**RAMAYAN PRASAD SAHU**

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**PLUMBING & FIRE FIGHTING DESIGN/ CIVIL PROJECT MANAGEMENT PROFESSIONAL**

Seeking managerial role in design/plumbing engineering /civil construction project management, in the areas of Industrial, residential, infrastructural, and commercial and sports construction.

**PROFILE:**

* Versatile M.E. (Water Resource Engineering) Engineer with professional success of 13 years in contributing civil/plumbing engineering design inputs to facilitate execution of civil projects in airport, residential, commercial, sports, and industrial structures.
* Possess skills in Network Designing (Storm CAD, SEWER CAD, and EPANET) & Environmental System design and modeling, monitoring and sampling.
* Displayed professional brilliance in Ground water modeling (Visual MODFLOW) inclusive of Environmental Modeling software (Arc-GIS, ERDAS, and AutoCAD 2016).
* Demonstrated competencies project planning, designing, scheduling, project engineering, resource mobilization, R&D, fabrication drawings, quantity estimation and final project delivery.
* Proven expertise in setting up perfect coordination with all involved agencies – Architects, Consultants, Clients, Site Engineers, and subcontractors etc. to seek and provide clearances to accelerate the pace of work execution.
* Assertive team leader, trainer and motivator with fine-tuned analytical and troubleshooting skills.

**JOB RESPONSIBILITIES:**

**PUBLIC HEALTH ENGINEERING:**

* Water Supply System :- By Gravity Distribution & Hydro-pneumatic System
* Drainage System :- Soil & Waste Drainage System by Two Pipe System of Sanitation
* Terrace Rain Water Disposal :- Conventional as well as Syphonic Drainage System
* Sewage Treatment Plant :- MBBR, FBBR & SBR based STP
* Water Treatment Plant :- Basic filtration followed by RO system, basic filtration followed by softener for HVAC make up water, Ro for Dialysis unit, RO & filtration system for harvested water
* Garbage Chute
* Solid Waste Management : OWC
* Solar Water heating
* Rain Water Harvesting, reuse and ground water recharge
* Landscape irrigation & Drainage
* Water Bodies :- Water Supply, Filtration and Drainage for Swimming Pool & Jacuzzi
* Infra layout :- Water Supply, Sewer Drain, Storm Water Drainage, Cable Trench, Yard Hydrant System, Gas Piping, LV System etc.

**FIRE FIGHTING, ALARM & PA SYSTEM:**

* Fire Tank Capacities and Pumps
* Wet Riser Cum Down Comer
* Landing Valves & Accessories
* Fire Extinguishers
* Sprinkler System as per hazard classification
* Drencher System for Façade protection, Fire Check Floor, Podium, Fire Compartments etc.
* Fire Chute
* Conventional & Addressable Fire Detection and Alarm System
* Public Address System

**UTILITY PIPING:**

* Piped Natural Gas (PNG)
* Compressed Air Piping
* High Speed Diesel Storage Tank & Piping

**CHRONICLE OF WORK EXPERIENCE**

**Larsen & Toubro Ltd, Realty Division, Mumbai Since April-13**

**Sr. Manager PHE**

* Review and checking of MEP drawings received from consultant.
* Review of Tenders & BOQ for MEP services.
* Managing the projects of PHE & FF services with respect to project guidelines.
* Project planning, co-ordination, budgeting, MEP services, tendering and monitoring the project cost with Time Schedule.

**Projects in Hand**

* Residential Buildings
* Commercial Projects

**Semac Consultants Pvt. Ltd., Mumbai Since Sep’10-March-13**

**Design Manager PHE & FF**

* Initiating Design of External sewerage systems & Rain water collection system and Water Supply System.
* Instrumental at Designing the Pipe Network (internal & external), Pump & Sump, Grease & Oil Separator.
* Coordinating for Internal Toilet Detailing (Sanitary, Vent, Domestic, and Grey & Hot Water) & Drainage work with Architect & Structural Engineer.
* Design of Fire Fighting System (Hose Reel, Hydrant system internal as well as external, Sprinkler System, Conventional & Addressable Fire Alarm System, Fire Extinguishers, Safety Signages, Pumping system) for residential, commercial, industrial, Hotel Buildings etc.
* BOQ preparation for tendering & sub-contractor packages.
* Designing of Compressed Air Supply System (Pneumatic System) along with tendering.
* Designing of Gas Supply System for residential, commercial & industrial building.

**Projects in Hand**

* Residential Buildings, Villas
* Commercial Buildings i.e. Office buildings, Shopping Malls, College Buildings
* Hotel Buildings
* Industrial Buildings.

**Larsen & Toubro Ltd., Mumbai Dec’07-June’10**

**Asst. Engineering Manager (PHE) - ECC Division for Mumbai International Airport Limited.**

* Initiating Design of External sewerage systems & Rain water collection system and Water Supply System.
* Instrumental at Designing the Pipe Network (internal & external), Pump & Sump, Grease & Oil Separator.
* Coordinating for Internal Toilet Detailing (Sanitary, Vent, and Domestic & Grey Water) & Drainage work.
* BOQ preparation for tendering & sub-contractor packages.
* Co-ordination with other discipline and clash analysis using Auto CAD.

**Projects Completed.**

* Design of External Sewerage systems & Rain water collection system and Water Supply System for Terminal-2 Building & Air Traffic Control (ATC) Tower at Chhatrapati Shivaji International Airport (CSIA) Mumbai.
* Design development of enabling works (water, storm water & water supply network) for the existing Terminal building.
* Complete submission of BOQ for Tender Package for South West Pier.
* Successful co-ordination with various services (FPS, HVAC, Electrical, IT & Structure) for the entire Terminal & MLCP.

**Shah Technical Consultants (STC) Mumbai Oct’07- Dec’07**

**Civil Engineer on Drainage, Water Network Design for the state of Libya**

* Entering Ground Level & Elevations on Sewer, Storm & Water Network.
* Designing the Pipe Network using Sewer CAD, Storm CAD & EPANET Software.
* Initiating Generation of L-Section using L-Section software.
* Reservoir Design including BOQ preparation.

**Projects Completed.**

* + Successful completion of drainage & water network for Zwarah & Al-Karim zone for the state of Libya including BOQ, reservoir design & pumping station.

**National Environmental Engineering Research Institute, Nagpur Jul’06 - Jul’07**

*NEERI is engaged in scientific and technological solutions to environmental and natural resource problems having social relevance by effective research and development programs in environmental science and engineering.*

**Project Assistant for Study of Ground Water Aquifer at Puri & its protection from contamination**

* Analysing field data obtained from field survey e.g. Resistivity Analysis, RL Survey, and Pumping Test etc.
* Assessing the data and preparing models for predicting the effect of salt water intrusion in context with ground water, water using modeling software’s - Visual MODFLOW etc.
* Assessing the data and preparing models for predicting the effect of contamination e.g. in context with ground water, water using modeling software’s - Visual MODFLOW etc.
* Preparation of land use mapping using Arc-GIS, ERDAS software.

**Projects Completed.**

* + Developed Salt Water Intrusion Model & study of ground water contamination due to external agencies for Puri Project.
  + GIS contour mapping and land use study for sewage disposal, recycling for Sewage collection & disposal system for Mumbai Phase III.
  + Identification of source of pollutants which drastically affects natural purification of river for the project ‘Development of Damodar valley Project, Calcutta’.
  + Leakage analysis of existing water supply network & replacement of damaged pipe lines for Hyderabad Urban Development Authority.

**EDUCATION:**

**M.E (Water Resource Engineering) – 2006**

S.G.S.I.T.S, Indore, M.P

**B.E. (Civil) – 2004**

R.G.P.V Technical University of M.P

# Technical Skills

# CAD Tools : AutoCAD 2016

Packages : MS Office

OS : Windows XP, Windows 2000.

Programming : FORTRAN, VB.

Modeling : Arc-GIS, ERDAS, Visual MODFLOW, STORM CAD, SEWER CAD,

Software’s EPANET 2.0

**Extra-Curricular Accolades:**

* Participated in “Fire Fighting Measures for High Rise Buildings” at Navi Mumbai.
* Participated in “Waste Management Conclave” at Godrej, Mumbai.
* Participated in “Green Building Concept & Design Review Workshop” at Pune.
* Participated in “Earthquake Engineering Literature Review Workshop” at IIT Kanpur.
* Conducted seminar and presented a lecture on Irrigation Scheduling.
* NCC ‘C’ Certificate from 3 M.P.C.T.I. Gwalior.
* CLAP Certificate in Computer Education Examination.

Date of Birth : 1st July 1980.

Passport No : F8351125

Permanent Address : House no. 198, Derhagali, Akaltari, Akaltara, Janjgir-Champa (C.G)