

## Mr A. Vijayakumar

NATIONALITY: Indian

### SUMMARY

- **More than 13 years experience relating to Industrial water treatment Consultant , Proposal-Technical & Commercial,Project execution,Site managment .**
- **Developed specific technical and designing knowledge in the area of *water & waste water treatment / purification* including Filtration, Clarification, Ion exchange process( *Strong acid cation , Strong base anion and Mixed bed , softener unit* ) Membrane based Technology i.e *Reverse Osmosis systems,Ultra filtration and Nano filtration system, Cooling Tower chemical Treatment system.***
- **Preparation of detailed project report, design basis report, detailed design engineering, technical specifications in water systems for Thermal Power Plants covering Water intake systems including cross-country piping, pre-treatment Plant, Desalination Plant, Circulating water Systems and treatment plant, Chlorination System (Gas as well as Electro-chlorination type), Liquid effluent treatment plant & review of vendor documents**
- **Well acquainted with Industrial / facility water management and maintenance for its reference codes/standards.**
- **Highly skilled in Industrial Waste Water treatment projects and has executed number of projects using *MBBR reactors, Activated sludge process, Extended Aeration System, Attached growth System and Decanter centrifuges.***
- **Highly skilled in Reverse Osmosis water treatment projects and has executed number of projects using *Spiral Wound and Flat Sheet Elements / Membrane system.***
- **Familiar in *equipment & instrument specifications and material procurement* for project requirement.**
- **Excellent field co-ordination and project execution skills.**

### ACHIEVEMENTS

- Successfully designed, erected and commissioned of Deminierization Plant , Textile Effluent Treatment system, Sugar cane waste treatment system , Paper Effluent Treatment system,landray Waste treatment plant , Power plant effluent treatment system, Sewage Treatment Plant, Reverse Osmosis Plants, Ultra filtration and nona filtration etc.
- Enhanced knowledge in water and waste water treatment system.

### EDUCATION

- Master of Business Administrative (MBA) (2008 -2010) , Annamalai University Distance Education.
- Bachelor of Chemical Engineering (1995-'99 ),Bharathiar University, Kongu Engineering College ,Tamil Nadu, INDIA.
- Central Higher secondary School , Pollachai, Tamil nadu (1994 -1995) passed out.
- TRBHS School, Parambalur passed out (1992-1993)

## EMPLOYMENT RECORD

**May '13 –Sep'13**      **Expert Water Technologies Co.ltd, Al jubail , KSA**

**EWTCO** is an EPC Environmental consultancy firm engaging turnkey execution of Industrial Waste Water Treatment Plant, Effluent Treatment Plant, Reverse Osmosis and other environmental related projects.

Position held :            **Design Engineer I**

**Key Responsibilities :**

- Designing and speculation for Industrial waste water system, Reverse Osmosis Units, sewage treatment plant and Effluent Treatment plant.
- Equipment , Instrument specification and verification of PFD and P & I diagrams.
- Proposal and Costing sheet preparation and approval.
- Finalization and approval of material procurement for project implementation.

**Sep '09 –Feb' 13**      **ENMAS GB POWER PROJECTS LTD ( Formerly RG ENERGY CONSULTANCY SERVICES PVT LTD),  
CHENNAI ,INDIA**

Enmas Company providing Technical & Engineering support for Power Plant execution.

Position held : **Senior Engineer –Water Package (WTP,ETP,Cooling Tower and Pumps Package)**

**Key Responsibilities :**

- Preparation of Tender Specification and Scheme for Vendor Offers as a Support for Owners Engineer
- Technical Validation and Comparison of Vendor Offers.
- Placement of Orders to Vendor.
- Vendor Basic Engineering / design documents approval.
- Detail Engineering documents / drawing review / approval.
- Engineering schedule monitoring.
- Material Status follow up as per project schedule.
- Material Inspection at Vendor Shop.
- Test Certificate Evaluation and Dispatch Clearance.
- Site Installation monitoring as per project schedule.

**Projects Handled:**

➤ **1x40MW-CPP-ISMT – WTP Plant Details**

HRSC Clarifier -200 cu.m /hr, MGF +UF+RO+MB – 2x12 cu.m/hr

- **1x40MW-CPP-ISMT – ETP Plant Details**  
HRSCC+MGF+RO1+RO2 – 15 cu.m /hr
- **2x35MW-CPP-Kamachi Sponge & Power Corporation Ltd., WTP Plant Details**  
HRSCC+MGF+UF+RO-2x15 cu.m /hr , SAC+SBA+MB-2x7.5 cu.m /hr
- **2x35MW-CPP-Tulsyan NEC Ltd., WTP Plant Details**  
HRSCC+MGF+UF+RO-2x15 cu.m /hr , SAC+SBA+MB-2x7.5 cu.m /hr
- **1x12MW-CPP-Surendra Mining Industries Pvt Ltd., WTP Plant Details**  
HRSC Clarifier -200 cu.m /hr, MGF +UF+SAC+SBA+MB – 2x5 cu.m/hr ,  
MGF+Softener-1x70 cu.m /hr
- **1x12MW- Co Gen Power Plant –ITC Pvt Ltd., WTP Plant Details**  
MGF+RO+MB-2x25 cu.m /hr, Condensate Polishing –MGF+MB-1x21 cu.m /hr  
Cooling Tower Make up –MGF+Softner- 1x40 cu.m /hr

**Owner Engineer Consultant:**

- **1x7.5 MW – Co Gen Power Plant, Apollo Tyre-WTP Plant Details**  
MGF+ACF+RO+MB-2x42 cu.m /hr
- **1x50MW - Co Gen Power Plant, JK Paper Mill –ERS Details**  
HRSCC+MGF+UF+RO-480cu.m /hr , SAC+SBA+MB-2x170cu.m /hr

**Nov '06 –Aug'09      Get water Solution Pvt Ltd, CHENNAI ,INDIA**

**GET** is an Environmental consultancy firm engaging turnkey execution of Water & Waste Water Treatment Plant, Effluent Treatment Plant, Reverse Osmosis, Ultra filtration and Nano filtration system, Ozonator , swimming pool treatment plant and other environmental related projects.

Position held :            **Manager –Design and Proposal**

**Key Responsibilities :**

- Designing and speculation for Reverse Osmosis Units,Ultra filtration unit , Nano filtration unit,laundry waste effluent treatment plant,sewage treatment plant and Effluent Treatment plant.
- Equipment , Instrument specification and verification of PFD and P & I diagrams.
- Proposal and Costing sheet preparation and approval.
- Providing Equipment, Instrument specifications and Verification of P & I diagrams.
- Finalization and approval of material procurement for project implementation.
- Preperation of basic engineering package for consultant approval.
- Standardizing the Project Operation and Technical manual.

**Nov '05- Oct '06      Global Engineering Systems FZC., Sharjah, UAE.**

GES is a ISO: 9001 certified company dedicated for turnkey execution of waste water treatment system providers in Middle East Countries and specialized in different waste water treatment technologies for industrial effluent, sewage water, grey water, desalinization applications.

**Position held :              Project Engineer   : Water & Waste Water treatment Projects**

**Key Responsibilities :**

- Designing and speculation for MBBR waste water treatment plants & Reverse Osmosis Units.
- Developing customized design for Grey water recycling, Vehicle wash, Oil water and Laundry water treatment.
- Maintenance & Management of various Projects and technologies inclusive of Filtration (media, ultrafiltration, microfiltration, nanofiltration, greensand, activated carbon, multi-media), clarification (polymer, cold lime softening, hot lime softening), ion exchange (sodium zeolite softening, demineralization), adsorption (carbon), and reverse osmosis (RO).
- Developing customized treatment technologies for Middle east market.
- Providing Equipment, Instrument specifications and Verification of P & I diagrams of phase-to-phase project execution requirements.
- Finalization and approval of material procurement for project implementation.
- Standardizing the Project Operation and Technical manual.

**Nov '04 – July '05      Crystal Drop “The Water Master” , Kingdom of Bahrain.**

**Crystal Drop** is a ISO: 9001 certified company dedicated for turnkey execution of Reverse Osmosis Unit providers in Middle East Countries and specialized in different RO technologies for Sea, Brackish and Surface water applications.

**Position held :              Project & Service Engineer   : RO Water treatment Projects**

**Key Responsibilities :**

- Designing and speculation for Reverse Osmosis Units.
- Developing customized RO design for Sea, Brackish and Surface water applications.
- Providing Equipment, Instrument specifications and Verification of P & I diagrams of phase-to-phase project execution requirements.
- Finalization and approval of material procurement for project implementation.
- Standardizing the Project Operation and Technical manual.

**Oct '2000 – Oct '2004      Windsor Sathyam Engineering Company, INDIA**

**WSE** is an Environmental consultancy firm engaging turnkey execution of Water & Waste Water Treatment Plant, Effluent Treatment Plant, Reverse Osmosis, Pellet Reactor, Ozonator , swimming pool treatment plant and other environmental related projects.

**Position held : Project & Service Engineer : Waste Water treatment Projects**

**Key Responsibilities :**

- Designing for Sewage Treatment Units.
- Providing Equipments, Instrument specifications and Verification of P & I diagrams of phase-to-phase project execution requirements.
- Provided technical support for production, execution & commissioning of STP, ETP's & RO's.
- Finalization and Approval of material procurement for project implementation.
- Standardizing the Project Operation and Technical manual.

**RAW WATER TREATMENT PROJECTS**

- As a Team Leader, designed RO Membrane Systems, Nano Filtration systems, Ultrafiltration systems, Softeners, Demineraliser and Iron removal Systems for various capacities.
- Designing and project implementation for successful operation of "Flat Sheet ultrafiltration System".

**WASTE WATER TREATMENT PROJECTS**

- Team Leader in designed "Extended Aeration System, Attached growth System" using different media and biological microbes, fluidized bed Contactor and laundry waste treatment system
- To prepare necessary process and detailed drawings and to get approval from the client Consultants.
- To identify appropriate sub-contractors and to co-ordinate fabrication of equipments with quality as per the specification.
- To prepare necessary detailed drawings and to get approval from the client, consultants.
- To choose appropriate pumps, Blowers, Filters etc., according to the Requirements.
- To co-ordinate and supervise a team of technicians and ensure successful erection and trial runs within the stipulated time.
- To ensure total customer satisfaction.

<b>LANGUAGES</b>
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English, Tamil