

Dr. V. Sarath Babu

Assistant Professor(SG)

Education: B.Tech. M.Tech., Ph.D.

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Areas of Interest: High way Engg, Mass Transportation, Transportation planning, Traffic Engineering, Design of flexible & Rigid pavements, Recycled aggregate concrete and areas related to concrete technology.

Brief Profile:

Dr. V. Sarath Babu did his Diploma in Civil Engg from Andhra polytechnic, KAKINADA (A.P). After that he did his B.Tech. in Civil Engg from Sri Venkateswara University College of Engineering, TIRUPATI (A.P.) and M.Tech in Transportation Engineering from Shri G.S. Institute of Technology & Science, Indore (M.P.). He has done Ph.D. (Civil Engineering) from Jaypee University of Engineering and Technology, Guna.

He has attended & presented technical papers in many national level symposiums conducted by various Institutes. He had been granted Merit Scholarships & GATE scholarship during his professional studies.

He has twelve years of teaching experience in various organizations of repute for UG courses of Civil engineering and taught various subjects. Many students of Civil engineering have been developed their projects under his guidance. He has site experience in Construction of Highways, Canals & Multi-storey buildings. His areas of interest are High way Engg, Traffic Engineering & Transportation planning, Design of flexible & Rigid pavements, Recycled aggregate concrete and areas related to concrete technology. He has published many research papers in various journals. He is member of Indian road Congress (I.R.C.) India.

Ph.D. Supervision**Completed - 01**

[1] Mr Abhishek Verma (Enrollment No. 163D003), "CONCRETE PROPERTIES USING PRE-TREATED RECYCLED AGGREGATES AND MODIFIED TWO-STAGE MIXING APPROACHES" .

Ongoing - 04

[1] Kaushik Majumdaar (183D001), "INFLUENCE OF CURING METHODS ON HIGH PERFORMANCE CONCRETE " . (ongoing).

[2] Akshay Sharma (203D001), "REPLACEMENT OF RIVER SAND WITH COAL BOTTOM ASH (CBA) IN CONCRETE" . (ongoing)

[3] Ashutosh Shishodia (213D002), "PROPERTIES OF HIGH STRENGTH CONCRETE MADE WITH TREATED RECYCLED AGGREGATE" . (ongoing)

[4] Ravindra kumar Giliya, (163D004) "INFLUENCE OF DOUBLE PROCESSED RECYCLED AGGREGATE ON THE PROPERTIES OF CONCRETE" . (ongoing)

M.Tech. Supervision

Completed - 01

[1] Ashutosh Shishodia (192D001) "Utilization of plastic aggregate in the construction of flexible pavements" , 2021.

Research Association

[1] Editorial Reviewer's Board, Indian Concrete Institute journal, r, Chennai. India.

Awards and achievements

1. Gate qualified in 2002

Membership of Professional Bodies

(i) Life Member of Indian Road Congress (IRC), New Delhi, India.

Contribution/ Participation in Departmental Activities & Development:

1. Member secretary for Board of Studies (BOS) of Civil Engineering Department (since June 2017 to till date).
2. Time table coordinator for Civil Engineering Department (since June 2019 to till date).

Workshops and Seminars organized

1. Organized one day international seminar on "Career opportunities in transportation engineering" (dated: 19.09.2020) at JUET Guna, MP, India.
2. Organized one day international seminar on " Highway Infrastructure: Planning & Construction " (dated: 19.07.2020) at JUET Guna, MP, India.

Publication@JUET

[Publication details google profile link](#)

[1] Ravindra Kumar Goliya and Â· V. S. Babu, (2023) "Performance evaluation of concrete made with double-processed recycled aggregate (DPRA): mechanical grinding and silica fume impregnation technique", Journal of Material Cycles and Waste Management (Springer- SCI), DOI: <https://doi.org/10.1007/s10163-023-01592-0>, Vol: Jan 2023, pp:1-19.

[2] Verma, A., Sarath Babu velaga and Arunachalam, S., (2022), "Performance evaluation of concrete using treated recycled aggregates modified with mineral admixtures- Influence of processing", European Journal of Environmental and Civil Engineering, Taylor & Francis, DOI: 10.1080/19648189.2022.2070285, pp:1-35.

[3] Abhishek Verma, Velaga Sarath Babu and Arunachalam S. (2022), "Influence of modified two-stage mixing approaches on recycled aggregate treated with a hybrid method of treatment", Australian Journal of Structural Engineering (Taylor & Francis), DOI: 10.1080/13287982.2022.2048479, <https://doi.org/10.1080/13287982.2022.2048479>

[4] Verma, A., Sarath Babu, V., & Arunachalam, S. (2022) Influence of acetic acid soaking and mechanical grinding treatment on the properties of treated recycled aggregate concrete. Journal of Material Cycles and Waste Management, Vol.1(22), pp.1-23, <https://doi.org/10.1007/s10163-022-01360-6>.

- [5] Abhishek Verma., VelagaSarathBabu, and SrinivasanArunachalam. "Influence of mixing approaches on strength and durability properties of treated recycled aggregate concrete." *Structural. Concrete.* (Jun): 1-22, 2020(SCI-E)
- [6] Abhishek Verma., VelagaSarathBabu, and Srinivasan Arunachalam. "Strength and Durability Properties of Treated Recycled Aggregate Concrete by Soaking and Mechanical Grinding Method: Influence of Processing Technique." *Journal of materials in civil engineering (American Society of Civil Engineers).*(Accepted)DOI: 10.1061/(ASCE)MT.1943-5533.0003908(SCI-E)
- [7] Abhishek Verma., VelagaSarathBabu, and Srinivasan Arunachalam. "Characterization of recycled aggregate by the combined method: Acid soaking and mechanical grinding technique." *Journal of materials in civil engineering Materials Today Proceedings (Elsevier).* <https://doi.org/10.1016/j.matpr.2021.01.842>(Scopus indexed).
- [8]. Babu, V.S., Mullick, A.K., Jain, K.K. and Singh, P.K. (2014), Strength and durability characteristics of high-strength concrete with recycled aggregate-Influence of mixing techniques, *Journal of Sustainable Cement-Based Materials*, Vol.03, No.02, pp.88-110. DOI:10.1080/21650373.2013.874302.
- [9]. Babu, V.S., Mullick, A.K., Jain, K.K. and Singh,P.K. (2014), Mechanical properties of high-strength concrete with recycled aggregate-Influence of processing, *Indian Concrete Journal*, Vol. 88, No.05, pp. 10-26.
- [10]. Babu, V.S., Mullick, A.K., Jain, K.K. and Singh,P.K. (2014), Mechanical properties of high- strength concrete with processed recycled aggregate - Influence of mixing techniques, *Indian Concrete Journal*, Vol. 88, No.10, pp. 42-56.
- [11]. Babu, V.S., Mullick, A.K., Jain, K.K. and Singh,P.K. (2014),Strength and durability characteristics of high-strength concrete with recycled aggregate - Influence of processing, *Journal of Sustainable Cement based Materials*, Vol.04, No.01, pp.54-71. DOI: 10.1080/21650373.2014.976777.
- [12]. Parag Agarwal, Naman Dubey, Mullick, A.K., Babu, V.S. (2014), Fine fractions of recycled concrete as sand replacement, *Indian Concrete Journal*, Vol. 88, No.10, pp. 80-86.
- [13]. Mullick, A.K., Jain, K.K., Singh,P.K. and Babu, V.S. (2014), Enhancement of aggregate-related characteristics of high strength concrete with recycled aggregate, *The 6th International Conference of Asian Concrete Federation (ACF)*, 21-24 September, Seoul, Korea, pp.36-37.

Books Published

- (1) Velaga Sarath Babu, "Properties Of High-Strength Concrete Utilizing Recycled Aggregate" published by LAMBERT Academic Publishing, Germany, (ISBN: 978-3-659-75118-9), 2015.
- (2) Velaga Sarath Babu, "Improvement of Black Cotton Soil Properties using By-products and Lime" published by LAMBERT Academic Publishing, Germany, (ISBN: 978-3-659-75566-8), 2015.