

BRIEF PROFILE

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Date of Joining at SVNIT, Surat : 17/11/2006

Highest Qualification : M.E. Civil Engineering
(Highway and Transportation Engineering)
The M.S.University of Baroda, Vadodara

Total teaching experience : 21 years

Areas of Expertise:

- Pavement Materials
- Pavement Analysis and Design
- Pavement Evaluation and Maintenance
- Surveying

Subjects taught:

- At Postgraduate and Doctoral Programme:
 - Highway Materials and Construction
 - Pavement Analysis and Design
 - Operation and Maintenance Management of Pavements
- At Undergraduate Programme:
 - Highway Engineering
 - Surveying
 - Geomatics Surveying
 - Basic Transportation Engineering
 - Engineering Drawing

Consultancy services rendered to:

- Member, State Technical Agency, Gujarat for PMGSY
- Surat Municipal Corporation, Surat
- Airport Authority of India (Surat, Vadodara, Ahmedabad, Rajkot, Indore, Dholera, ICGS)
- Surat Urban Development Authority (SUDA), Surat
- Roads & Building Department, Government of Gujarat
- NHAI
- NBCC & many private organisations.

Consultancy services in the areas of:

- Flexible Pavement Design
- Rigid Pavement Design
- Pavement condition assessment
- Recommendation of pavement maintenance techniques
- Bituminous Mix Design (with conventional materials)
- Bituminous Mix Design (using non-conventional materials like Reclaimed Asphalt Pavement, Warm Mix Asphalt, Cold Mix, Plastic waste)
- Design of mixes for unbound layers

- Soil Stabilisation
- Third Party Inspections for various roads constructed by SMC, SUDA, R&B, NBCC etc.

Conferences, Training Programmes organized:

1. National Conference on Sustainable Urban Transportation: Issues and Management Strategies, 2007
2. Short Term Training Programme on Pavement Design and Management Systems, 2008-09
3. National Workshop on Approach & Methodology for Urban Traffic Flow Behaviour Study, 2010
4. Short Term Training Programme on Road Planning, Design, Construction, Operation, Evaluation and Rehabilitation, 2016
5. Workshop on Hands-on Training of MxRoad Software for Geometric Design of Highways, 2019

List of M.Tech. Dissertation guided:

Sr. No.	Roll No.	Name of Student	Dissertation Title
1.	P06PL411	Siddhpuria Siddharth R.	A study on trip rates and trip predictions of households in newly extended area of Surat city
2.	P09TP453	Mr. Sandipkumar Vadasibhai Chaudhari	Development of system maintenance strategies for flexible pavement by perception modelling
3.	P13TP001	Utkarsh Upadhyay	Laboratory evaluation of effects of different mix gradations on performance of dense graded bituminous mixes
4.	P13TP004	Tapan Khandelwal	Analysis of flexible pavement considering non-linear behaviour of granular layer in low volume roads
5.	P13TP006	Ritika Mishra	Mechanistic properties evaluation of cement fly ash bound base course
6.	P13TP015	Kishor kumar	Laboratory study on effects of different stabilizers for expansive soil as subgrade material
7.	P13TP016	Aniket A. shirke	Laboratory evaluation of short term ageing effects on behaviour of bitumen
8.	P14TP004	Kamlendra kumar Gautam	Laboratory study of effects of sewage sludge and lime on clayey soil as subgrade material
9.	P14TP012	Kanemozhe R.K.	Evaluating the effects of geosynthetics in reduction of reflective cracking
10.	P14TP019	Bhupal Welke	Laboratory performance evaluation of warm mix asphalt
11.	P15TP003	Kardani Denish	Laboratory evaluation of warm mix asphalt using wax based organic additive
12.	P15TP005	Chitranshu Mathur	Laboratory evaluation of bituminous mixes containing reclaimed asphalt pavement with polymer modified bitumen
13.	P15TP015	Rupesh R. Ingole	A laboratory study of induction heating on healing of cracks-graded bituminous mixes using steel wool
14.	P15TP019	Raval Khushbu R.	Laboratory study on effect of bio-enzyme and lime on expansive soil as subgrade material
15.	P16TP001	Barnwal Sumit Umashankar	Optimization of conductive filler in bituminous mix for self-healing through induction technology
16.	P16TP004	Sai Chandra Pisipati	Design of a perpetual asphalt pavement
17.	P16tp006	Kotadiya Jigar Himatlal	Utilization of EAF steel slag in open graded friction course
18.	P16TP013	Priyansh Rami	Moisture sensitivity and rutting performance of foamed bitumen mixes incorporating reclaimed asphalt pavements
19.	P16TP017	Henil Rathod	Laboratory evaluation of warm mix asphalt using chemical additive zycotherm
20.	P16TP019	Kinjal Gaikwad	Influence of plastic and cellulose fibre additives on stone matrix asphalt
21.	P17TP005	Vaibhav Gupta	Performance study dense graded bituminous mix with smaller nominal aggregate size

22.	P17TP014	Manish kumar Bairagi	Utilisation of shredded waste plastic in bituminous mix
23.	P17TP017	Shyamli H Pande	Laboratory investigation of cement grouted bituminous mixes
24.	P17TP020	Rubui Debbarma	Structural evaluation of in-service thin white topping using falling weight deflectometer
25.	P18TP001	Akanksha Guleria	Effect of Overloading on Flexible Pavement
26.	P18TP002	Shah Yash Ashokji	Effect of polypropylene fibers on clayey soil modified with lime
27.			

List of Publications:

1. Effect of bitumen modifiers on properties of bituminous mix using conventional bitumen and various modified bitumen- A laboratory study, March 2006, National Conference on Civil Engineering – Trends, Issues and Challenges, The M.S. University of Baroda.
2. Non-motorised mode in sustainable transportation, December 2007, National Conference on Sustainable Urban Transportation: Issues and Management Strategies, SVNIT, Surat
3. Recognising the measures to improve road safety, December 2007, National Conference on Sustainable Urban Transportation: Issues and Management Strategies, SVNIT, Surat
4. Utilisation of low density polyethylene in modifying paving bitumen, February 2009, International Conference on Pavement Engineering, CET, Bhubaneswar
5. Use of steel slag in bituminous mix for road construction, February 2009, International Conference on Pavement Engineering, CET, Bhubaneswar
6. Evaluation of RBI Grade 81 for stabilization of expansive soil as subgrade material, October 2017, Sciencedirect, Materials Today-Proceedings-Elsevier
7. Effect of conditioning procedures on moisture susceptibility of foamed cold mix asphalt mixtures, August 2023, Journal of Testing and Evaluation 51, ASTM
8. Mechanical characterization of Rice Husk Ash incorporated bituminous concrete, June 2024, Innovative Infrastructure Solutions, Springer Nature, Switzerland
9. Performance Evaluation of Bituminous Mixes containing RAP with PMB, July 2024, 13th Asia-Pacific Conference on Transportation and the Environment (APTE) held at the National University of Singapore, Singapore
10. Evaluation of permanent deformation in gap-graded bituminous mix incorporating waste dimensional limestone as a filler, July 2025, 3rd International Symposium on Pavement Functional Design and Management (PFDM2025), organised by the TU Delft, Netherlands
11. Performance of Bituminous Mixes Containing Recycled Asphalt Pavement with Polymer-Modified Binder (PMB), 2024, Lecture Notes in Civil Engineering, Springer