 CURRICULUM VITAE

 ***NAME: JANAKIRAMAN G***Contact info- +966-505942961/ +91-72049-07326 | janakiraman561@gmail.com | linkedin.com/in/janakiraman-g-177b27199 Tamilnadu, India

**PROFILE SUMMARY**

* Versatile professional with **over 17 years** of experience playing various roles, served as Process Controller & Environmental Engineer
* Excellence in operating Pressure sand filter, Activated carbon filter, UF, MF, High-Pressure pump, RO membrane in RO section and Mixed Bed
* Proficient in ensuring operation & maintenance of Water & Wastewater Treatment Plant like RO,WTP,STP,ETP, DM,MEE Plant,
* Articulate communicator with outstanding analytical abilities, problem-solving, decision-making and interpersonal skills
* Environmental Management System ISO 14001:2015 ,OHSAS 18001

**CORE COMPETENCIES**

* Exceptional in striving on challenging and stimulating projects with deep interest in Environmental Science with latest state-of-the-art technologies, dedication and commitment towards Research and Development
* Extensive experience in SWRO, RO Plant process operation in DCS and Field
* Expertise in monitoring Reverse Osmosis (RO) units and ancillary equipment parameters
* Dexterous at starting operating and securing RO, ETP, STP and WTP units
* Deep insight into operations of Chemical Dosing of ETP, STP and RO section
* Profound knowledge of
* Chemical Cleaning methods CIP for RO & UF Membrane and CEB for Ultra Filtration
* Plant operation via DCS, SCADA, PLC & HMI
* Consummate at ensuring effortless operation of ETP, STP, UF, RO, and WTP plants
* Adroit at sustaining preventive maintenance schedule for overall Plant
* Competent in giving optimum chemical dosage for Industrial Polluted Water
* Adept at process monitoring and troubleshooting of Plant
* **About Safety, Health & Environment** - Environmental Management System(EMS) ISO 14001:2015, SOPs, Environmentel management Plan, Environmental statement, Water & Air Pollution Prevention and Monitoring, Ambient Air Quality Monitoring, Stack Monitoring, Solid Waste Management, Waste Water Management, Environment Health & Safety Aspects, Environmental Auditing(EAS), Statutory & Regulatory Compliance with Government Bodies, Monthly Reports Submission to Pollution Control Board, Consent Renewel, Online Consent Submission (OCMMS)

**AREAS OF INTEREST**

|  |  |
| --- | --- |
| * Industrial Effluent Treatment & Quality Control
 | * Natural Resource Management
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| * Air Quality Monitoring
 | * Environmental Impact Assessment Studies
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| * Water Quality Management & Conservation
 | * Erection Commission of Plant & Execution
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**INSTRUMENTS HANDLED**

|  |  |  |
| --- | --- | --- |
| * Spectrophotometer
 | * PH Meter
 | * Hot Air Oven
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| * Spectroquant Meter
 | * Conductivity Meter
 | * Water Bath
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| * Hack Multiparameter
 | * Turbidity Meter
 | * Filtration Unit
 |
| * DO Meter
 | * Weighing Balance
 | * Distillation Unit
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**WATER PARAMETERS ANALYSIS**

* PH Temp, Conductivity, COD, BOD, DO, Sulphide, Oil & Grease, Total Hardness, Temporary Hardness, Permanent Hardness, Calcium, Magnesium, M-Alkalinity, P-Alkalinity, Chloride, Nitrogen, Iron, Phosphate, Silica, Total Solids, TDS, TSS, MLSS, MLVSS, SSV30, SVI, Residual Chlorine, Total Phosphate, Nitrogen - Ammonia, Moisture, Langilear Saturation Index, Jar Test, Sulphite, Silt Density Index and Some Treatment Chemicals

**AREAS OF EXCELLENCE**

|  |  |  |
| --- | --- | --- |
| * Water Analysis
 | * Equipment Maintenance
 | * Treated Water Quality Verification
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| * Wastewater Sample Collection
 | * Laboratory Reports Development
 | * Sewage Development
 |
| * Water Reports Evaluation
 | * Quantitative & Qualitative Analysis
 | * Record Maintenance
 |
| * Quality Assurance
 | * Environmental Monitoring
 | * Process Chemical Stock Maintenance
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**TECHNICAL SKILLS**

* MS Office | Windows OS

WORK EXPERIENCE

|  |  |  |
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| **Duration**  | **Designation** | **Organization** |
| Feb 2023 – Till dateJan 2020 - Nov 2022 | Plant Operation 50 MLD Desalination plantProcess Controller-**36 MIGD Desalination Plant(SWRO)** | SRACO C/O HAAISCO,, SaudiArabiaAcciona Services, **Qatar** |
| Nov 2016 - Nov 2019 | Shift Engineer-**100 MLD Desalination Plant(SWRO)** | JV Engineers C/O Va Tech Wabag Ltd,**India** |
| May 2016 - Sep 2016 | Environmental Engineer | Precot Meridian Ltd, Bangaluru, **India** |
| Jul 2014 - May 2016 | Environmental Engineer | Easun Reyrolle Ltd, Bangaluru, **India** |
| Jan 2011 - Jun 2014 | Engineer- STP Plant | Sobha Developer Ltd, Bangaluru, **India** |
| May 2010 - Jan 2011 | Senior Chemist  | JV Engineers C/O Va Tech Wabag Ltd |
| May 2009 - May 2010 | Environmental Chemist & Plant Supervisor | JV Engineers C/O Va Tech Wabag Ltd |
| Apr 2008 - Apr 2009 | Chemist | Ion Exchange Service Ltd,Tamilnadu,**India** |
| Dec 2005 - Mar 2008 | Chemist-ETP Plant (Oil & Gas ) | Pure Enviro Eng Pvt Ltd, Tamilnadu, **India** |

* Delegated personnel to shifts to operate water wells, reverse osmosis, filtering and chemical treatment
* Identified initiative to be taken in event of emergencies, namely machine, equipment or power failure or requirement to clean sludge from Plant
* Assessed and evaluated water reports, records, logs and graphs to validate existing and projected water requires adequacy
* Profound knowledge of
* appropriate operation and equipment maintenance used in treatment process, comprising pumps and motors
* principles of water treatment processes and process control
* Stabilized method during unusual conditions
* Developed all Laboratory Reports and took all-inclusive responsibility for Water Analysis
* Involved in
* Water testing and reporting
* Chemical and Biological volumetric
* Quantitative and Qualitative Analysis
* Laboratory and process chemical stock maintenance
* Contributed to
* Operation control and tracked treatment plant for its satisfactory operation and compliance with statutory metrics
* WWTP Monthly Environmental tracking, Reports generation and submission
* record maintenance and reporting
* Strategized and organized quality assurance compliance of treated Water and distribution network system
* Oversaw Water incoming and outgoing Networks
* Sustained laboratory safety
* Authenticated treated Water quality
* Preserved final Water quality
* Counselled and imparted training to operational staff in carrying out analytical testing for process operational controls
* Devised and evaluated laboratory standard operating procedures
* Offered analytical techniques and training support to staff
* Comprehended regulatory approval requirements for sites, developed sewage, collected wastewater samples, tested plans and interacted with operators

**PLANTS HANDLED**

**Capacity of Effluent Treatment Plant (ETP) Handled**

* a) ZDP Textile ETP 850 KLD Capacity, b) Powder coating ETP 150 KLD Capacity, c) Paint shop ETP 60 m3/h Capacity, d) Refinery ETP 200 m3/h Capacity e) 380 KLD Bleaching ETP ZLD

**Capacity of Sewage Treatment Plant (STP) Handled**

* MBR System and Capacity of STP handled (2500 KLD,1500 KLD, 300 KLD, 10 KLD, 48 m3/h, 2 MLD)

**Capacity of Reverse Osmosis Plant (RO) Handled**

* 36 MIGD Desalination Reverse Osmosis Plant, 100 MLD Desalination Reverse Osmosis plant (Desalination RO Capacity: 12\*8400M3/Day 100MLD) and Brackish Water Reverse Osmosis ( 210 m3/h, 40 m3/h, 16 m3/h, eight m3/h, six m3/h)

**Ultra Filtration Plant**

* Capacity of UF handled (50 m3/h, 60 m3/h)

**Water Treatment Plant :**

* Capacity of WTP Plant handled 60 m3/h, 45 m3/h

**EDUCATION**

* Bharathiar University, Coimbatore, India, Master of Science in **Environmental Science** (2011)
* Madras University, Chennai, India, Bachelor of Science in **Industrial Chemistry** (2005)