SPANDAN S B

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Education

National Institute of Engineering (NIE) — Mysore, India
M.Tech. in Hydraulics, Civil Engineering Department. — 2019
Thesis: Study on soil moisture flux in different locations of Western Ghats.

Government Engineering College Ramanagara (GECR) — Ramanagara, India
Bachelor of Engineer, Civil Engineering Department. — 2016
Thesis: Effective use of agro-waste as fossil fuels for manufacturing Briquettes

National Level Exam

Qualified in **GATE 2021**. — 2021

Research Experience

NIE, Water Resource Centre — Mysore, India
Advisor: Prof. **Dr. R Yadupathi Putty**.
Experimental studies done on soil moisture flux in the region of Western Ghats, which was preliminary work, done in dry season by providing artificial recharge and measuring spatiotemporal soil moisture variation nearby recharging trench using a TDR meter, with a goal to furnish a method that would help much extensive studies on soil moisture in the monsoon season.

GECR, Civil Engineering Department — Ramanagara, India
Advisor: Prof. Dr. Arun Kumar
Agricultural waste such as tamarind shells, coconut shells, coffee husk, and groundnut husk and saw dust of different proportion used to prepare briquettes of high calorific value. Briquettes is a substitute to firewood used in industry boilers as fuel.

Project Experience

NIE, Department of Civil Engineering — Mysore, India
Advisor: Prof. **Dr. R Yadupathi Putty**.

1. Developing the innovative mini-gypsum blocks to be capable of measuring soil moisture for reasonable cost.
2. Furnishing guidelines for handling TDR meter in Western Ghats soils.
3. Constructed Soil Column in laboratory for monitoring soil moisture rates in lateral and vertical direction.
4. Conducting experiment on large scale in field using a setup, which included trenches, access tube installations etc. for soil moisture studies using TDR meter.
5. Determining soil texture at different locations within the study area using hydrometer analysis.
6. Conducted infiltration test in field and permeability test in laboratory to measure values of hydraulic conductivity.
7. Studying the soil moisture flux theoretically and compare with observed values

Field Experience

Kumaradhara Field Hydrological Laboratory NIE-WRC — Kodagu, India
Advisor: Prof. **Dr. R Yadupathi Putty.**

1. Handling meteorological instruments such as rain gauges, weather station, water level recorders such as thalimedes, DWLR, float gauge for discharge measurement which was installed across calibrated trapezoidal, rectangular and V-notches

2. Discharge measurements by measuring water head at Beedalli mini hydel project, were water overflowing through gates and orifice.
3. Infiltration tests using double ring infiltrometer.
4. Hands on experience at river gauging station on upstream of Mallahalli falls established by KPCL for discharge measurement using a cup type current meter.
5. Proposal of 1.6 MW Hydro Power Plant in Kudigana Village.
6. Experience with handling soil moisture meter such as TDR meter, Digital Soil Moisture & Temperature Recorder.

Teaching Experience: Assistant Professor at Dayananda Sagar College of Engineering, Bangalore for academic year 2019-20

Internship: Carried out in hydropower plant at Kodagu Hydel Projects Pvt. Ltd., at Beedalli, Kodagu, Karnataka during M.Tech.

Activities

1. Participated in 4 days workshop on "The Joy, Opportunities and Challenges in Field Hydrological Research" at The National Institute of Engineering, Mysuru.
2. Participated in "National Seminar for Research Scholars (NSRS) – 2019" at AMC Engineering College, Bengaluru.
3. Participated in two-day workshop on "Challenges in Measurement of Flow in Streams and Other Open Channels -2018" at The National Institute of Engineering, Mysuru.
4. Participated in one-day training on "TerrSet – Geospatial Monitoring & Modeling System- 2018" at The National Institute of Engineering, Mysuru.
5. Participated in two-day workshop on "Groundwater Modelling System (GMS) Software Training at The National Institute of Engineering, Mysuru.
6. Industrial Visit to Krishna Raja Sagara (KRS) Dam Mandya, Karnataka during M.Tech.
7. Industrial Visit to Kanva dam, Igloor dam and Manchanabele Dam near Ramanagara, Karnataka during B.E

Skills/Interests

- **Planning and Layout:** AutoCAD
- **Software's:** ArcGIS, QGIS, ETABS, SAFE.
- **Others:** MS-Office (Word, Excel, Power Point, Outlook)
- **Language:** English (RWS), Hindi (S), and Kannada (RWS)

References

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