



MOHAMMAD RASHID HASAN

Extensive experience in Mechanical Design Engineering of Water, waste water & Industrial Water Projects. Overall detail Design & Drawing work of Mechanical & Piping for Various Structures of Water treatment plant (WTP), Effluent treatment plant (ETP) & Sewage treatment plants (STP), Network Design & drawing work for water Distribution & Sewage collection system.

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Key Skills

Profile Summary

Mechanical Design Drawing

WTP, ETP & STP Engineering

Piping Engineering

Pump House Engineering

Network Engineering

Execution & O&M Support

Client & Consultant Servicing

Erection & Commissioning Support

Team Building & Leadership

- Dynamic career of **13 years** that reflects multi-national experience in Water, Waste water & Industrial Water Projects.
- Detail Mechanical & Piping Design, Drawing of Pumping stations & Lifting stations for Water supply and Waste water projects in 2D as well as in 3D CAD (Plant 3D) Modeling.
- Worked in site Execution for Water & waste water Projects of Mechanical (Pumps, valves) & Piping Equipment.
- Detail Drawing of Distribution Network & Sewage Collection Network System.
- BIM (Revit) Modeling drawing of pumping stations.
- Mechanical and Piping drawing of Water treatment plant/Sewage Treatment plant.
- Clash Detection & report generation through Navisworks of underground Proposed Utilities.
- Preparation of L-section of water & sewer Network through ESurvey Water & Civil 3D Software.
- 3D Modeling presentation and animation video through Infravorks.
- Preparation of Mechanical System Drawings (Ventilation, AC system, Cranes & Hoists).
- Preparation of Basic Engineering Drawings (layout, PFD, P&ID, HFD).
- Preparation of Mechanical & Piping BOQ.
- A forward-thinking person with strong communication, analytical & organizational skills

Career Timeline

Sep'07-Feb'14:
JUSCO (A TATA Enterprise) as Design Engineer
(Mechanical)

Gharpure Engineering & Construction Pvt Ltd.
(GECPL), PUNE

As an Assistant Manager (Mechanical)
[Feb'2022 – Present]

Larsen & Toubro Ltd., ECC Division-EDRC, Water &
Renewable Energy IC.

As a Design Engineer (Mechanical)
[March'2014 – June'2016]

Promoted to Senior Design Engineer (Mechanical)
[Jul'2016– April'2018]

Promoted to Assistant Engineering Manager
(Mechanical) [April'2018– April'2021]

Education

- ▶ **Diploma in Mechanical Engineering** from State Board of Technical Education, Jamshedpur in 2007 with 85.19%
- ▶ 10th from S.M. High School, Darbhanga in 2003 with 64.14%

Technical Skills



Work Experience

Since March'14: Larsen & Toubro Ltd., ECC Division-EDRC, Water & Renewable Energy IC as an Assistant Engineering Manager Mechanical.



L&T Construction
Water & Effluent Treatment

Role:

- ▶ Detail Engineering for Pump House & Lifting Stations for Water supply & Sewage collection system
- ▶ Detail of Water supply Distribution Network & Sewerage network
- ▶ 3D Modeling of Pump Houses
- ▶ Piping Engineering for water Treatment Plant & Sewage treatment Plant
- ▶ Review of Mechanical & other Interdisciplinary Drawings
- ▶ Conducting & Preparation of Specification for Route Survey for Water & waste water Projects
- ▶ Preparation of Mechanical & Piping Detailed engineering drawings
- ▶ Clash Detection & report generation through Navisworks of underground Proposed Utilities.
- ▶ Preparation of Layout, PFD, P&ID, Civil Assignment drawings
- ▶ Co-ordination with client/consultant/site team for engineering issues

Sep'07- Feb'14: JUSCO (Jamshedpur Utilities & Services Company), A TATA Enterprise as a Design Engineer Mechanical

Role:

- ▶ Detail Engineering for WTP, ETP, STP and DM plant
- ▶ Detail of Intake and Rising main, pumping stations
- ▶ Detail of Water supply Distribution Network & Sewerage network
- ▶ Conducting & Preparation of Specification for Route Survey
- ▶ Preparation of DCI, DBR, Basic engineering drawings
- ▶ Preparation of Layout, PFD, P&ID, Civil Assignment drawings
- ▶ Co-ordination with client/consultant/site team for engineering issues
- ▶ Execution and Commissioning support to site team
- ▶ Erection of VT pumps, HSC pumps, Sluice Gates, Mechanical screens
- ▶ Pipe laying and jointing works for MS, DI and HDPE pipes including valves
- ▶ Internal building pipe and cable erection works.
- ▶ Operation and Maintenance of completed projects.



Highlights:

- ▶ Trained a team of subordinates for preparation of Mechanical & Piping detailed engineering of Water & waste water projects.
- ▶ Implemented several Checklist to reduce the Re-work of Engineering in Mechanical & Network Group of Water & waste water projects.
- ▶ Worked as a design Engineer and successfully completed design on time of Haldia 25MGD Water Supply project.

IT Skills

- ▶ Auto CAD, Plant 3D, Civil 3D, Revit MEP, Infraworks, Navisworks, Esurvey
- ▶ Microsoft Office (Word, Excel, PowerPoint, Project & Access).

Trainings

- ▶ Industrial training in Tata Robins Fraser (TRF) Limited for Manufacturing units of Stacker reclaimers, Wagon tippler & other Material Handling Equipment.
- ▶ Presentation skill Training from Tata Steel
- ▶ Out Door Leader Ship Course from TSAF (Tata Steel adventure foundation)

Certifications

- ▶ Professional training on Auto CAD from Technical Institute, SBTE, Jharkhand.
- ▶ In-house Training of 3d Modeling Software (Revit, Cad plant 3D, Civil 3D, Navisworks, Infraworks).
- ▶ In-house training of Water & Waste water projects Design Engineering.

Extracurricular Activities

- ▶ Received merit scholarship consistently during course in the college
- ▶ Successfully participated in Inter-school Cricket & College Tournaments; bagged prize for the same

Date of Birth: 2nd October 1988

Address: Flat No. 503, B Block, Kohinoor Tower, Old Purulia Road No. 1, Mango, Jamshedpur-832110, Jharkhand, India

Languages Known: English, Hindi, and Urdu

Passport Details: N6211190 (issued at Ranchi on 27/01/2016 and valid till 26/10/2026)

LinkedIn Profile: <https://www.linkedin.com/in/md-rashid-hasan-a4179184/>

Annexure

Key Projects Handled at Larsen & Toubro Ltd:

Title: Ranchi Smart City Project:

Description: This contract consist construction of Road with Underground Network of Potable water, Recycle water, sewer network, Irrigation water network, power Duct & Gas line.

Title: Pali water Supply Project:

Description: Construction of Water Supply Distribution Network Improvement with house service connections for Non-Revenue Water reduction and Continuous Water Supply and providing Sewer Network with house connections, Construction of Sewage Treatment Plant & allied works and Operation services of the entire system for 10 years at Pali

Title: Colombo waste water Project:

Description: GREATER COLOMBO WASTE WATER MANAGEMENT PROJECT -Designing, Construction, Installation, and Rehabilitation of Wastewater Pumping Stations of Colombo Municipal Council

Title: Rampur waste water Project:

Description: Survey, Investigation, Collection of all type of field data, soil characteristics, underground utilities and accordingly preparation of Engineering Design & Drawing for laying 14.5 Km sewer line (150mm-600mm), Construction of one Intermediate Sewage Pumping Station (IPS) and Main Pumping Station (MPS), Laying of rising main from IPS to nearby Trunk Sewer Line and from MPS to the STP treated effluent channel/pipe and construction of 5MLD capacity based on SBR technology or any other similar modern proven technology with all appurtenant works including testing, commissioning and mandatory O&M and running of the works for 1 year during DLP, in Zone – V of Rampur Sewerage Scheme on Turn Key Basis.

Title: Allahabad Water supply Project:

Description: Survey, Review the design, redesign where necessary and build new sewerage Network of about 242 km length, 3 Sewage Pumping Stations including all Appurtenant Structures, and operation & Maintenance of Sewerage Network and Pumping Stations for a period of 10 Years in Sewerage District-A of Allahabad, State of Uttar Pradesh, India.

Title: South 24P Project (west Bengal):

Description: Survey, Review the design, redesign where necessary and build new sewerage Network of about 242 km length, 3 Sewage Pumping Stations including all Appurtenant Structures, and operation & Maintenance of Sewerage Network and Pumping Stations for a period of 10 Years in Sewerage District-A of Allahabad, State of Uttar Pradesh, India.

Key Projects Handled at JUSCO:

Title: UCIL, Tumallapale

Description: It Consist of construction of Intake (6.6MLD), Raw Water Rising main (52KM), Hilltop Reservoir, Intermediate Reservoir and Booster pump House, WTP (6.6MLD), ETP (360m³/hr), DM Plant (55m³/hr)

Title: Makeup, Drinking and Fire Water System for Rourkela Steel Plant Expansion (Pkg-084)

Description: It Consist of construction of Makeup Water inlet System, Makeup Water sump, Makeup Water Transfer Pump House, Pressure Sand filtration System for drinking Water, Online Chlorination system, Over Head Tank 50m Staging height, booster Pump House, Makeup, Drinking and Fire water Network

Title: Waste Water Treatment Plant for LD#2, Tata Steel

Description: It Consist of construction of Bowl Classifier, Flash Mixer, Flocculation Chamber, Sludge Thickener, Pipe laying, ICW Pumping System, Softening plant

Title: **Mango Water Supply Project (48MLD)**

Description: It consist of construction of Intake(72MLD) with Inlet Channel, Screen Chamber, Forebay, Pump House, Raw Water Rising Main(4.5KM), WTP(48MLD) Cascade Aerator, Parshal flume, Flash Mixer, Clariflocculator, Rapid Gravity Sand Filter, Under Ground Reservoir, Clear Water Pump House, Chemical House, Clear Water Rising main(7.5Km), Under Ground Reservoir(5Nos.), ESR(4 Nos), Distribution Network(148Km)

Title: **Garden Reach 15MGD WTP at Kolkata, West Bengal**

Description: It consist of construction of Stilling Well, Parshal flume, Flash Mixer, Flocculator, Tube Settler, Rapid Gravity Sand Filter, Under Ground Reservoir, Clear Water Pump House, Chemical House

Title: **Haldia 25MGD WTP**

Description: It consist of construction of Intake Jetty, Pump House, Settled Water Pump House, 25 MGD WTP, Clear Water Pump House