

**Ramesh Chandra Majhi**

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DOB: 11<sup>th</sup> July 1990**Education**

- Master of Technology, *Indian Institute of Technology (IIT) Bombay*, India 2012-2014 Graduated in Transportation Systems Engineering with Cumulative Performance Index 8.87 out of 10.
- Bachelor of Technology, *Veer Surendra Sai University of Technology*, India 2008-2012 Graduated in Civil Engineering with Cumulative Performance Index 8.0 out of 10.

**Academic Achievements**

- **All India Rank 846** in GATE-2012 with a percentile score of **97.66**
- Got state rank **2274 out of 80000 students** in Odisha State joint entrance exam.
- Awarded **Indian oil scholarship** which is a merit-cum scholarship in my intermediate for excellence in academic in matriculation as well as in intermediate.
- Secured **highest mark at matriculation level** in our school in H.S.C. Exam.
- Placed in **top 30 list for those scoring highest mark** in Odisha State Board Exam.
- Secured a score of 86 out of 120 in TOEFL (Internet Based Test)

**Research Projects & Seminar**

1. **Saturation flow modelling using Dynamic Passenger Car Unit under mixed traffic condition** [Jun'13-14]  
M.Tech Dissertation Under the supervision of **Prof. Tom V. Mathew**
  - Development of an **optimization based PCU model** which will be used for saturation flow estimation.
  - Modelling of saturation flow based on carriageway width and vehicle **proportion** by considering lane distribution as well as traffic hindrance as influencing parameters.
  - Development of relationship between stopped delay and control delay
  - The M.Tech dissertation was a sponsored project sanctioned by **CRR**I (Central Road Research Institute) approved by **Planning Commission of India in 12th five year plan**. The purpose of the project was to develop Highway Capacity Manual in Indian scenario.
2. **Coordinated Multi-Modal Mass Rapid Transit System for developing country**  
M.Tech Credit Seminar under the supervision of **Prof. Sunder Lal Dhingra**
  - Proposed a methodology to coordinate the existing mass rapid transit system into a single unit for making an efficient and seamless flow of traffic

3. **Ground improvement techniques in relation to soil gradation and establishment of morphological characteristics of granular soil** [2011-12]  
 B.Tech Dissertation under the supervision of **Prof. Anjan Patel**
  - Classification and modern trends in ground modification technique was studied on cohesion less Soil.
  - Samples were collected from the college campus at different locations, soil gradation was done initially and the various soil properties were tested.
  - Effect of soil gradation and soil characteristics in the context of ground improvement was established from experimental results.
4. Research paper selected for the presentation in **“World Conference on Transport Research Studies (WCTRS-2016)”** to be held at Shanghai, China
5. Research paper selected for the presentation in the conference on **“Centre for Transportation Systems Engineering and Management (CTSEM)”** held at NIT Calicut. [May’14]
6. **Presented my research methodology on capacity estimation at signalized intersection at “RIHCAM-2014 (Review Workshop on Indian Highway Capacity Manual)”**, held at Chennai, India
7. Ramesh Ch Majhi, (2017). “Field Saturation Flow Measurement Using Dynamic Passenger Car Unit Under Mixed Traffic Condition”. International Journal for Traffic and Transport Engineering, Vol.7 (4), pp. 475-486.

### Organizational Activities

- **Participated in the “Review workshop for the development of Indian Highway Capacity Manual” held at Chennai. [Mar’14]**
- Presented the methodology to measure saturation flow at signalized intersection under mixed traffic condition before the participants, of more than 100 delegates, specialized in the field of Transportation engineering, organized by Central Road Research Institute, CSIR.
- **Organizing Committee member for the International Workshop “Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC-2012)” held on 15th to 17th December at IIT Bombay**
- **Member in the organizing committee of the training course on “Pradhan Mantri Gram Sadak Yojna (PMGSY)” held during 24<sup>th</sup>-26<sup>th</sup> august 2012.**
- Awarded 2nd prize in Hastarang-2k10 which was an Annual Art Exhibition by Art and Photography Club at graduation level.
- Worked as Assistant Professor at MPSTME, NMIMS, Mumbai from Aug’2014 to Jun’2016.
- Currently working as Scientist at CSIR-CRRI IN Traffic Engineering and Safety Division. [July’ 2016-till Date]

### Software Skills

Related to Transportation:

**ALOGIT & NLOGIT** – Statistical Tool.

**AutoCAD & Stadd-Pro** – Design Tool.

**VISSIM** – For Traffic Simulation and Analysis.

**KENPAVE** – A Pavement Analysis and Design Tool.

Computer efficiency: Windows OS, MS Office, C++, Matlab

