

## **SAMPATH KUMAR PASUPUNURI**

Scientist, Pavement Evaluation Division  
CSIR-Central Road Research Institute (CRRI),  
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### **EDUCATION**

- Master of Technology, Visvesvaraya National Institute of Technology(VNIT) Nagpur India 2012-14 Graduated in Transportation Engineering with Cumulative Performance Index 9.04 out of 10.
- Bachelor of Technology, Jawaharlal Nehru Technological University, (JNTU) Hyderabad, India 2008-12 Graduated in Civil Engineering with Cumulative Performance Index 7.6 out of 10.

### **WORK EXPERIENCE**

- Working as a scientist in Pavement Evaluation Division at CSIR-Central Road Research Institute, New Delhi since June 2016.
- Regular faculty and trainer in CSIR-CRRI for the dissemination of Highway Development and Management (HDM-4) software tool to economist and engineers of the country, since 2016.
- Worked as a Pavement Design Engineer for K & J Projects Pvt. Ltd, Nagpur from July 2015 to May 2016
- Worked as a Pavement Engineer for Vishvaraj Infrastructure Limited, Nagpur from June 2014 to June 2015

### **AREAS OF INTEREST**

- Pavement Engineering, Rigid and Flexible Pavement Designs, Structural and Functional Pavement Evaluation, Pavement Management System, Self-healing pavements, Innovative pavement materials, Asset management, Pavement Prediction models

### **PROJECTS**

#### **Research Projects**

- Development Self -Healing Bituminous Pavement using Induction Technology  
Project Cost: 2 Million Rupees. Year: 2017-2018 Role: Principal Investigator (PI)  
Sponsoring Agency: Council of Scientific and Industrial Research,
- Water Harvesting Using Porous Flexible Pavements  
Project Cost: 17 Million Rupees. Year: 2017-2019 Role: Principal Investigator (PI)  
Sponsoring Agency: Council of Scientific and Industrial Research

- Study on Decay in Modulus of Stabilized Aggregates in Flexible Pavements  
 Project Cost: 10 Million Rupees. Year: 2019-2022 Role: Team Member  
 Sponsoring Agency: Council of Scientific and Industrial Research

### **Industrial Projects**

<b>Sl. No.</b>	<b>Project Details</b>	<b>Sponsoring Agencies</b>	<b>Role</b>
1	Evaluation of Road Dust Suppressant for Skid Resistance	Nitto Denko India Pvt.Ltd.	Principal Investigator
2	Evaluation of selected NDMC roads for Cold Milling and Recycling	New Delhi Municipal Council	Principal Investigator
3	Evaluation Delhi PWD Roads(Division M-212) for Strengthening	Public Works Department, Delhi	Principal Investigator
4	Evaluation of Delhi PWD Roads (GTB Nagar, Captain Jawed Ali Marg and Seemapuri) for Milling and Strengthening	Public Works Department, Delhi	Principal Investigator
6	Evaluation of Roughness Index using Laser Profilometer on Agra Lucknow Six Lane Access Controlled Expressway Section from km-2.634 to km 53 500 in the state of Uttar Pradesh	PNC Infratech Ltd.	Team Member
7	Geotechnical Investigations and Pavement Design for Baabani-Khamadi Road (Km 0/000 to 52/000) in clayey subsoil under High Rainfall/Snowfall Conditions.	Himachal Pradesh Public Works Department	Team Member
8	Assessment of Odisha Road Network Using Modern Data Collection Techniques Such as Automated Road Survey System and Falling Weight Deflectometer for Asset Management of Odisha PWD Roads	Odisha state Public Works Department	Team Member
9	Geo-Technical Investigations for Construction of 100 m ROW Road (UER-II) Connecting Bakkarwala to Nangloi-Najafgarh Road and Recommendations for Pavement Crust and Ground Improvement	Delhi Development Authority	Team Member
10	Development of Airport Pavement Management System for Ten Airports in India	Airport Authority of India	Team Member

## **ORGANIZATIONAL ACTIVITIES**

- One of the organizers of the international conference on Pavements and Computational Approaches (ICOPAC-2018) at Central Road Research Institute, New Delhi on 13<sup>th</sup> and 14<sup>th</sup> November 2018
- Participated in Annual Meeting of Indian Road Congress IRC 2017, held at Bengaluru, India in November 2017
- Presented a paper on “Self-Healing Pavements; A revolution in Pavement Engineering” in World Road Meeting -2017 organized by International Road Federation at Noida, India in November 2017
- Faculty Member for the regular training program of CSIR-CRRI which includes an International course for Dissemination of HDM 4, Pavement Evaluation Techniques, runway evaluation techniques for Air Field pavements etc.
- Created the facility for Heating of Bituminous Pavements using the Induction heating technology. Designed, Customized, Indented, Procured and Commissioned the facility at CSIR-CRRI
- Supervised M.Tech, Transportation Engineering Students for completion of their Masters Thesis
  - Ms. Rubui Debbarma - “Evaluation of in-service white topping using FWD”
  - Mr. Sumit Barnwal - “Optimization of Conductive Filler in Bituminous Mix for Self-Healing Through Induction Technology”
  - Mr. Sanjeev Kumar – Performance studies for the Porous Asphalt Pavements for Permeability and particle loss resistance
  - Mr. Gowri Shankar –Development of Pavement Performance Index for Rural Roads Carrying Heavy Commercial Vehicles.

## **MEMBERSHIP IN ORGANIZATIONAL/INTERNATIONAL COMMITTEES**

- Life member of Indian Road Congress.
- Life member of Indian Geotechnical Society-Delhi Chapter
- Member in International Road Federation, Young Professionals. (IRF-YP)
- Member of the National Advisory Committee on Development of “Self-Healing Roads”