

VENKATA KOULINI G.

5/63, Tharuna's infinity,
Natesan main road,
Ramapuram, Chennai - 600089.

gykoulini@gmail.com

+91-9789713243

+91-9951641849

CAREER OBJECTIVE:

To work in a challenging role which provides scope for self-improvement and also, to play a leading part in contributing to the company's growth.

WORK EXPERIENCE (4 years)

Worked as **Executive – Projects** (Environment & Sustainability), Centre for Urbanization, Building and Environment (CUBE), IIT Madras from 16-Sep-2020 to 15 Aug 2021.

Worked as **Senior Design Engineer** (Process-Wastewater), Water & Effluent Treatment IC, Larsen & Toubro Construction, from 25-Jul-2018 to 15-Sep-2020

Worked as Post Graduate Engineer Trainee (Process-Wastewater), Water & Effluent Treatment IC, Larsen & Toubro Construction, from 25-Jul-2017 to 25-June-2018.

PROJECTS

CUBE

1. **Client:** The State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)

Responsibilities:

- a. Preparation of reports for surface water management and wastewater management plan for SIPCOT Industrial Parks across Tamil Nadu.
- b. Project Management works.

2. **Client: Small Industries Development Corporation (SIDCO)**

Responsibilities:

- a. Preparation of DPR for construction of Sewage Treatment plant in SIDCO Industrial Estates across Tamil Nadu.
- b. Project Management works.

3. **Client:** Military Engineering Services – Tambaram Air Force Station

Responsibilities:

- a. Adequacy check of existing storm water drains along the Runway.
- b. Design of new storm water drains along the Runway.

L&T Construction

Operating Jobs

4. **Client:** Greater Colombo Wastewater Management Project

Responsibilities:

- a. Involved in the design of odour control unit (OCU) and vortex grit removal system.
- b. Preparation of checklists and comparison datasheets for both OCU and vortex grit removal system for easy vendor evaluation.

5. **Client:** Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Limited (5 MLD STP at Bharatpur; 1.5 MLD, 2.5 MLD & 5.5 MLD STPs at Gangapur and 0.75 MLD, 3 MLD & 5 MLD STPs at Hindaun)

Consultant: Shah Technical Consultants Private Limited

Technology: Sequential Batch Reactor

Responsibilities:

- a. Involved in process design and hydraulic calculations, gate & pipe sizing calculations, preparation/ review of list of civil & mechanical units (LCU & LMU), electrical load list (ELL) and drawings (layout, hydraulic flow diagram (HFD), process flow diagram (PFD), piping and instrumentation diagram (PID) and general arrangement drawings).
 - b. Revising the design/ drawings according to comments from client.
 - c. Involved in getting approvals of design/ drawings from client/ IIT.
 - d. Preparation and release of purchase requisitions for process STP technology systems and electro-mechanical equipments and evaluation of corresponding vendor offers and review of post order documents. Preparation of equipment datasheets for client submission/ approval.
 - e. Maintenance of monthly status reports and document control index.
 - f. Preparation and filing of ISO documents for audits.
6. **Client:** Aurangabad Industrial Township Limited (11 MLD STP & 13 MLD CETP at Bidkin)

Consultant: AECOM Asia Company Limited/ CH2M Hill International Limited

Technology: Membrane Bioreactor

Responsibilities:

- a. Pump head/ pipe sizing calculations and preparation of PID.
- b. Preparation and release of purchase requisitions for process STP technology systems and electro-mechanical equipments.
- c. Review and evaluation of vendor offers.
- d. Submission of equipment datasheets for client approval.
- e. Preparation/ review of general arrangement drawings.

Tender Jobs

1. Responsible for preparation of pre-bid queries for the following tenders:
 - a. Vellore city municipal corporation limited – 50 MLD STP
 - b. Greater Visakhapatnam smart city corporation limited – 46 MLD STP
 - c. Rajasthan Urban Infrastructure Development Programme – 9.25 MLD WTP & 9.5 MLD STP along with faecal sludge management and rehabilitation of existing 10.4 MLD WTP and 4.5 MLD WTP.

2. **Client:** Delhi Jal Board – 564 MLD WWTP at Okhla

Consultant: NJS consultants Co. Ltd.

Technology: MLE/ A2O process

Responsibilities:

- a. Preparation of process design and hydraulic calculations, LCU, LMU and drawings (layout & HFD).
- b. Provision of preliminary input to other disciplines required for their working.

3. **Client:** Greater Visakhapatnam Smart City Corporation Limited – Tertiary treatment with 33 MLD output capacity at Gajuwaka nad Malkapuram area, Visakhapatnam.

Technology: Tertiary treatment with UF/ RO system

Responsibilities:

- a. Preparation of process design, LCU and drawings (layout, PFD & PID).
- b. Running RO projection for analysis.
- c. Preparation of electrical load list and power guarantee.

4. **Client:** Rajasthan Urban Infrastructure Development Project (RUIDP)

9.25 MLD WTP and 9.5 MLD STP along with faecal sludge management and rehabilitation of existing 6.34 MLD STP and 10.4 MLD WTP & 4.5 MLD WTP.

Technology: STP: Sequential Batch Reactor

WTP: Rapid gravity filter

Responsibilities:

- a. Preparation of process design, hydraulic calculations, LCU, LMU and drawings (Layout, HFD, PFD and PID)
- b. Provision of preliminary input to other disciplines required for their working.
- c. Preparation of technical submittals.
- d. Preparation of electrical load list and power guarantee.
- e. Sending enquiries to vendors.

EDUCATIONAL BACKGROUND

M. Tech
(Environmental Engineering) : National Institute of Technology, Tiruchirappalli.
9.12 CGPA

B.E
(Civil Engineering) : MVSR Engineering College, Hyderabad.
89.83 %

11th/ 12th standard : Sri Chaitanya Jr. Kalasala, Hyderabad.
97.3 %

10th standard : Bhavan's Sri Rama Krishna Vidyalaya, Hyderabad.
88.2 %

ACADEMIC PROJECTS

M. Tech.

Effective Degradation of Azo-Dyes from Textile Wastewater by Electro-peroxone process:

Evaluation of the color removal efficiency of azo dyes using integrated process of ozonation and electrolysis and application of the technology to the real field textile dye wastewater.

B.E.

Analysis and design of Box Culvert:

Analysis of various loads and design of box culvert using relevant IS codes.

INTERNSHIPS

1. CII Sohrabji Godrej Green Business Centre (IGBC), Hyderabad (2016).
2. Andhra Pradesh Housing Board, Hyderabad (2014).
3. Saket Engineer's Pvt. Ltd., Hyderabad (2013).

AREAS OF INTEREST

- Physico-chemical processes for water and wastewater treatment
- Biological process design for wastewater treatment
- Sludge treatment processes
- Green Buildings and sustainability

TECHNICAL SKILLS

MS office, Auto CAD, NAVIS works and RO projections

ACADEMIC ACHIEVEMENTS

- ❖ Secured **3rd** rank in M. Tech (Env. Engg.), NIT Tiruchirappalli, 2016-2017.
- ❖ Osmania University **Gold Medalist** in B.E (Civil), 2014-2015.
- ❖ Consistent topper and achieved **Gold Medal** during all 4 years of Engineering.
- ❖ One of the state top 10 rankers in 12th Board Exams, 2011.
- ❖ Consistent topper during schooling and was awarded several prizes.

ACTIVITIES

- ✚ Presented a technical paper on **Efficient Grit Removal System – A Case Study** in Technology Conclave-VII, Larsen & Toubro, HQ - Chennai.
- ✚ Delivered an expert talk in the research colloquium on Environmental and Water Resources Engineering at Rajiv Gandhi Institute of Technology, Kottayam, 2016.
- ✚ Attended Short Term Course on **Challenges, Emerging Trends and Recent Initiatives** in Environmental Engineering at NIT, Tiruchirappalli, 2016.
- ✚ Attended an all India Seminar on **Cost Effective Effluent Treatment Systems** organized by Institution of Engineers at NIT, Tiruchirappalli, 2015.
- ✚ Attended Civil Simplified National Level **Bridge Design Challenge** in Technozion at NIT, Warangal, 2013.
- ✚ Attended National Level Workshop on **Structural Steel Designing** in Technozion at NIT, Warangal, 2013.

INTER PERSONAL SKILLS

Good team player, ability to work independently (if required), planning and management, fast learner, hardworking, dedication and adaptability.

PERSONAL DETAILS

Father's Name : G. Subramanya Sarma
Mother's Name : Late G. V. Rohini
Gender : Female
Date of Birth : 26th August, 1993.
Marital status : Married
Nationality : Indian
Hobbies : Listening to music and cooking.
Languages Known : English, Telugu and Hindi.
Permanent Address : House number 1-148, Kajuluru Mandal, Andrangi,
East Godavai, Andhra Pradesh – 533262.

Declaration :

I hereby declare that the information given above is true to the best of my knowledge.

VENKATA KOULINI G.