



Preeti

153040011

Civil Engineering

M. Tech.

Indian Institute of Technology Bombay

Contact No.- +91 9416801681

Specialization: Transportation Systems Engineering

DOB : 1<sup>st</sup> August, 1992

Examination	University/ Board	Institute	Year	CPI / %
Post-Graduation	IIT Bombay	IIT Bombay	2017	6.70
<b>Undergraduate Specialization: Civil Engineering</b>				
Graduation	Deenbandhu Chhotu Ram University of Science and Technology Murthal	DCRUST Murthal	2013	6.69
Intermediate/+2	Haryana Board of School Education	G.G Senior Secondary School, Jind	2008	63.55
Matriculation	Haryana Board of School Education	New Adarsh Vidya Mandir School, Jind	2006	82.60

### **ACADEMIC PROJECTS, INTERNSHIPS AND SEMINARS**

#### **M.TECH PROJECT: Risk Analysis of Public Private Partnership in Metro Rail Projects.**

[June 2016- Present]

- **Guide:** Prof. Nagendra R Velaga
- **Objective:** To study and rank of risks occurring during pre-construction, construction as well as operational phases of Metro Rail Project.
- **Approach:** Probability Level and Impact Level of all risks are collected from the domain experts by Delphi Survey. Then the risk levels of all risks are evaluated by Fuzzy Logic Method using MATLAB software as a tool.

#### **M.TECH SEMINAR: Geometric Design Consistency – Evaluation by Driving Simulator.**

[July 2015-Nov 2015]

- **Guide:** Prof. Avijit Maji
- **Objective:** To study and identify the effects of inconsistency in geometrical elements on the safety of road users.
- **Approach:** There are 3 main factors which effect geometric design consistency, viz. design consistency, operating speed consistency, and consistency in driving dynamics., Three levels of consistency are considered: - *good, acceptable and poor*. A 21km road section, divided into 38 parts with 22 curves and 16 tangents is used in driving simulator. Simulator data for speed, vehicle position and age of driver & experience were recorded for 42 drivers. Accident rate was recorded according to the inconsistency.

#### **M.TECH MINOR PROJECT: Design of Bus stand in front of SOM in IITB Campus using VISSIM**

[Jan 2013 –April 2013]

- **Guide :** Prof. P. V. Vedagiri
- **Objective:** To give the full way to the crossing vehicles.
- **Approach:** Number of buses, trips and students were counted. Considering these the bus stand is designed using VISSIM software.

## **B.TECH PROJECT: Redesign of Sewage Treatment Plant of DCRUST Murthal**

[June 2012-May 2013]

- **Guide:** Prof. Sunita Devi
- **Objective:** To study the existing design of the sewage treatment plant and redesign for present and future capacity and requirement.
- **Approach:** Existing Sewage plant site survey was done. Screening, oil and grease trap, oxidation ditch, settling tank and sludge drying beds are included and Plant was designed for 20 years duly considering the increase in population.

## **INTERNSHIP PROJECT AT Northern Railway, Delhi:** Study of World Class Stations in Delhi.

[June 2012 – July 2012]

- **Guide:** Mrs Mona Srivastava, Chief Engineer
- **Objective:** To study the world class station and compare with other Indian stations.
- **Approach:** Internet study is done for some other country's railway stations. Anand Vihar railway station, Bijwasan railway station, New Delhi railway station, Ghaziabad railway station are the four-world class railway stations considered.

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### **POSITION OF RESPONSIBILITIES**

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- **Teaching Assistantships at IIT Bombay**
- **CE 412: Transportation Engineering Lab:** Helped instructor by preparing PPT of experiment and presenting to the students. Conduct experiment in the field and maintaining all the records of experiment work
- **CE 729: Quality and safety in construction:** Helped instructor by preparing PPT for teaching purpose.
- Member of Registration committee of **12<sup>th</sup> Transportation Planning and Implementation Methodologies for Developing Countries [TPMDC] International Conference, 2016.**
- **Mess Secretary** for Hostel 11, IIT Bombay [April 2016-Dec 2016].
- **Organizer** of theatre workshop, 2010.
- **Organizer of Inauguration and Prize distribution committee** at RHYTHM (Annual function of university), 2012

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### **TECHNICAL SKILLS**

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- **Softwares:** MATLAB, VISSIM, STAAD Pro, MS Office

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### **SCHOLASTIC ACHIEVEMENTS**

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- **98.36 percentile** (among 101429 aspirants) in Graduate Aptitude Test in Engineering (GATE) Examination, Civil Engineering in the year 2015.

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### **EXTRACURRICULAR ACTIVITIES**

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- Gold Medal in Throw ball in Annual Sports Meet 2011.
- Gold Medal in Volleyball in Annual Sports Meet 2011 and 2012.
- Silver Medal in Volleyball in Inter Hostel Tournament 2016.
- Silver Medal in Tug of war in Inter Department Tournament 2017

**HOBBIES:** Watching news on TV, Swimming

### **References:**

1. Dr. S. L. Dhingra  
Institute Chair Professor Transportation Systems Engineering,  
Civil Engineering Department,  
Indian Institute of Technology Bombay.  
Powai, Mumbai - 400 076.
2. Prof Cyrus M Dordi  
Construction Technology & Mgmt Civil Engineering Department  
Indian Institute of Technology Bombay.  
Powai, Mumbai - 400076  
Ph : +91-22-2576 7301, +91 9820605305

Ph : +91-22-2576 7329, +91 9820345493  
[sl.dhingra@gmail.com](mailto:sl.dhingra@gmail.com)

[cmdordi1505@gmail.com](mailto:cmdordi1505@gmail.com)