

BIO-DATA

Name	KOTA SITARAMANJANEYULU				
Occupation	Chief Scientist				
Organisation	Central Road Research Institute				
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E-Mail	sitaram.crri@nic.in , ksitaramcrri@yahoo.co.in				
Personal	Date of Birth : 02. 07. 1961 Citizenship : Indian Marital Status : Married				
Area of Specialization	Highway Engineering covering aspects of Highway Construction including quality control and technical inspection; Pavement Design; Pavement Performance Evaluation; Pavement Maintenance and Management				
Educational Qualifications	Higher level diploma in Science & Technology, 1993 from Birla Institute of Technology & Science, Pilani.				
	M. E. (Highway Engineering), 1988. Dissertation : “Recycling of Bituminous Pavement Materials” from Bangalore University.				
	B. E. (Civil Engineering) 1984, from Bangalore University.				
Professional Experience					
	From	To	Organisation	Employer	Designation
	Sept.1988	Sept.1993	CRR I	Director, CRR I	Scientist Gr. IV(1)
	Sept.1993	Sept.1998	CRR I	Director, CRR I	Scientist Gr. IV(2)
	Sept.1998	Sept.2003	CRR I	Director, CRR I	Scientist Gr. IV(3)
	Sept.2003	Sept.2009	CRR I	Director, CRR I	Scientist Gr. IV(4)
	Sept.2009	Sept.2015	CRR I	Director, CRR I	Scientist Gr. IV(5)
	Sept.2015	Till date	CRR I	Director, CRR I	Scientist Gr. IV(6)

<p>Scholarships / Fellowships / Awards</p>	<ul style="list-style-type: none"> • Selected under Indian National Science Academy-German Research Association (INSA-DFG) bilateral exchange program and deputed to Germany from 4.8.93 to 30.1.94. <p>During this trip, also visited and worked in the following Institutions/Universities/Organisations.</p> <p>a) Institute for Roads and Tunnel Engineering at University of Aachen, Germany</p> <p>b) Institute for Traffic Planning and Road Construction at University of Berlin</p> <p>c) Federal Highway Research Institute,</p> <p>d) TEERBAU Construction Company</p> <p>e) Dr. Volker Potschka Consultants</p> <p>Under this program opportunity was also utilised to visit the following institutions in other countries.</p> <p>Deptt. of Transportation and Highway Engineering Faculty of Civil Engineering, Delf University of Technology, Netherlands</p> <p>Road and Bridge Research Institute, Warszawa, Poland</p> <ul style="list-style-type: none"> • Selected for a fellowship by Directorate General for International Cooperation, Govt. of Belgium. Deputed to Belgium to attend a training course on 'Roads 2001 : Maintenance and Environmental Problems', conducted by Belgian Road Research Centre, Brussels from April 9th to May 18th 2001.
	<ul style="list-style-type: none"> • Awarded Commendation Certificate by Indian Roads Congress during the 67th Annual Session, 2006 held at Punchkula for Paper entitled "Pavement Maintenance Management System for Urban Roads Using Software HDM- 4 - a Case study"
	<ul style="list-style-type: none"> • Awarded Medal for Best Paper on Road Research (Instituted by Bihar PWD) by Indian Roads Congress during the 72nd Annual Session, 2011 held at Lucknow for the Research Paper entitled "Critical Evaluation of Roadway Capacity of Multi-Lane Speed Corridors under Heterogeneous Traffic Condition Through Traditional and Microscopic Simulation Models."
<p>Membership of Professional Bodies</p>	<p>Life member of Indian Roads Congress</p> <p>Life member of Indian Geo-technical Society (Delhi Chapter)</p> <p>Life member of Indian Society for Rock Mechanics and Tunneling Technology</p>

Position on Technical and National Committees	<ul style="list-style-type: none"> ➤ Member Secretary of H-6 committee of IRC on “Road Maintenance and Asset Management” (2012-2017) ➤ Member of H-2 committee of IRC on “Flexible Pavement” (2012-2014) ➤ Member of H-3 committee of IRC on “Rigid Pavement” (2012-2014) ➤ Member of H-9 committee of IRC on “Composite Pavement” (2012-2014) ➤ Member Secretary of H-2 committee of IRC on “Flexible Pavement” (2015-2017) ➤ Co-Convener of H-6 committee of IRC on “Road Maintenance and Asset Management” (2018-2020) ➤ Member of H-2 committee of IRC on “Flexible Pavement” (2018-2020) ➤ Member of CED-6 committee of BIS on “Stones Sectional Committee”(2009 - 2021) ➤ Member, Project Monitoring Committee constituted by Ministry of Environment & Forest (Clean Technology) for the Project entitled "Eco-Friendly Road Technology by Using RBI Grade 81" ➤ Member, Research Advisory Board, Centre of Excellence in Transportation Engineering, National Institute of Technology, Tiruchirappalli ➤ Member, Board of Governors, Bhagalpur College of Engineering ➤ Member(Alternate), Kerala Infrastructure Committee
Research Experience	Acted as Team Member and Project Leader and Project Coordinator in a large number of sponsored and consultancy projects relating to Pavement Performance, Investigation of Road Failures, Technical Audit and Third party Quality Assurance/Audit of Road Projects, Structural and Functional Evaluation of Pavements and Maintenance Management aspects.
Research Publications	About 50 publications in National and International Journals and Conferences (Pl. See Enclosure)
Other Professional Activities Research Guidance/ Supervision etc.	Professor, Academy of Scientific and Innovative Research, AcSIR, Visiting Professor, School of Planning and Architecture, SPA, New Delhi
Proficiency in Languages	English, Hindi, Kannada (Speak, Read, write) Telugu (Mother Tongue);

Non SCI/ Peer Reviewed Journals

1. P. K. Kanchan, B. M. Sharma and K. Sitaramanjanyulu, "A Rational Statistical Approach for Extrapolation of Existing Pavement Design Curves (IRC: 37-1984)", Indian Highway, Indian Roads Congress. Dec. 1995,
2. S. S. Naidu, Dr. P.K. Nanda, Pawan Kalla, Dr. P.K. Kanchan and K. Sitaramanjanyulu, "Pavement Maintenance Management System for Urban Roads Using Software HDM - 4 - A Case Study", Journal of Indian Roads Congress, 2005, Vol. 66(3).
3. Vasanth G. Havanigi, A. K. Sinha, P.S. Prasad, K. Sitaramanjanyulu and Sudhir Mathur, "Copper Slag as an Alternative Material for Road Construction", Journal of Solid Waste Technology and Management, Philadelphia, U S A, 2009
4. Velmurugan S., Errampalli M., Ravinder K., Sitaramanjanyulu K., and Gangopadhyay S., "Critical Evaluation of Roadway Capacity of Multi-Lane High Speed Corridors Under Heterogeneous Traffic Conditions through Traditional and Microscopic Simulation Models", Journal of Indian Roads Congress, India, 2010, Vol. No. 71(3), 2010, pp. 235-266.
5. Padma S., Velmurugan S., Errampalli M., Sitaramanjanyulu K., Gangopadhyay S., and Revathi A., "Modeling Occurrence and Severity of Road Crashes on Selected Multi-Lane Carriageways in India", Highway Research Journal, Indian Roads Congress, 2012, Vol. No. 5, Issue No. 2. PP27-32
6. Padma S., Velumurugan S., Madhu E., and Sitaramanjanyulu K., "Multinomial Logit Models for Modelling Accident Severity along Indian High Speed Corridors", International Journal of Civil Engineering Research, India, 2014
7. Shukla Manoj, Dr. Devesh Tiwari and K. Sitaramanjanyulu, "Performance Characteristics of Fibre Modified Asphalt Concrete Mixes", Journal of Pavement Engineering and Asphalt Technologies, UK, 2014, Vol. No. 15, Issue No. 1
8. Ashutosh Arun, Velumurugan S., K. Sitaramanjanyulu and K. Ravinder, "Statistical Relationship Between Mean Speed and Time Mean Speed on Multi-Lane Interurban Highways", Highways Research Journal, Indian Roads Congress 2017. Vol.8(1)
9. Amal Raj, Pradeep Kumar, and K. Sitaramanjanyulu, "Development of Correlation Between Roughness Index and International Roughness Index for Indian Conditions", Indian highways, Indian Roads Congress, May 2017

International Conferences

1. V. K. Sood B.M. Sharma and K. Sitaramanjanyulu, "Pavement Performance Study – An Input towards Development of Pavement Management System in India", Seventh Road Engineering Association of Asia and Australia, Singapore, June, 1992.
2. V. K. Sood, B. M. Sharma, P. K. Kanchan and K. Sitaramanjanyulu, "Pavement Deterioration Modeling in India", Third International Conference on Managing Pavements, Texas, USA, May, 1994,

3. B. M. Sharma, K. Sitaramanjaneyulu and P. K. Kanchan, "Effect of Vehicle Axle Loads on Pavement Performance", 4th International Symposium on Heavy Vehicle Weights and Dimensions, Michigan, USA, June 1995.
4. M.N. Nagabhushana, K. Sitaramanjaneyulu, and T.S. Reddy, "Geo-Synthetics in Highway Pavement on Weak Soils", Indo- US Workshop on Ground Improvement Using Geo-Synthetics, New Delhi, 1997.
5. K. Sitaramanjaneyulu, P. K. Kanchan, B. M. Sharma and M. N. Nagabhushana, "Indian Tools for Assessment of Maintenance Needs", Fourth International Conference on Managing Pavements, Durban, South Africa, 1998.
6. K. Sitaramanjaneyulu, B.M. Sharma, Ramesh Raina and Y. V. Rao, "Pavement Evaluation Towards Application of Latest Technologies for Maintenance of Urban Roads", International Conference on Pavement Engineering (ICPE), Bhuvaneshwar, 14-15, Feb, 2009.
7. Pradeep Kumar, K. Sitaramanjaneyulu, and B.M. Sharma. "Current Practices for Pavement Condition Monitoring of Road Infrastructure in India", 24th ARRB Conference, Melbourne, Australia, 2010, 12-15, Oct, 2010.
8. K. Sitaramanjaneyulu, Devesh Tiwari, B.M. Sharma and Pradeep Kumar, "National Efforts Towards Management of High Speed Road Corridors in India", 24th ARRB Conference, Australia, 12-15, Oct, 2010.
9. Errampalli M., Velmurugan S., Nataraju J., and Sitaramanjaneyulu K., "Development of Vehicle Operating Cost Equations for High Speed Corridors of India", International Conference of Eastern Asia Society for Transportation Studies (EASTS), South Korea, 20-24, June, 2011.
10. Padma. S, Velmurugan. S, Madhu. E, Sitaramanjaneyulu. K, and Gangopadhyay. S, "Modelling Road Crash Occurrence and Crash Severity on High Speed Corridors in India", 1st Conference of Transportation Research Group of India (CTRG), Bangalore, 7-11, Dec, 2011.
11. Sanjay Deori, Ranjan Choudhary, Devesh Tiwari, and Sitaramanjaneyulu K., "A Critical Review of Flexible Pavement Performance Prediction Models", International Conference on Advances in Materials and Techniques for Infrastructure Development, NIT-Calicut, 2012.
12. Sanjay Deori, Dr. Rajan Choudhary, Dr. Devesh Tiwari, and Sitaramanjaneyulu K., "Deterioration Modeling of Flexible Pavements with Modified Bitumen", Third International Conference on Construction in Developing Countries (ICCIDC-III), Bangkok, Thailand, 4-6, July, 2012.
13. Errampalli Madhu, S. Velmurugan and K. Sitaramanjaneyulu, "Estimation of Roadway Capacity of Eight-Lane Divided Urban Expressways Under Heterogeneous Traffic through Microscopic Simulation Models", International Conference on Transportation Planning and Implementation on Methodologies for Developing Countries (TPMDC), 12-14, Dec, 2012.
14. Shukla Manoj, Dr. Devesh Tiwari and K. Sitaramanjaneyulu, "Performance Characteristics of Glass Fibre Modified Asphalt", 13th International Conference in Pavement Engineering, At Sao Paulo Brazil, 8-9, Dec, 2013.

15. Ch. Ravi Sekhar, J. Nataraju, S. Velmurugan, Pradeep Kumar and K. Sitaramanjaneyulu, "Free Flow Speed Analysis of Two Lane Inter Urban Highways", International conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC), 10-12, Dec, 2014.
16. Dr. S. Gangopadhyay, K. Sitaramanjaneyulu, "Innovative Technologies for Sustainable Maintenance of Flexible Pavements", International Conference on Sustainable Civil Infrastructure (ICSCI-2014), 17-18, October, 2014.
17. Pradeep Kumar and K. Sitaramanjaneyulu, "Efforts Towards Development of Sustainable Road Asset Management", International Conference on Sustainable Civil Infrastructure (ICSCI-2014), 17-18, October, 2014.
18. Ch. Ravi Sekhar, S. Velmurugan, J. Nataraju and K. Sitaramanjaneyulu, "Examining Variation of Dynamic PCU Values for Inter Urban Highways Under Heterogeneous Traffic Conditions", Conference of Transportation Research Group (CTRG), 2015.
19. Sanjay Deori, Rajan Choudhary, Devesh Tiwari and K. Sitaramanjaneyulu, "Field Performance Study on Modified Bituminous Road Sections of National Highways 5 Corridor", Conference of Transportation Research Group (CTRG), 2015.
20. Ravi Sekhar, J. Nataraju, S. Velmurugan and K. Sitaramanjaneyulu, "Study on Dependency of Pavement Roughness on Free Flow Speed and Capacity of Single Lane and Intermediate Lane Inter Urban Highways", International Symposium on Enhancing Highway Performance (ISEHP), 2016.
21. P. S. Prasad, U. K. Guru Vittal, K. Sitaramanjaneyulu and M. R. Madhav, "Remedial Measures for upheaval of PQC Panels Adjacent to Piers of Monorail in Mumbai", Proceedings of 5th International Conference on Forensic Geotechnical Engineering, Bangalore, 2016
22. Pradeep Kumar and K. Sitaramanjaneyulu, "Use of Modern Technologies for Maintenance of Delhi Roads", Proceedings of International Conference on Pavements and Computational Approaches (ICOPAC), CSIR – Central Road Research Institute, pp – 213-223, New Delhi, 2018

National conferences

1. Y. R. Phull, V. K. Sood B. M. Sharma and K. Sitaramanjaneyulu, "Management of Airfield Pavements – Imperatives and Considerations", National Seminar on Airfield Pavements, New Delhi, 1990.
2. K. Sitaramanjaneyulu, V.K. Sood, B.M. Sharma and Sunil Jain, "Some Recent Developments towards Management of Road Pavements", National Seminar on Recent Trends in Highway Engineering, Bangalore University, March, 1995
3. M. N. Nagabhushana and K. Sitaramanjaneyulu, "Role of Instrumentation in Pavement Construction, Evaluation and Management", Trends and Techniques in Transportation, Warangal, 1997.
4. K. Sitaramanjaneyulu and M. N. Nagabhushana, "Highway Development with Private Participation and Related Issues" Trends and Techniques in Transportation, Warangal, 1997.

5. V. K. Sood and K. Sitaramajaneyulu, "Area Review Paper on Pavement Performance Evaluation", 59th Indian Roads Congress Session, Hyderabad, 1999.
6. K. Sitaramajaneyulu, "Some Latest Technologies and Equipment for Pavement Evaluation", Road Infrastructure Management (RIM) in the New Millennium. Bangalore University, 2000.
7. M. N. Nagabhushana, K. Sitaramajaneyulu and M.R. Arora, "Application of Cold Bituminous Technology in Pavement Maintenance Through Micro Surfacing and Sandwich Surface", National Seminar on Challenges for Road Transportation in 21st Century Leading to Fuel Economy, CIRT 2001, Thapar Institute of Engineering & Technology, Patiala, 2001.
8. K. Sitaramajaneyulu, M. N. Nagabhushana and M.S. Amarnath, "Reclamation of Bituminous Mixes – An Effective and Economical Method of Maintenance", National Seminar on Challenges for Road Transportation in 21st Century Leading to Fuel Economy, CIRT 2001, Thapar Institute of Engineering & Technology, Patiala, 2001.
9. K. Sitaramajaneyulu and M. N. Nagabhushana, "Street Lighting and Illumination- Their Importance Among Highway Facilities", National Seminar on Challenges for Road Transportation in 21st Century Leading to Fuel Economy, CIRT 2001, Thapar Institute of Engineering & Technology, Patiala, 2001.
10. S.S.Naidu, K. Sitaramajaneyulu, Mohan Rao and B.K Durai, "Integration of HDM-4 and GIS for Pavement Management System – A case Study", Advanced Road Transport (ART), National Institute of Technology, Rourkela, 2005
11. Y. V. Rao, K. Sitaramanjaneyulu and M. N. Nagabhushana, "Significance of Road Roughness in Pavement Maintenance Related Decisions", Conference on Advanced Road Transport (ART), National Institute of Technology, Rourkela, 2005.
12. Naidu S. S., Rao A. M., Kanagadurai, B. and Sitaramanjaneyulu, K., "Integration of HDM-4 and GIS for Pavement Management System- A Case Study", Conference on Advanced Road Transport (ART), National Institute of Technology, Rourkela, 2005.
13. Ravi Sekar, CH., Durai B.K., Rao, A. M., and Sitaramanjaneyulu, K., "Toll System Design Based on Travel Time Reliability for High Speed Corridors", Seminar on Public Private Partnership in Highway Sector, New Delhi, 2009.
14. K. Sitaramanjaneyulu, "Network Level Pavement Management System in India: Present Status", Recent Advances in Pavement Engineering (RAPAVE), Hyderabad, 2009.
15. Pradeep Kumar, K. Sitaramanjaneyulu, "Advanced Techniques for Development of Pavement Information and Management System", Published in CSIR-CRRI Diamond Jubilee Celebrations Souvenir, India, 12th July, 2012.
16. Y.V. Rao and K. Sitaramanjaneyulu, "The Use of Weight-In-Motion System to Monitor Axle Weights for Pavement Maintenance", Recent Trends in Highway Development, New Delhi, IRC, 10-11, Oct, 2012.
17. K. Sitaramanjaneyulu, "Innovative Technologies for Construction and Maintenance of Flexible Pavements", Regional Workshop on Promoting Usage of New Material/Technologies/Equipment etc., Bangalore, 23-24, Oct, 2013.

18. Pradeep Kumar and K. Sitaramanjaneyulu, "Modern Data Collection Techniques for Management of Road Assets", New Building Materials & Construction World (NBM & CW), India, Issue No. 9, 2014.
19. K. Sitaramanjaneyulu, "Recycling of Bituminous Pavements", Seminar on Role of Consulting Engineers, Contractors, Developers and Authorities in Infrastructure Development, New Delhi, 28-29, Nov, 2014.
20. Pradeep Kumar, N. C. Pal, K. Sitaramanjaneyulu and B. C. Pradhan, "Assessment of Roads in the State of Odisha Using Automated Data Collection Techniques", Souvenir of 75th Annual Session of Indian Roads Congress, Bhubaneswar, Jan, 2015.
21. K. Sitaramanjaneyulu, "Asphalt Pavement Recycling", Workshop on C&D Waste and its Utilisation, Hyderabad, 28 Feb, 2015.