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Highly enthusiastic and energetic Chemical Engineer with experience in Energy Auditing, Process Engineering, Pre-bid Services, Proposal Engineering, Detailed Design, Project Management, plant studies and troubleshooting.

Proven track records of success in identifying the plant issues and carrying out the studies for energy optimisation and cost saving.

Poised for next level of success as a **Process Engineer** within a growing organisation to utilise my full enthusiasm towards learning and adding value to the company.

Nature of work in Energy Auditing:

- Site visit
- Study Reports
- Implementation at site
- Problem Definition
- Findings discussion with client
- Proposal Preparation
- Recommendations & Conclusions

Nature of work in Process Engineering:

- Study of SOW
- Engineering Calculations
- Support to Report Preparation
- CTR and Proposal preparation
- Discussion with client
- Process Data Sheets
- Process Simulation
- Recommendations & Conclusions
- Process Drawings

Additional Knowledge Secured:

- Heat Exchanger Design
- Distillation Column design
- Utilities

Key Accomplishments

3 years' experience in energy auditing and process engineering sectors including, Boiler & Steam Distribution System, HVAC System, Refrigeration System (Chiller Units), Cooling Tower, DG Sets, Process Pumping System, Compression System, Pressure Reducing Train (Oil & Gas).

Familiar with various process softwares: HYSYS, FlareNet, PIPESIM, Auto-CAD, Smart Plant P&IDs.
Computer Literacy: MS Word, Excel.

Received appreciation and reward in **Energetic Consulting Pvt Ltd.(ECPL)** in terms of elevation to **Senior Engineer** Level as part of my contribution towards completing the assigned projects within schedule and to the client's satisfaction.

Worked as **Site Commissioning Engineer** for **HVAC System**.

Professional Experience

Elixir Consultants UK • Mumbai • Dec 2017 – Present

PROCESS ENGINEER

Responsible for supporting the Process Engineering activities from Mumbai, India. I am being the first point of contact to evaluate and interpret client's requirements and for managing the process engineering deliverables for all the projects handled worldwide.

Pre-bid Support to Arabian Industries Oman for Salalah Gas Plant

Continued...

- Heat and Mass balance using HYSYS Simulation.
- Heater duty calculation using HYSYS simulation to achieve temperature 20⁰C higher than hydrocarbon dew point.
- Separator sizing calculations to remove condensate formed due to pressure reduction across PCV.
- Preparation of Process Data Sheets (PDS) for PCV, Electrical heater and Separator.

Energetic Consulting Pvt Ltd.(ECPL) • Mumbai • Jan 2015 – Dec 2017

SENIOR ENGINEER

Managed numerous **Energy Auditing** work scopes for various clients at various locations.

JOB RESPONSIBILITIES

- Collection of Process and thermal data related to energy consumption by field measurement.
- Data collection and calculation for Steam load, Cooling Tower, Chiller, Steam traps study, Pumps calculations.
- Preparation of BOQ and Documentation.
- Evolution performance of Air Handling Units and preparation of P&ID for Chiller system.
- Monitoring Process Parameters and Man Power Management.

Areas Covered by Electrical Energy Audit:

Electrical Distribution Network and Transformers | Compressed Air System | Cooling Tower | Refrigeration Systems, AHU, Chillers, HVAC, VAM | DG sets

Areas Covered by Thermal Energy Audit:

Boilers | Steam Distribution | Thermal Insulation | Steam Traps | Heat Exchangers | Furnaces, Boilers, Ovens | Hydraulic System

PROJECTS HANDLED:

1. Sandoz Pvt, Ltd.Mumbai.

Reviewed the Steam distribution system as per design basis and reported any anomalies.

2. Godrej & Boyce Ltd. Mumbai.

Diagnostic field study to establish Process Pumps and Improve Efficiency.

3.TATA Communication Ltd. Pune.

Study of facility to enhance safety system.

4. Seven Hills Hospital, Mumbai.

Existing system was studied to identify operational issues in Boiler And Improve Boiler Efficiency.

5. Indoco Remedies Ltd. Goa.

Study of Boiler efficiency, Insulation losses Calculations and process steam balance.
Compressor Leakage Test.

6.Mahindra & Mahindra Ltd, Mumbai

Study of Existing HVAC System and Duct Design, Evolution performance of Air Handling Units, Existing ducts are studied and modified, Preparation of PFD and P&ID of Chiller System, Preparation of AHU layout Drawing and Pipe Sizing, Selection of process pumps and Preparation of BOQ.

ACADEMICS:-

- **B.Tech (Chemical Technology)** from Shivaji University, Kolhapur with 68.69% (First Class with Distinction) during year 2010-2014.
- **Smart plant P&ID**
 - Undergone training on SP P&ID in Monarch Techno Engineering Solutions Pvt.Ltd, Aurangabad branch and has also worked in SP P&ID project being carried out for KNPC (Kuwait National Petroleum Company).