##### CURRICULUM VITAE

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| **Mandar Sapatnekar**  **Chemical Engineer**  **Cell No:** +91 9158006138  **E–MAIL:** [mandar\_sapatnekar@rediffmail.com](mailto:mandar_sapatnekar@rediffmail.com)  Current CTC - 20.40 lpa  Expected CTC - As per company standard  Notice period - 1 month  Total experience - 16.5 yrs |  |

**SUMMARY**

I am a Chemical Engineering graduate having experience in Process Design & Detailed Engineering of Water and Wastewater Treatment Plants for Municipal as well as Industrial Sectors.

**WORK EXPERIENCE: Sixteen Years and Two Months in Water & Wastewater Treatment Industry**

**Area of Expertise:**

* Proposals & Tendering
* Process design & Treatment Scheme Selection
* Process Engineering, Process Equipment Selection& Sizing
* Fluid Mechanics, Hydraulics and Material Selection

**OVERVIEW OF EXPERIENCE:**

I have hands on experience for working on various technologies in Water & Wastewater treatment industry. I have handled following Water and Wastewater Treatment technologies during my work tenure,

* **Reverse Osmosis Technologies: Brackish Water RO, Sea water RO, High efficiency reverse Osmosis Systems, ZLD**
* **Primary and Tertiary Treatment: API Separators, Clariflocculators, Media Filters, Chlorination System,**
* **Extended Aeration Technologies: Surface Aerators, Diffused Aeration system, Rotating Bioreactors Cells**
* **Advanced Waste Water Technologies: Membrane Bio Reactors, Sequencing Batch Reactors**
* **High Purity Water treatment technologies: Mixed Bed, EDI, SAC, and WAC.**

I am very much conversant with WHO, EU, USEPA, BIS Water quality standards as well as Wastewater discharge quality standards as per norms of regional pollution control boards. I have handled following types of waters and wastewaters for further treatment based on its application in Industrial, Municipal, Irrigation and discharge purposes.

* **Sea Water Treatment with Reverse Osmosis for Municipal Application**
* **Industrial Wastewater(O&G) treatment with Reverse Osmosis for Recycle and reuse in Oil and Gas Industry**
* **Produced water(O&G) treatment with API Separators, Nutshell Filters followed by Reverse Osmosis for Recycle and reuse**
* **Municipal water and Wastewater for Municipal use and discharge for irrigation**
* **Demineralization and Hi-Purity water treatment for industrial use(Boiler Feed, Semiconductor Industries)**

**professional career in detail and job profile:**

* **europem india private LIMITED (Part of europem nv, belgium)**

***(Working from June 2017 to till date)***

**Designation: Manager-Process Engineering**

**Job Profile:**

* FEED, Process Engineering and Detailed Engineering for Incinerators and Flares projects
* Preparation of BEP & Basic Engineering Drawings- PFD, P & IDs & HFD for proposed scheme.
* Entire process engineering work till HAZOP Sessions and SIL Studies
* Process Equipment selection & Preparation of Technical specifications for Process Equipment’s
* Technical Evaluation & Cost Estimation of Process Equipment’s based on vendor offers
* Site coordination during Erection and Commissioning

**Current Assignments and Project Executed:**

1. Working on RIL SIBUR Incinerator project Located at Jamnagar, Gujarat India with Consultant Tecnimont ICB, Mumbai as Process Manager.
2. Worked on project “Enhanced Reactive Thermal Oxidizer” for Oil and Natural Gas Corporation of India(ONGC), Mumbai as Process Manager.

* **PROCESS ENGINEERING Consultant FOR water and wastewater treatment projects**

***(Worked from May 2016 to May 2017)***

**Designation: Self Employed Professional**

**Job Profile:**

* Consulting for FEED, Process and Detailed Engineering for Water & Wastewater Treatment.
* Support during proposals/Tender stage to the Water and Wastewater Treatment EPCs.
* Consultation for Treatment Scheme Selection for water & Waste water Treatment Plants.
* Preparation of BEP & Basic Engineering Drawings- PFD, P & IDs & HFD for proposed scheme.
* Process Equipment selection & Preparation of Technical specifications for Process Equipment’s
* Technical Evaluation & Cost Estimation of Process Equipment’s
* **QATAR KENTZ WLL(member of snc-lavalin group) doha, qatar**

***(Worked from April 2014 to March 2016)***

**Designation: Senior Process Engineer-Water & Wastewater**

**Job Profile:**

* FEED and Detailed Engineering-Process for Water & Wastewater Treatment
* Selection of process scheme for water & Waste water Treatment Plants.
* Proposal Engineering, Cost estimation, Project bidding & Tendering.
* Preparation of BEP & Basic Engineering Drawings- PFD, P & IDs & HFD for proposed scheme.
* Process Equipment selection & Preparation of Technical specifications for Process Equipment’s
* Technical Evaluation & Cost Estimation of Process Equipment’s based on vendor offers
* Site coordination during Erection and Commissioning

**Project Executed:**

Worked on Qatar Gas Wastewater Recycle and Reuse Project. This project consists of process treatment scheme as below,

1. **Deoilers** - Removal and reduction of Oil content in sour water
2. **Sand Filters:** Removal and reduction of suspended solids
3. **Nutshell Filters:** Polishing treatment for removal of Oil before MBR
4. **MBR:** Biological Process for Organic content reduction (COD and BOD)
5. **ACF:** Polishing treatment for removal of COD before RO
6. **BWRO:** Production of Pure water by reducing TDS
7. **Sludge Treatment:** Sludge treatment for the sludge generated form plant

* **Aquatech systmes (aSIA) PVT LTD, Pune, india**

***(Worked from March 2011 to March 2014)***

***Designation: Deputy Manager- Process***

**Job Profile:**

* Process Engineering for Water & Waste Water Treatment Plants during bidding stage.
* Proposal Engineering & Support during proposal/Tender stage
* Selection of process scheme for water & Waste water Treatment Plants.
* Cost estimation, Project bidding & Tendering.
* Preparation of BEP & Basic Engineering Drawings- PFD, P & IDs & HFD for proposed scheme.
* Process Equipment selection & Preparation of Technical specifications for Process Equipment’s
* Technical Evaluation & Cost Estimation of Process Equipment’s
* Site coordination during Erection and Commissioning

**Project Executed:**

1. 15 MIGD SWRO Desalination Plant for FEWA at RAK, UAE.
2. RO-DM Plant for HMEL, Bhantinda with EIL Consultant.

* **Siemens water technologies, mumbai, India**

***(Worked from November 2009 to February 2011)***

**Designation:Senior Executive Engineer**

**Job Profile:**

* Process Engineering for Water & Waste Water Treatment Plants during bidding stage.
* Proposal Engineering & Support during proposal/Tender stage
* Selection of process for water & Waste water Treatment Plants.
* Cost estimation, Project bidding & Tendering.
* Preparation of BEP & Basic Engineering Drawings- PFD, P & IDs & HFD for proposed scheme.
* Process Equipment selection & Preparation of Technical specifications for Process Equipment’s
* Technical Evaluation & Cost Estimation of Process Equipment’s
* Site coordination during Erection and Commissioning

**Project Executed:**

1. 2 X 660 MW Condensate Polishing Plant for JPVL with DCPL Consultant
2. 300 m3/day Filtration Plant for Bhushan steel with Mecon consultant

* **Aquatech systmes (aSIA) PVT LTD, Pune, india**

***(Worked from January 2008 to October 2009)***

**Designation: Senior Engineer- Basic Engineering**

**Job Profile:**

* Process Engineering for Water & Waste Water Treatment Plants during bidding stage.
* Proposal Engineering & Support during proposal/Tender stage
* Selection of process for water & Waste water Treatment Plants.
* Cost estimation, Project bidding & Tendering.
* Preparation of BEP & Basic Engineering Drawings- PFD, P & IDs & HFD for proposed scheme.
* Process Equipment selection & Preparation of Technical specifications for Process Equipment’s
* Technical Evaluation & Cost Estimation of Process Equipment’s
* Site coordination during Erection and Commissioning

**Project Executed:**

1. 3000 GPM Pretreatment & RO Plant for PSEG Fossil LLC, New jersey, USA
2. 300 m3/day RO Plant at HPCL, Mumbai with EIL Consultant

* **ion exchange (i) ltd. mumbai, India**

***(Worked from December 2006 to December 2007)***

**Designation:Executive Engineer-Process & Mechanical**

**Job Profile:**

* Process Engineering for Water & Waste Water Treatment Plants during bidding stage.
* Proposal Engineering & Support during proposal/Tender stage
* Selection of process for water & Waste water Treatment Plants.
* Cost estimation, Project bidding & Tendering.
* Preparation of BEP & Basic Engineering Drawings- PFD, P & IDs & HFD for proposed scheme.
* Process Equipment selection & Preparation of Technical specifications for Process Equipment’s
* Technical Evaluation & Cost Estimation of Process Equipment’s
* Site coordination during Erection and Commissioning

**Project Executed:**

1. 6 MLD Sea water Desalination Plant for Gujarat Anjan Cement Limited, Gujarat.
2. Partly worked on Sea water Desalination Plant for CPCL, Chennai, Project.

* **aquachem enviro engineers (p) ltd, Mumbai, india**

***(Worked from August 2002 to November 2006)***

**Designation:Senior Project Engineer**

**Job Profile:**

* Process Engineering for Water & Waste Water Treatment Plants during bidding stage.
* Proposal Engineering,Cost estimation, Project bidding & Tendering.
* Selection of process for water & Waste water Treatment Plants.
* Preparation of BEP & Basic Engineering Drawings- PFD, P & IDs & HFD for proposed scheme.
* Process Equipment selection & Preparation of Technical specifications for Process Equipment’s
* Technical Evaluation & Cost Estimation of Process Equipment’s
* Site coordination during Erection and Commissioning

**Project Executed:**

1. 300 m3/day ETP for Rashtriya Chemicals & fertilizers Limited, Alibaug
2. 250 m3/day ETP for Technova Imaging systems (P)Ltd.(Unit-1), Mumbai
3. 200 m3/day ETP for Ranbaxy laboratories Ltd., Mohali, Punjab
4. 300 m3/day ETP for Ranbaxy laboratories Ltd., Pontasahib, HP
5. 100 m3/day STP For Bharat Electronica Limited, Taloja, Mumbai.

**EDUCATIONAL QUALIFICATION:**

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| **Exam / Degree** | **Year** | **Board/ University** | **School / College** | **Marks** | **Area/ Field.** |
| B. E (Chemical) | 2001-2002 | Shivaji | T.K.I.E.T  Warananagar | 62.07% | Chemical Engineering |
| H.S.C | 1997-1998 | Pune | V.V.J.C, Pandharpur. | 77.83% | Physics, Chemistry, Maths. |
| S.S.C. | 1995-1996 | Pune | H.D.H.S Solapur | 61.06% | Science, Maths. |

**COMPUTER PROFICIENCY:**

Sound Knowledge of AutoCAD, MS Office& other Engineering software’s.

**PERSONAL DETAILS:**

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| **Date of birth** | **:** | July 24, 1981 |
| **Permanent Address** | **:** | Flat No. 501, K-Wing, SonigaraVihar,  Survey No 85/86, Aadarsh Nagar, Kalewadi,  Pune-411017, Maharashtra, India |
| **Marital status:** | **:** | Married |
| **Languages known** | **:** | English, Hindi, Marathi |
| **Passport No.** | **:** | H4528224 |

**AREA OF INTEREST:**

Process Design& Proposal Engineering, Process Equipment selection, Treatment Scheme Selection, Cost Estimation &Tendering,

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| **DATE:** | **PLACE:** |