

# SAURABH MAURYA

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## EDUCATION

### I) Master of Technology in Water Resources and Environmental Engineering (2020 - 2022)

Indian Institute of Technology Ropar, Punjab, India.

(Admission Master of Technology to program in this Institute is done through a **Graduate Aptitude Test in Engineering**).

**Dissertation Title:** “Comparative Analysis of Water Flow Equation in Unsaturated Soil Zone and Developed Analytical Model.”

**Under the guidance of:** Dr. Ratan Sharmah & Dr. Ickkshaanshu Sonkar.

1. Richards' equation has been solved analytically using variable separation technique, sink term has been considered in one-dimensional homogeneous soil zone.
2. After getting the analytical solution, solution has been validated with a Numerical solution.
3. Using the Water content which is function of space and time, dispersion and velocity has been determined of Advection Dispersion Equation, these parameters solved by the Generalized Integral Transform Technique, and solution has been verified with numerical solution.
4. A numerical solution has been developed with the Finite Difference Method.

### II) Bachelor of Engineering in Civil Engineering (2015 – 2019)

Rewa Engineering College Rewa, Madhya Pradesh, India

(Admission Bachelor of Engineering to program in this college is done through a **Joint Entrance Exam**).

**Dissertation Title:** “Suitability and Stability Analysis of the Earthen Charkha Dam using Graphical Method and Numerical Method.”

**Under the guidance of:** Dr. R.P Tiwari & Mr. Anoop Kumar Tiwari

1. Suitability and Stability Analysis Performed for the proposed earthen dam project in Shadol district Madhya Pradesh India.
2. Soil suitability has been examined by performing lab experiments.

## National Level exam

Qualified the GATE 2021

## TECHNICAL SKILLS

**Programming Languages:** MATLAB, Python

**Software:** Hydrus 2D, Lingo, PLAXIS 2D, MS Excel, MS Word, Auto CAD, Revit Architecture

## INTERNSHIP EXPERIENCE

I) Construction of Flyover in Satna, Madhya Pradesh, India.

II) Construction of Residential Building in Rewa, Madhya Pradesh, India.

III) Site visit Under-ground Canal Construction through Tunnel Boring Machine Sleemnabad, Katni, and

Madhya Pradesh.

### **AWARDS/SCHOLARSHIPS/DISTINCTIONS**

- I) MP Council of Science & Technology, Bhopal Madhya Pradesh Selected for the scholarship 1000 per month up to 5 years in 2014.
- II) I have gotten the offer letter from the ARCTECH incubator center Bhopal, Madhya Pradesh for Startup in 2018.

### **CONFERENCE/ SYMPOSIUM**

- I) I have attended and presented the Paper in “Indian Geotechnical Society at Indian Institute of Technology Kanpur India in 2019” on “**Stability Analysis of Charkha Dam**” it was based on Bachelor’s thesis.
- II) I have also experience to pitch ideas and present a presentation in front of large and every kind of audience, in SPCE Mumbai, Maharashtra, India presented startup idea and got positive appreciation from the audience.

### **EXTRACURRICULAR ACTIVITY**

Writing stories, Novels.

### **PERSONAL DETAILS**

Date of Birth: August 25, 1997.

Languages Known: English (RWS), Hindi (RWS).

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