

## CURRICULAM VITAE

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Designation : Technical Officer  
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Area of Interest : Testing & evaluation, distresses & repair strategies,  
C&D waste and industrial waste utilization, design of  
Concrete mixes and design of concrete pavement

### **Educational Qualification :**

Degree	University	Year	Division	Specialization
M.Tech	Indian Institute of Delhi, New Delhi	2017	First	Transportation Engineering
B.E	Jamia Millia Islamia University, New Delhi	2007	First	Civil Engineering

### **Professional Experience :**

Position held	Employer	Period	Nature of Duties
Technical officer	CSIR-Central Road Research Institute, New Delhi	Sep 2016 to till date	Research & Consultancy and provide technical support
Technical Assistant	CSIR-Central Road Research Institute, New Delhi	Sep 2009 to Sep 2016	To provide assistantship in R&D and Consultancy Work
Executive Trainee Engineer	BHEL, Sec-16 Noida, UP	Jan 2008 to Aug 2009	Quality control for concrete work Structural and Civil Construction
Design Engineer	Pioneer Engineering Consultant, New Delhi	Aug 2007 to Jan 2008	Design of concrete structure (Residential, Hospital and School Buildings)

### **Research Papers –**

1. Evaluation of suitability of oil well drill cuttings for road making” Authored by Dr. A. K. Misra, Dr. Renu Mathur & Manoj Kumar Singh Published in SCI Journal of Scientific and Industrial Research, Vol. 70, April 2011, pp. 305-307.
2. ओपीसी, पीपीसी ओर पीएससी का उपयोग कर त्वरित संसाधन विधि से कंकरीट की सामर्थ्य के पूर्वानुमान हेतु गणितीय मंडल का विकास, जे बी सेनगुप्ता, मनोज कुमार सिंह, सड़क दर्पण, सितम्बर 2014 अंक 11 में प्रकाशित।

3. कंक्रीट सड़क की सरचनात्मक परत की कंक्रीट के गुणों पर रिसाईकिल्ड कंक्रीट रेत का असर, मनोज कुमार सिंह एवं बिनोद कुमार, सड़क दर्पण, दिसम्बर 2017 अंक 15 में प्रकाशित।
4. "Properties of concrete integrated with recycled concrete sand" Authored by Manoj K. Singh, J.B. Sengupta and Binod Kumar, Published in Indian Concrete Journal, Vol. 92, No.9, September 2018, pp. 36-44.

#### **The R&D, Sponsored and Consultancy activities in the Laboratory/Institute:**

Participated in number of R&D, sponsored and consultancy related work for quality control/quality audit, Improvement & Strengthening, Vetting of design, C&D waste and concrete waste utilization and Distresses investigations of cement concrete road related projects as follows -

#### **Research In house Projects –**

Participated in number of R&D projects as a team member -

1. Improvement of engineering properties of C&D waste for road Construction
2. Accelerated Strength Testing and Evaluation of Concrete for Road and Air field Constructions
3. Study of Dry Lean Concrete Mixes with 7 Days Strength of 7 MPa Using OPC, PPC and PSC
4. Estimation of Carbon Foot Prints of Road Construction Process (in 12th five year plan).
5. A comprehensive performance study of hybrid fiber reinforced concrete for the construction of concrete pavement.

#### **Sponsored Contract Research Projects –**

Participated in number of Sponsored Contract Research projects as a team member -

1. Work as a team member in Evaluation of Suitably of Oil Well Drill Cuttings for Road Making
2. Feasibility study on utilization of Aircooled blast furnace slag in road making
3. Evaluation of basalt chopped Fiber and Basalt Fiber Pins in M 30 grade concrete.
4. Evaluation of Geocement/Geopolemer concrete (KIRAN GEO)
5. Evaluation of IMS K100 as a chemically admixture for cement concrete mixes
6. Study on use of slag mixture in granular layers of Flexible pavement (Phase-1)

#### **CONSULTANCY PROJECTS**

Participated in number of consultancy projects as a team member -

1. Investigation of Cracked Pavement Quality Concrete Slabs in Fatehpur to Kokhraj Section of NH-2 (km 100 to km 158).
2. Design of Rigid Pavement on 2nd entry road to Nizamuddin Rly. Station.
3. Design of Rigid Pavement in Sector 36 & Sector 37, Rohini, Delhi.
4. Re-design and up gradation of internal sector roads of sector-1 to sector-11 in Noida Industrial Area, UP" submitted to Noida Authority, NOIDA.
5. Design of Rigid Pavement in Sector 36 & Sector 37, Rohini " submitted to Delhi Development authority, Delhi
6. Third Party quality assurance for the work of Improvement and strengthening of roads of Okhla. Industrial area phase I & II in central zone

7. 3rd party checking for the work of W/I/S of Dera Bhati Road from Dera More at SSN Marg to Haryana Border via Zhir Khurd Mandir in Ward No-176 south zone.
8. Improvement & Strengthening of Bijwasan Road Jathikra more to NH-8 (Old) in N.G.Zone.
9. Improvement & Strengthening of Bijwasan Road for RCC Work and Expansion Joint
10. Improvement of roads of 60 feet ROW and above by providing R.M.C. pavement (Phase-I) in various zone in MCD i.e at Tigri Road from M.B. Road to Durga Vihar, Devli road from M.B. Road to Devli Village, SSN Marg in Village Portion and EPDP road between kalkaji in Central and South Zone.
11. Laboratory Evaluation of Nano Research Product (Enduratopmix, Endurabasemix & Endurafix) for Cement Concrete Road Application
12. Third Party Quality Audit for works of Improvement of services in SRS colonies, Delhi
13. Third party quality control for laying Ready Mix Concrete and interlocking concrete blocks at Rohini, New Delhi. (Two Works)
14. Post construction evaluation of pavement quality concrete (PQC) work at air force station, Hindon, Ghaziabad
15. Quality Audit and performance evaluation of cement concrete pavement (Najafgarh-Nangloi Road in delhi) constructed by using different sealing compound.
16. Surface rectification of abraded pavement quality concrete (PQC) at ICD, Tulakabad, New Delhi.
17. Third party quality audit for the work of improvement of carriageway, footpath and drainage in Pramanand colony, jahagirpuri and mall road, delhi.
18. Strengthening of 45m wide road from Panchsheel Balak Inter college of Irrigation Drain, Noida
19. Evaluation of Construction of Road and Drain in streets of Batla House, Okhla
20. Construction of approaches of Road Over Bridge and RUB/ Underpass at Railway Level Crossing Najafgarh Bijwasan Road at Bijwasan.
21. Cement concrete Pavement to be built at Rewakatni-Jabalpur-Lakhnadon sections of NH-7 using dolomatic Aggregate