

JAMAL DIN

Civil/Hydraulic Design Engineer - Water & Wastewater

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Professional Summary

Civil engineer with five years specializing in Civil/hydraulic network modelling water and wastewater engineering. Designs distribution lines, rising main, gravity mains and pump calculation with expertise in balancing pond topographical survey specifications, Construction design management (CDM) 2015 compliance risk registers, and technical report preparation. I am proficient in Bentley WaterGEMS, AutoCAD, Revu Bluebeam, ProjectWise, Google Earth, Global Mapper, MS Excel, MS Word and MS PowerPoint delivering cost-efficient, sustainable water and wastewater solutions.

Work Experience

Role - Civil Engineer; RSK IEC Pvt Ltd; (Binnies) - (Thames Water Services; Balancing Ponds, England, UK) Mar 2025 - Present

- Prepared topographical survey specifications for balancing pond projects and designed sedimentation tanks.
- Developed CDM 2015 Design Stage Risk Registers (HSI-12) ensuring safe/compliant design.
- Conducted multidisciplinary drawing reviews, activated sludge reporting, and cross-team coordination, meeting UK standards.

Role – Assistant Engineer; Shah Technical Consultant Pvt Ltd – (Punjab Municipal Infrastructure Development Company; Atal Mission for Rejuvenation and Urban Transformation-AMRUT 2.0, Chandigarh) From 2024 to 2025

- Worked on the preparation of Technical Project Reports of WWTP & STP and Detail notice inviting tender (DNITs) (Volume-2) documents for Water Treatment Plants under the AMRUT 2.0 programme across multiple towns.
- Assisted in planning the layout of key WWTP components, including raw water storage and sedimentation tanks, cascade aerators, Clari-flocculators, filters media, chlorination units, contamination control tanks, clear water reservoirs (CWRs), and pumping systems.
- Contributed to the development of hydraulic flow diagrams, flow measurement arrangements (Parshall flumes), inlet and outlet channels, and control gates and valves in line with approved designs.
- Supported technical tendering and evaluation activities, using tools such as MS Excel, MS Word, AutoCAD, and Google Earth.

Role – Hydraulic Design Engineer (Network Modelling); Choice Consultancy Service Pvt Ltd – (NABARD Consultancy Services Pvt Ltd; Jal Jeevan Mission, Maharashtra) From July 2023 to Dec 2024

- Carried out clean network hydraulic modelling using **Bentley WaterGEMS**, including pipe sizing, velocity checks, and surge analysis.
- Designed capacities for intake wells, Water Treatment Plants (WTPs), and ESRs/OHSRs in line with NRDWS standards, and contributed to the preparation of technical project reports.
- Involved in the design of raw water and clear water rising mains, ensuring hydraulic efficiency and constructability.
- Reviewed and validated KML alignments and coordinated with ZP and MJP stakeholders to support smooth project integration.

Role – Estimation Cum Hydraulic Design Engineer (Network Modelling); Ecometrix Consultancy Service Pvt Ltd – (Public Health Engineering Department; Jal Jeevan Mission, Assam) from Aug 2022 to July 2023

- Developed clean hydraulic network models in **Bentley WaterGEMS** to optimise distribution networks & pressures manage system.
- Carried out source assessments (yield & water quality), KML alignment checks, cost estimation & contributed to the preparation of technical project reports.
- Supported the PHED approval process by coordinating with stakeholders and preparing the required technical documentation.

Role – Design & Draughtsman Engineer; Choice Consultancy Service Pvt Ltd I & R Joint Venture – (NABARD Consultancy Services Pvt Ltd; Jal Jeevan Mission, Rajasthan) From Dec 2021 to Aug 2022

- Designed pipelines, rising mains, pumping systems for Single village schemes and Multi village scheme in **Bentley WaterGEMS & Autodesk AutoCAD**.
- Engineered reservoirs/tanks, velocity and friction analysis, and geospatial validations.
- Prepared detailed technical project reports and Google Earth KML field survey integration.

Role - Planning & Design Engineer; Krystal Architech Design Services (Self-Employed) – (Govt of Jammu and Kashmir; Pradhan Mantri Awas Yojana, Jammu and Kashmir) from 2019 to 2021

- Created 2D layouts, 3D elevations, sections in **Autodesk AutoCAD** for residential projects.
- Managed design documentation ensuring architectural compliance.

Education

Bachelor of Technology (Civil Engineering) | Pacific University of Udaipur, 2015-2019 | 77.23%

Key Skills

- Hydraulic network modelling (**Bentley WaterGEMS**), surge analysis, pipe sizing & pressure optimization.
- Raw water engineering & wastewater treatment.
- Clean water and wastewater network modelling (pipelines, rising mains, gravity mains).
- Balancing pond topographical survey specifications & Construction design management (CDM) 2015 compliance risk registers.
- Technical documentation, Preparation of technical project reports & feasibility studies.
- Residential planning (2D layouts, sections & 3D elevations).
- Engineering standards compliance (UK/International/NRDWS/CPHEEO).

Software Tools

Bentley WaterGEMS | AutoCAD | Revu Bluebeam | Global Mapper | Google Earth | MS Words | MS Excel | MS PowerPoint | ProjectWise | Typing Master Pro | Bentley SewerGEMS Interface | 3DS Max

Certificates & Achievements

- **AutoCAD & 3DS Max** - Advanced design training
- **Design of Sewage Treatment Plants (STP)** - Specialized certification
- **Quantity Surveying Training** - Reinforced construction cost management
- **Microsoft Excel** - Beginner, Intermediate, and VLOOKUP Functions

Languages

English (Professional), **Hindi** (Conversational), **Urdu** (Conversational-), **Arabic** (Basic), **Kashmiri** (native)

Contact Information

Address: Mulass, J&K India, **Marital Status:** Married, **DOB:** 05-02-1997, **Passport:** U 1422601

Declaration

All information is true and accurate. Committed to professional ethics and compliance.

Place: India

Signature: Jamal