**Diwakar Kumar Singh**

**183180010**

**M.Tech.**

**Environmental Science & Engineering**

**Indian Institute of Technology Bombay**

**Specialization: Environmental Science & Engineering**

**Male**

**DOB: 06-12-1993**

**Examination**

**University**

IIT Bombay

**Institute**

**Year**

**CPI / %**

Post Graduation

IIT Bombay

2020

8.90

Undergraduate Specialization : CIVIL ENGINEERING

Graduation VTU Belgaum

PESIT

2016

8.86

**Professional Experience**

***Billing Engineer* | Shiv Engineering Pvt. Ltd.**

*[Oct’16-Nov’17]*

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Prepared balance sheet and bills for structures like tanks, pipe lines etc. for two distillation units in Bihar

Carried out onsite management of Labors and material

***Intern* | GIST Advisory**

*[May’19-June’19]*

• Reviewed academic literature on waste generated from different industries and their disposal methods

• Extracted and compiled **LCA** databases using ecoinvent and GaBi softwares

**Academic Projects**

**Appraisal of Treatment Technology for Sewage Sludge *|*** *M.Tech. Thesis*

*[Jan’19-Present]*

Guide: Prof. Anurag Garg

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Determination of Biochemical Methane Potential of sewage sludge and optimization by thermal pre-treatment

Further work involves design and fabrication of sludge treatment unit based on optimized condition

**Resource Recovery Options from Sugar Mill Residues *|*** *M. Tech. Seminar*

*[July'18-Nov’18]*

Guide: Prof. Anurag Garg

• Different processes involved in sugar making were studied and waste generated at each stage was identified

• Methods of various waste utilization options for sugar mill residues were studied and evaluated

**Key Course Projects**

**Outdoor Air Quality Monitoring**

*[2018]*

Monitored concentration of PM2.5, PM10 on roof top of CESE building and at Y-point gate of IIT Bombay

Operated HVS, OPC, DustTrak and MiniVol sampler continuously for 24 hours

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**Estimation of Emissions from Coal Fired Thermal Power Plant in India**

*[2018]*

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Mass emission factors for CO , SO , and nitric oxide (NO) were computed based on coal used and excess air

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**Potential of Renewable Energy Sources in India**

*[2018]*

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Potential of renewable energy was estimated and its contribution towards total energy need was calculated

**Technical Skills**

• **Software:** Qual2k | IMSDesign | AutoCAD | STAAD Pro. | Scilab | MS Office | AERMOD

• Analysis of water and waste water quality parameters | Monitoring ambient air quality parameters

**Position of Responsibilities**

• **Treasurer** | Environmental Science & Engineering Association

*[May’19-Present]*

o Responsible for promoting the lifetime membership and handling every aspect of financial management

o Assisting co-members of the Association in departmental seminars, workshops and other activities

• **Teaching Assistant** (Environmental Studies: Science and Engineering) **|** IIT Bombay *[July’19-Present]*

o Assisting professors during class lectures and in evaluation of exam papers of **200+ students**

**Achievements and Extra-Curricular Activities**

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Secured **98.89 percentile** in GATE - Civil Engineering

Awarded with **Bronze** medal in Chess Team Tournament conducted by PG Sports, IIT Bombay. *[Mar’19]*

Received first class with **distinction** awards for all the eight semesters of B.E.

Assisted in organizing a three-day **National Environment Conference** at IIT Bombay

Participated in Junkyard Wars and Math Treasure hunt competitions in Science Fest at PES University*[2014]*

Received certificate of accomplishment upon successful completion of introduction of Staad Pro *[March’15]*

*[Feb’18]*

*[Aug’12- Jun’16]*

*[Feb’19]*

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