022

**NATIONAL/INTERNATIONAL EVENTS ORGANIZED**

* First Round Table Conference on Effective Construction and Demolition (C&D) Waste Management in India, Jan 30, 2023
* TLC 2 workshop, Jan 30-Feb 3, 2023
* **RILEM** RYC International Peer-to-Peer Webinar on Sustainability through Durability on March 24, 2022
* **UKIERI-India-UK Joint Workshop** on Concrete Waste Recycling on Feb 18, 2022
* 2-Days International Workshop on Advances in Technologies for Low-Carbon & Lean Construction on Dec 10-11, 2021
* **RILEM PhD Symposium** on Construction Materials on Sept 24, 2021
* International Workshop on Pavement Engineering and Road Safety – Theory to Practice, Aug 31, 2021
* Indian Concrete Institute (ICI), Chennai Centre, Use of Innovative Materials for Concrete Applications on May 29, 2021

**PEER-REVIEWED PUBLICATIONS IN REPUTED JOURNALS**

1. Bibhuti Bhusan Bhardwaj, **Surender Singh**, and Sumukh Swaroop (2025), “Role of asphalt binder film thickness on the behaviour of RAP-incorporated concrete” *Construction and Building Materials*, **Elsevier**. Vol. 473, DOI: [10.1016/j.conbuildmat.2025.141012](https://doi.org/10.1016/j.conbuildmat.2025.141012)
2. Bibhuti Bhusan Bhardwaj, Suraj Sadasivan, **Surender Singh**, and Monu Kumari (2025), “Tolerance Level of Bricks in Recycled Concrete Aggregates” **Transportation Research Record: Journal of the Transportation Research Board,** DOI:[10.1177/03611981251327201](https://doi.org/10.1177/03611981251327201) (In press)
3. Bibhuti Bhusan Bhardwaj and **Surender Singh** (2024), “Evaluation of the failure planes in concrete containing reclaimed asphalt pavement (RAP) aggregates” *Cement and Concrete Composites*, **Elsevier**. Vol. 145. DOI: [10.1016/j.cemconcomp.2023.105334](https://www.sciencedirect.com/science/article/pii/S0958946523004080?via%3Dihub)
4. Selvam, M., and **Surender Singh** (2024), “Sensitivity analysis of gyratory compactor variables to mimic roller compacted concrete pavement performance” *International Journal of Pavement Engineering*, **Taylor & Francis**, Vol 25(1). DOI: [10.1080/10298436.2024.2308792](https://www.tandfonline.com/doi/full/10.1080/10298436.2024.2308792)
5. Rampal and **Surender Singh**, (2024). “Role of Impact and Compression-Based Crushing on the Physical, Chemical, and Morphological Characteristics of Recycled Concrete Aggregates”. *Journal of Materials in Civil Engineering*, **American Society of Civil Engineers, ASCE,** Vol.36(5). DOI: [10.1061/JMCEE7.MTENG-17400](https://ascelibrary.com/doi/10.1061/JMCEE7.MTENG-17400)
6. Bibhuti Bhusan Bhardwaj, **Surender Singh**, and Pote Naik (2024), “Suitability Assessment of Alternative Sands for Concrete Pavement Applications”. *Journal of Materials in Civil Engineering*, **American Society of Civil Engineers, ASCE,** Vol. 36(5), DOI: [10.1061/JMCEE7.MTENG-17163](https://ascelibrary.org/doi/full/10.1061/JMCEE7.MTENG-17163)
7. Moh. Shoeb, Ramesh Kannan Kandasami, **Surender Singh**, and Sumy Sebastian, (2024), “Framework for Treatment of Immature and Mature Coconut Coir Fibres through Physico-Chemical Techniques”. *Journal of Geosynthetics and Ground Engineering*. **Springer**, Vol 10, Article number 19. DOI: [10.1007/s40891-024-00529-3](https://link.springer.com/article/10.1007/s40891-024-00529-3)
8. Selvam, M., and **Surender Singh** (2024), “Tailoring of Compaction Parameters of Vibratory Table and Vibratory Hammer for Roller Compacted Concrete Pavements to Resemble Field Properties” **Transportation Research Record: Journal of the Transportation Research Board,** Vol. 2678(5).DOI:[10.1177/036119812311887](https://journals.sagepub.com/doi/epub/10.1177/03611981231188719)19
9. Selvam, M., Major Nitesh Kumar, and **Surender Singh** (2024), “Comparative Analysis of Jointed Plain Concrete Pavement and Roller Compacted Concrete Pavement” **Transportation Research Record: Journal of the Transportation Research Board,** Vol. 2678(5).DOI: [10.1177/03611981231188722](https://doi.org/10.1177/03611981231188722)
10. Mamatha Kasuri, **Surender Singh**, and Bibhuti Bhusan Bhardwaj (2023), “Optimization of Slurry Impregnation Technique for Upcycling Carbonated Recycled Concrete Aggregates for Paving Concrete Applications” *Journal of Materials in Civil Engineering,* **American Society of Civil Engineers, ASCE,** Vol. 35 (5).DOI:[10.1061/(ASCE)MT.1943-5533.0004712](https://doi.org/10.1061/(ASCE)MT.1943-5533.0004712)
11. Selvam, M. and **Surender Singh** (2023), “Influence of Compaction Methods on the Optimum Moisture Content and Performance of Roller Compacted Concrete Pavements” *Journal of Materials in Civil Engineering,* **American Society of Civil Engineers, ASCE.** Vol. 35 (7),DOI: [10.1061/JMCEE7.MTENG-15680](https://doi.org/10.1061/JMCEE7.MTENG-15680)
12. Selvam, M., and **Surender Singh** (2023), “Review on Influence of Compaction Mechanisms on RCCP Performance”, *American Concrete Institute Materials Journal*, ACI. Vol. 120 (1), pp. 155-168 DOI: [10.14359/5173729](https://www.concrete.org/publications/internationalconcreteabstractsportal.aspx?m=details&i=51737290)
13. Selvam, M., **Surender Singh** and Anjana A.G. (2023), “Enhancing the Performance of Roller-Compacted Concrete Pavement by Synergetic Improvement of Packing Density, Lubrication, and Moisture State of Recycled Concrete Aggregate” **Transportation Research Record: Journal of the Transportation Research Board,** Vol. 2677 (6),DOI: [10.1177/03611981221149427](https://doi.org/10.1177/03611981221149427)
14. Selvam, M., and **Surender Singh** (2023), “Comparative Investigation of Laboratory and Field Compaction Techniques for Designing Roller Compacted Concrete Pavements (RCCP)” ***International Journal of Pavement Engineering, Taylor & Francis***, Vol 24(1). DOI: [10.1080/10298436.2023.2177850](https://doi.org/10.1080/10298436.2023.2177850)
15. Selvam, M., Kalyan NSSP, Ramesh Kannan K., and **Surender Singh** (2023), “Assessing the effect of different compaction mechanisms on the internal structure of roller compacted concrete” *Construction and Building Materials*, **Elsevier**. Vol. 365, DOI: [10.1016/j.conbuildmat.2022.130072](https://doi.org/10.1016/j.conbuildmat.2022.130072)
16. Rohit Prajapati, Stefie Stephen J., Ravindra Gettu, and **Surender Singh**, (2023), “Effect of Thermomechanically Beneficiated Recycled Concrete Aggregates on the Mechanical and Durability Characteristics of Concrete” **The Indian Concrete Journal**, [Vol 97 (10), pp. 9-19.](https://www.scopus.com/record/display.uri?eid=2-s2.0-85175803192&origin=resultslist)
17. Zerbino, Raul Luis, Juan Carlos Vivas Montes, Ronald Cruz Felipe, Maria Celeste Torrijos, Francisco Hours, Graciela Marta Giaccio, Someen Khute, and **Surender Singh**, (2023), "Strength and impact behavior of paving concrete incorporating discarded coconut coir fibres" **The Indian Concrete Journal**, [Vol. 97 (9) pp.48-57](https://www.scopus.com/record/display.uri?eid=2-s2.0-85173544717&origin=resultslist).
18. Someen Khute, **Surender Singh**, Raul Zerbino, and Ravindra Gettu, (2022) “Fresh-State Behavior of Paving Concrete Reinforced with Discarded Coconut Coir Fibres” **The Indian Concrete Journal**, [Vo. 96 (12), pp. 5-13.](https://www.scopus.com/record/display.uri?eid=2-s2.0-85145661245&origin=resultslist&sort=plf-f)
19. Rohit Prajapati, Ravindra Gettu, **Surender Singh**, and BK Jayasimha Rathod (2022), “A novel beneficiation process for producing high-quality recycled concrete aggregates using concentrated solar energy" *Materials and Structures*, **Springer**, Vol 55, Issue no. 9, pp 1-11. [DOI: 10.1617/s11527-022-02065-w](https://doi.org/10.1617/s11527-022-02065-w)
20. Nitish Kumar, Ramesh Kannan K, and **Surender Singh** (2022), “Effective Utilization of Natural Fibres (Coir and Jute) for Sustainable Low-Volume Rural Road Construction – A Critical Review” *Construction and Building Materials,* **Elsevier**. Vol. 347, [DOI: 10.1016/j.conbuildmat.2022.128606.](https://www.sciencedirect.com/science/article/pii/S0950061822022632)
21. M. Selvam, M., Solomon Debbarma, **Surender Singh**, and Xijun Shi (2022), “Utilization of alternative aggregates for roller compacted concrete pavements–A state-of-the-art review” *Construction and Building Materials*, **Elsevier**. Vol. 317, [DOI: 10.1016/j.conbuildmat.2021.125838](https://www.sciencedirect.com/science/article/pii/S0950061821035716).
22. M. Selvam, and **Surender Singh** (2022), “Material Selection and Mixture Proportioning Methods for the Sustainable Roller Compacted Concrete Pavements” *Journal of Materials in Civil Engineering,* **American Society of Civil Engineers, ASCE,** Vol. 34, Issue 11, pp 03122002. [DOI:10.1061/(ASCE)MT.1943-5533.0004325](https://ascelibrary.org/doi/full/10.1061/%28ASCE%29MT.1943-5533.0004325).
23. Rohit Prajapati, Ravindra Gettu and **Surender Singh**, (2021), “Thermomechanical beneficiation of recycled concrete aggregates (RCA)”, *Construction and Building Materials*, **Elsevier**. Vol. 306, 125200. [DOI: 10.1016/j.conbuildmat.2021.125200.](https://www.sciencedirect.com/science/article/pii/S0950061821029445)
24. Ran Bir Singh, Solomon Debbarma, Navanit Kumar and **Surender Singh**, (2021), “Hardened State Behaviour of Self-Compacting Concrete Pavement Mixes containing Alternative Aggregates and Secondary Binders”, *Construction and Building Materials*, **Elsevier**. Vol. 266, Part A. [DOI: 10.1016/j.conbuildmat.2020.120624](https://www.sciencedirect.com/science/article/pii/S0950061820326295).
25. Solomon Debbarma, G.D. Ransinchung R.N. and **Surender Singh**, (2021), “Suitability of various Supplementary Cementitious Admixtures for RAP inclusive RCCP mixes”, *International Journal of Pavement Engineering*, **Taylor and Francis**. Vol 22, Issue 12, pp. 1568- 158. [DOI: 10.1080/10298436.2019.1703981](https://www.tandfonline.com/doi/full/10.1080/10298436.2019.1703981).
26. **Surender Singh**, and G.D.Ransinchung R.N, (2020), “Laboratory and Field evaluation of RAP for cement concrete pavements”, *Journal of Transportation Engineering Part B: Pavements*, **American Society of Civil Engineers**, ASCE. Vol. 146, Issue 2, pp. 04020011-1 to 04020011-11. [DOI: 10.1061/JPEODX.0000162](https://ascelibrary.org/doi/full/10.1061/JPEODX.0000162).
27. **Surender Singh**, Monu Kumari, and G.D.Ransinchung R.N, (2020), “Laboratory investigation of RAP for various layers of flexible and concrete pavement”, International Journal of Pavement Engineering, Taylor and Francis. Vol. 21, Issue 14, pp. 1780-1793. [DOI: 10.1080/10298436.2019.1567920](https://www.tandfonline.com/doi/full/10.1080/10298436.2019.1567920).
28. Solomon Debbarma, G.D. Ransinchung R.N. and **Surender Singh**, (2020), “Improving the properties of RAP-RCCP mixes by incorporating supplementary cementitious mineral admixtures as part addition of Portland Cement”, *Journal of Materials in Civil Engineering*, **American Society of Civil Engineers**, ASCE, Vol. 32, Issue 8, pp. 04020229-1 to 04020229-12. [DOI: 10.1061/(ASCE)MT.1943-5533.0003283](https://ascelibrary.org/doi/full/10.1061/%28ASCE%29MT.1943-5533.0003283).
29. Solomon Debbarma, G.D. Ransinchung R.N. and **Surender Singh**, (2020), “Zinc waste as a substitution of portland cement in roller compacted concrete pavement mixes containing RAP aggregates”, *Journal of Materials in Civil Engineering*, **American Society of Civil Engineers**, ASCE, Vol. 32, Issue 8, pp. 04020207-1 to 04020207-12. [DOI: 10.1061/(ASCE)MT.1943-5533.0003278.](https://ascelibrary.org/doi/10.1061/%28ASCE%29MT.1943-5533.0003278)
30. Kumari Monu, G.D. Ransinchung R.N., G.S. Pandey and **Surender Singh**, (2020), “Performance Evaluation of Recycled Concrete Aggregates and Reclaimed Asphalt Pavements for Foam Mix Asphalt Mixes”. *Journal of Materials in Civil Engineering*, **American Society of Civil Engineers**, ASCE, Vol. 32, Issue 10, pp. 04020295-1 to 04020295-12. [DOI: 10.1061/(ASCE)MT.1943-5533.0003356.](https://ascelibrary.org/doi/full/10.1061/%28ASCE%29MT.1943-5533.0003356)
31. Solomon Debbarma, G.D. Ransinchung R.N. **Surender Singh** and Surya K. Sahdeo (2020) “Utilization of industrial and agricultural wastes for productions of sustainable roller compacted concrete pavement mixes containing reclaimed asphalt pavement aggregates”, *Resources, Conservation & Recycling*, **Elsevier**, Vol. 152. [DOI: 10.​1016/​j.​resconrec.​2019.​104504](https://www.sciencedirect.com/science/article/pii/S0921344919304100).
32. Solomon Debbarma, Selvam M. and **Surender Singh**, (2020), “Can Flexible Pavements’ waste (RAP) be utilized in Cement Concrete Pavements? – A Critical Review”, *Construction and Building Materials*, **Elsevier**, Vol. 259. [DOI: 10.1016/j.conbuildmat.2020.120417](https://www.sciencedirect.com/science/article/pii/S0950061820324223).
33. Kumari Monu, G.D. Ransinchung R.N., **Surender Singh** and Gaurav Singh Raghav, (2020) “Recycling of Waste Originating from Flexible Pavements for Bound-Base Courses of Flexible Pavements”, *The Journal of Solid Waste Technology and Management*. Vol. 46 Issue 3, pp. 394-408. [DOI: 10.5276/JSWTM/2020.394](https://www.ingentaconnect.com/content/jswt/jswt/2020/00000046/00000003/art00012;jsessionid=47pofpe4cjnk3.x-ic-live-01).
34. **Surender Singh**, G.D.Ransinchung R.N. and Monu Kumari, (2019) “Sustainable Lean Concrete Mixes Containing Wastes Originating from Roads and Industries”, *Construction and Building Materials*, **Elsevier**, Vol. 209, pp. 619-630. [DOI: 10.1016/j.conbuildmat.2019.03.122](https://www.sciencedirect.com/science/article/pii/S0950061819306002).
35. Solomon Debbarma, **Surender Singh** and G.D. Ransinchung R.N., (2019) “Laboratory Investigation on Fresh, Mechanical and Durability Properties of RCCP containing RAP.” ***Journal of Transport Research Record***, Vol. 2673 (10), pp. 652-662. TRR. [DOI: 10.1177/0361198119849585](https://journals.sagepub.com/doi/10.1177/0361198119849585).
36. **Surender Singh**, G.D.Ransinchung R.N., and Praveen Kumar, (2019), “Feasibility study of RAP aggregates in cement concrete pavements” *Road Materials and Pavement Design*, **Taylor & Francis**, Vol. 20, Issue 1, pp. 151-170. [DOI: 10.1080/14680629.2017.1380071](https://www.tandfonline.com/doi/full/10.1080/14680629.2017.1380071).
37. Solomon Debbarma, G.D.Ransinchung R.N., and **Surender Singh**, (2019), “Feasibility of Roller Compacted Concrete Pavement containing different fractions of Reclaimed Asphalt Pavement”, *Construction and Building Materials*, **Elsevier**, Vol. 199, pp. 508-525. [DOI: 10.1016/j.conbuildmat.2018.12.047](https://www.sciencedirect.com/science/article/pii/S0950061818330289).
38. Kumari Monu, G.D.Ransinchung R.N., and **Surender Singh**, (2019), “Effect of long term ageing on properties of RAP inclusive WMA Mixtures” *Construction and Building Materials*, **Elsevier**, Vol. 206, pp. 483-493. [DOI: 10.1016/j.conbuildmat.2019.02.087](https://www.sciencedirect.com/science/article/pii/S0950061819303824).
39. **Surender Singh**, G.D.Ransinchung R.N., and Praveen Kumar, (2018), “Performance evaluation of RAP concrete in aggressive environments”, *Journal of Materials in Civil Engineering*, **American Society of Civil Engineers**, ASCE, Vol. 30, Issue 10, pp. 04018231-1 to 04018231-12. [DOI: 10.1061/(ASCE)MT.1943-5533.0002316](https://ascelibrary.org/doi/full/10.1061/%28ASCE%29MT.1943-5533.0002316).
40. **Surender Singh**, Dhawal Shintre, G.D.Ransinchung R.N., and Praveen Kumar, (2018), “Performance of fine RAP concrete containing flyash, silica fume and bagasse ash”, *Journal of Materials in Civil Engineering*, **American Society of Civil Engineers**, ASCE, Vol. 30, Issue 10, pp. 04018233-1 to 04018233-11. [DOI: 10.1061/(ASCE)MT.1943-5533.0002408](https://ascelibrary.org/doi/10.1061/%28ASCE%29MT.1943-5533.0002408).
41. **Surender Singh**, G.D.Ransinchung R.N., and Praveen Kumar, (2018), “Laboratory Investigation of Concrete Pavements containing Fine RAP Aggregates”, *Journal of Materials in Civil Engineering*, **American Society of Civil Engineers**, ASCE, Vol. 30, Issue 2, pp. 04017279-1 to 04017279-9. [DOI: 10.1061/(ASCE)MT.1943-5533.0002124](https://ascelibrary.org/doi/10.1061/%28ASCE%29MT.1943-5533.0002124).
42. **Surender Singh**, and G.D.Ransinchung R.N, (2018), “Durability Properties of Pavement Quality Concrete Containing Fine RAP” *Advance*s *in Civil Engineering Materials*, **American Society of Testing Materials**, ASTM Internationals. Vol. 7, Issue 1, pp. 271-290, [DOI: 10.1520/ACEM20180012](https://www.astm.org/acem20180012.html).
43. **Surender Singh**, G.D.Ransinchung R.N., Kumari Monu, and Praveen Kumar, (2018), “Laboratory Investigation of RAP Aggregates for Dry Lean Concrete Mixes”, *Construction and Building Materials*, **Elsevier**, Vol. 166, pp. 808-816, [DOI: 10.1016/j.conbuildmat.2018.01.131](https://www.sciencedirect.com/science/article/pii/S0950061818301545).
44. **Surender Singh**, G.D.Ransinchung R.N., Solomon Debbarma, and Praveen Kumar, (2018), “Utilization of reclaimed asphalt pavement aggregates containing waste from Sugarcane Mill for production of concrete mixes”, *Journal of Cleaner Production*, **Elsevier**, Vol. 174, pp. 42-52, [DOI: 10.1016/j.jclepro.2017.10.179](https://www.sciencedirect.com/science/article/pii/S0959652617324861).
45. Kumari Monu, G.D.Ransinchung R.N., and **Surender Singh**, (2018), “A Laboratory Investigation on Dense Bituminous Macadam containing different fractions of coarse and fine RAP” *Construction and Building Materials*, **Elsevier**, Vol. 191, pp. 655-666, [DOI: 10.1016/j.conbuildmat.2018.10.017](https://www.sciencedirect.com/science/article/pii/S0950061818324152).
46. **Surender Singh**, G.D.Ransinchung R.N., and Praveen Kumar, (2017), “Effect of mineral admixtures on fresh, mechanical and durability properties of RAP inclusive concrete”, *Construction and Building Materials*, **Elsevier**, Vol. 156, pp. 19-27, [DOI: 10.1016/j.conbuildmat.2017.08.144.](https://www.sciencedirect.com/science/article/pii/S095006181731752X)
47. **Surender Singh**, G.D.Ransinchung R.N., and Praveen Kumar, (2017), “An economical processing technique to improve RAP inclusive concrete properties”, *Construction and Building Materials*, **Elsevier**, Vol. 148, pp. 734-747, [DOI: 10.1016/j.conbuildmat.2017.05.030](https://www.sciencedirect.com/science/article/pii/S0950061817309224).
48. **Surender Singh**, G.D.Ransinchung R.N., and S.M. Abraham, (2016), “Feasibility of RAP in rigid pavement slab - A review”, *Journal of the Indian Road Congress*, IRC, Vol. 77, Issue 1, pp. 315-322.
49. **Surender Singh**, G.D.Ransinchung R.N., S.N. Sachdeva, Praveen Kumar, and M. Parida, (2016), “Effect of modulus of subgrade reaction on thickness of rigid pavement- A case study”, *Journal of Indian Road Congress*, IRC, Vol. 76, Issue 4, pp. 239-248.

**CONFERENCE PROCEEDINGS/PRESENTATIONS/CHAPTERS**

1. Solomon Debbarma, Beng Wei Chong, Xijun Shi, Surender Singh, and Alexander S. Brand (2024), “Sustainable recycled aggregate concrete materials and structures”. In Sustainable Concrete Materials and Structures, pp. 145-192. Woodhead Publishing, 2024. DOI: [10.1016/B978-0-443-15672-4.00007-3](https://www.sciencedirect.com/science/article/abs/pii/B9780443156724000073?via%3Dihub)
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3. Selvam, M., Solomon Debbarma, and **Surender Singh**. (2023)"Industrial and Agro-Based Wastes as Alternative Binders in Roller Compacted Concrete Pavements: A Comprehensive Review." In International Conference on Transportation Infrastructure Projects: Conception to Execution, Vol. 354. pp. 79-89. Springer, Singapore. DOI: 10.1007/978-981-99-3142-2\_7
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