

# RESUME

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Scientist

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## EDUCATIONAL QUALIFICATIONS

Degree	Institute	CGPA	Year
M.Tech. (Highway Technology)	RASTA-Center for Road Technology, Bengaluru.	9.51/10	2018
B.E. (Civil Engineering)	P.E.S. College of Engineering, Mandya.	9.38/10	2016

## RESEARCH INTERESTS

- Road Asset Management systems
- Highway Design and Maintenance Strategies
- Pavement maintenance management systems
- Pavement condition assessment (structural & functional)
- Geometric Design of Highways
- Pavement Material Characterization
- Pavement Design
- Soft-computing techniques in civil engineering

## SOFTWARE SKILLS

HDM-4, MATLAB, MX Roads, Auto CAD, IIT PAVE, SPSS.

## HONOURS & AWARDS

- Recipient of *Gold Medal* for securing highest CGPA in all the semesters of Post-Graduation at University level.

## RESEARCH AND CONSULTANCY EXPERIENCE

Position	Institute	Nature of Projects	Year
Scientist	Central Road Research Institute (CSIR-CRRI), New Delhi.	Research, Consultancy and Teaching	Dec. 2020 - till date
Assistant Engineer (Highways)	SAI Consulting Engineers Pvt. Limited. (SYSTRA Group)	Geometric Design, Detailed Design, DPR Preparation, Pavement Design.	June 2019 – Nov. 2020
Deputy Engineer (Traffic & Transportation)	LEA Associates South Asia Pvt. Limited (LASA).	Road Asset Management Systems	Aug. 2018 - June 2019
Project Intern	AECOM India Pvt. Limited.	Road Asset Management Systems	Dec. 2017- June 2018

## Research & Consultancy Projects (Completed/Ongoing) at CRRI.

Sl. No.	Project Title	Nature of Project & Role	Project Status
1.	Study on Self-healing Performance of Bituminous Mixes using Microcapsule encapsulated Rejuvenators	In-house Research (Principal Investigator)	Ongoing
2.	Assessing the Suitability of Imperial Smelting Furnace Slag (ISFS) as a Construction Material in Flexible and Rigid Pavements	In-house Research (Co. Principal Investigator)	Ongoing
3.	Delhi Cluster-“Delhi Research Implementation and Innovation” (DRIIV), Theme Solid Waste Management, WP-6 Use of construction & demolition wastes, incinerated residues in road construction	Grant-In-Aid Project (Member)	Ongoing
4.	Recycling of Ghazipur Municipal Solid Wastes for Road Embankment and Subgrade Construction	Sponsored Research (Member)	Ongoing
5.	Development of Airfield Pavement Management System (APMS) for Ten Airports of India	Consultancy Project (Member)	Ongoing
6.	Capsule on Airfield Engineering	Consultancy Project (Member)	Completed
7.	Creation of Research and Development Facilities and a Center of Excellence in Highway Sector for BSRDC, Patna Bihar	Consultancy Project (Member)	Ongoing
8.	Review of DPR's of Karnataka, Maharashtra, Manipur and Sikkim States for NRIDA	Consultancy Project (Member)	Completed
9.	Review of DPR's of Maharashtra, Sikkim, and Uttarakhand States for NRIDA	Consultancy Project (Member)	Ongoing

## Projects involved at Consulting firms

Sl. No.	Project Title	Organization
1.	Consultancy Services for Preparation of Feasibility Study and Detailed Project Report for Selected Corridors of State Highways in Uttarakhand under Uttarakhand State Highway Improvement Project (USHIP) Package No.:1 (Kumaun Zone); Total Length 345.065 Kms.	SYSTRA
2.	Detail Design and Engineering Consultancy services for Widening and Upgradation to 2 Lane with Paved Shoulder configuration and Geometric Improvements from, KM 166+000 TO KM 208+000 (Package-4) on Aizawl – Tuipang section of NH-54 in the state of Mizoram on Engineering, Procurement and Construction (EPC) mode with JICA loan assistance	SYSTRA
3.	Preparation of Detailed Engineering design & Drawing for Railway and Tunnel access roads under ETIHAD Railway PKG-2A & 2D with AREMA code	SYSTRA
4.	Assam Roads Asset Management System (A World Bank Project), ARAMS under PWRD Assam	LASA

5.	Consultancy Services to Develop & Establish Web GIS Based Road Asset Management System for Mizoram PWD, Mizoram.	LASA
6.	Transport Infrastructure Management System (TIAMS), Addis Ababa, Ethiopia.	LASA
7.	Program Coordination and Management Consultancy for Asom Mala (Task 2 - Road Network Data Collection for SH & MDR Network Including Updation of Data in RAMS and Preparation of Multi Year Asset Management Plan), Assam.	LASA
8.	Development of Road Management System (RAMS) and Preparation of Road Maintenance Plan for the Andhra Pradesh Road Network	AECOM

## PUBLICATIONS

### International and National Conferences:

1. **Gowda MK, S., & Vyas, V.,** Road asset management system for low-volume roads: A case study of India, International Airfield & Highway Pavements Conference (ASCE), 8-10 June 2021 (Virtual event).
2. **Gowda MK, S., Kavitha, G., Kumar, V.,** Road Asset Management Systems and Application for Pavement Maintenance for Non-Core Road Networks of Krishna district in Andhra Pradesh State – A case study, CTRG-2019, Bhopal.
3. **Gowda MK, S., Kumar N, A., Kavitha, G.,** Enhancement of Engineering Properties of Black-Cotton Soil using Lime, Cement and Flyash, INFRA ROAD TECH-2019, Bengaluru.
4. Kumar, P., **Gowda MK, S.,** Gupta, A., Implementation of Airfield Pavement Management Systems in India, TIPCE-2022 at IIT Roorkee.
5. Singh Y, S., Gupta, A., Agarwal, Y., Kumar, P., **Gowda MK, S.,** A comparative study on overall priority indices for Flexible Pavement network”, Smart and Sustainable Development of Urban Green Infrastructure in India and Canada-2022, at NIT Trichy.

### M.Tech. Students Guided

Sl. No.	Name of the Student	Academic Institute	Dissertation Title
1.	Prakash R	RASTA-Center for Road Technology, Bangalore.	Comparative study on back-calculated and actual resilient modulus of asphalt pavement layers using soft computing techniques.
2.	Vaishakh K	RASTA-Center for Road Technology, Bangalore.	Performance Evaluation of Bituminous Mixes by Partially replacing fine aggregates with Bottom Ash.

## ACADEMIC PROJECTS

- Road Asset Management Systems for Non-Core Road Networks of Andhra Pradesh State.
- Enhancement of Engineering Properties of Soil using Natural Soil Stabilizer.
- Structural and Functional Evaluation of PMGSY roads in Mandya District, Karnataka.
- Performance Study on White Topping layers over Existing Asphalt Pavement.
- Study on Enhancement of Engineering properties of organic soil using lime, cement and fly ash.
- Permeability study on Granular Sub-base layers.