

PREITY SANTANI

M.TECH CHEMICAL ENGINEER

CONTACT

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Dubai, UAE
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EDUCATION

CHEMICAL ENGINEERING
Major Education - M.tech
University Name – M.S.U
Baroda
2005-2007

SKILLS

- Flare Relief and PSV Sizing
- Surge Calculations for Oil transfer and Fire Water network – Transient/Olga
- Hydraulic Simulation – PIPENET/HYSYS
- Blowdown and Depressurisation Calculations – SHELL DEP
- HAZID/HAZOP/SIL(Desktop Review)
- HP Flare KOD, Tank Flare KOD sizing – Shell/API
- Storage Tank sizing and inbreathing/outbreathing calculations
- Thermal Design of Shell & Tube Ex
- Concept Development, Pre-FEED (FED) and FEED and Detail Engg
- Process Documents and other Process calculations
- Control Valve Sizing – Liquid/Gas.

PROFILE

As a reliable and highly experienced Chemical Engineer with 15+ expertise in PROCESS ENGINEERING. Certainly, you would find my skills and talents to be of great value in the field of DESIGN ENGINEERING SERVICES.

International Experience –

- ✓ Deputation to Singapore (2014) & (July 2017)
- ✓ Wood Group PSN - Dubai (Basrah Gas Company , Iraq)
- ✓ Dubai Petroleum – Dubai
- ✓ KBR, Abu Dhabi

Excellence Award

Recipient of 'THE 2023' award in recognition of effort resulting in a high level of productivity and performance by KBR, INC.USA/BP ROO

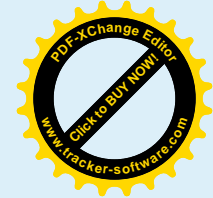
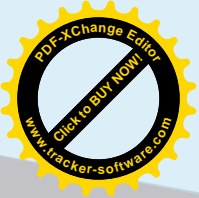
WORK HISTORY

Sr No	Job Title	Company Name	Employment dates
1	Senior Process Engineer	Kellogs Brown – KBR	Nov 2022
2	Senior Process Engineer – Dubai, UAE	Wood Group – PSN (Secondment to Dubai Petroleum)	Jan- 2022 – Oct 2022
3	Senior Process Engineer – Dubai	China Petroleum Engineering Co, Ltd, Dubai (ADNOC ONSHORE)	January 2020-December 2021
4	Process Engineer	Wood Group, PSN – Dubai UAE	August 2018 - December 2019
5	Senior Process Engineer	Larsen and Toubro – Vadodara India	January 2017 – July 2018
6	Assistant Manager	OilTanking- GmbH, Mumbai India	January 2013 – December 2016
7	Process Engineer	FFIL, Mumbai India	January 2012-December 2012
8	Process Engineer	Shroff and Associates, Mumbai India	November 2008 – December 2011
9	Trainee Engineer	Atul Chemicals, PVT LTd, Valsad Gujarat	June 2007 – October 2008

WORK SUMMARY

Checking and Approving

- ✓ Process PEFS, PFDs, PSFSs and UFDs for the process design packages based on [Shell DEP 01.00.02.11-Gen.](#)
- ✓ Calculations of PSVs for Vapor Breakthrough Case (Column Overhead PSVs), Fire Case, Blocked Outlet, Multiple PSVs at WOOD in Aspen Hysys, in compliance with [Shell DEPs 80.45.10.10-Gen.](#) Pressure Relief Valves (White Oils), Storage Tanks (3000m³), Major process Pumps (by PIPENET Vision1.6).
- ✓ Hysys Steady State simulation and preparation of Heat and Mass Balance.
- ✓ HP Flare KOD, Tank Flare KOD sizing using both API and SHELL DEP methods.
- ✓ Flare Relief, PSV Sizing using HYSYS and FLARENET and report generation.



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SOFTWARE

Chemcad Version 7
Aspen Hysys- V8.4, V9, V 10
Pipe Net Vision 1.6, 1.8, 1.9
MS Office, C Programming,
Speed Typewriting of 40 & others

PERSONAL

DOB – 05/05/1983
Married
UAE VISA – Residence Visa – Sept
2024
USA VISA – Business Visa -
December 2022

CLIENTS

- Basrah Gas Company (BGC, Iraq)
- Oil tanking Germany
- Oil tanking Houston
- Dorf Ketel, Outotec GmbH for Sulphur recovery system (formerly LurgiMetallurgie)
- M/s PT OT Tank Storage Terminal at Karimun, Indonesia
- M/s KPC's Nairobi-Mombasa Pipeline Project – Bidding Project
- M/s Exterran Soccar Aurora Limited
- SABIC E&PM

AWARDS

- BEST PERFORMANCE (Karimun, Indonesia) TEAM (Yr-2013-14), Special Recognition (Yr-2014-15),) from PT OT Karimun, Indonesia.
- Won State level prizes in SPORTS

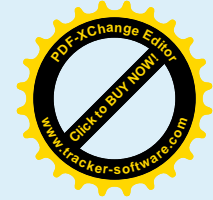
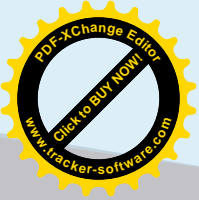
- ✓ Thermal Design of Shell & Tube (by Chemcad Version 7), Jet Mixer Calculations.
- ✓ Engineering and quality audit of P&IDs, piping isometrics, vendor interface drawings, level co-ordination diagrams and other process data sheets.
- ✓ Depressurization and blowdown, LDT calculation based on Shell DEP 01.00.01.30-Gen
- ✓ Perform complete integrity checking of Process, Utility, Auxiliary and Vendor P&IDs. Preparation of as built (Process and Utility) P&IDs, Plot Plant Layouts, Line list etc. based on Shell DEP 01.00.02.11-Gen.
- ✓ Preparation of Cause and Effect diagram of ESDs and control narrative for advance process control system of process unit. Shell DEP 32.80.10.14-Gen.
- ✓ Surge Calculations for Oil Pipelines and Fire water network as a part of technical safety.
- ✓ Isolation, Vent & Drain Philosophy, Over pressure Protection Philosophy.
- ✓ Designing of processes concerned in different types of water and wastewater treatment plants.
- ✓ Reactor Design (Heating/Cooling and time), Agitator Power Calculations.
- ✓ Control Valve Sizing – Liquid/Gas.
- ✓ Estimation of CTR (Cost, Time, Resource) and MDR (Master Document Register) requirement, Document Deliverable Schedule, Internal and External review meetings.
- ✓ Familiar with International standards, Codes and best practices i.e. API, OISD, ASME, Shell DEP's

Participation and Review in

- ✓ Design review/HAZOP HAZID SIL review/Internal review/Client review meetings. Independently handled Design, Client (For Karimun, Singapore) and internal meetings, interacted with Clients and completed the close-outs.
- ✓ Qualified HSSE training held at IOTL.

ACHIEVEMENTS

- ✓ Expertise in Oil & Gas/ Hydrocarbons/ Petrochemical/Pharma Projects/Specialty Chemicals processing and Product Pipeline applications. (Detailed Design, Concept Development, Pre-FEED (FED) and FEED Projects and alternative technical solutions.)
- ✓ Expertise in preparation of Process Design Reports (Development of FEED package) such as Basis of Design, Simulation Reports (of Surge, Hydraulics, HYSIS, Reactor Design, etc.), Operating and Control Philosophy, Process System Description, Process Design Basis, Safeguarding Memorandum, development of PFDs, Process Safeguarding Flow Scheme (PSFSs) and detail P&IDs for various process (including Oil and Gas product transfer/receiving/storage and Terminating).
- ✓ Achieved expertise in Process calculations (Hydraulic, Surge, PSV Sizing, KOD sizing)
- ✓ BEST PERFORMANCE (Karimun, Indonesia) TEAM (Yr-2013-14), Special Recognition (Yr-2014-15),) from PT OT Karimun, Indonesia



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COMPANY

KELLOGS BROWN
& ROOT INC

KBR INC



LOCATION

ABU DHABI, UAE

ROLE

SENIOR PROCESS ENGINEER

PROCESS SIMULATION

HYDRAULIC – LIQ/GAS/AQ

HYSYS – V12.1

FLARENET SIMULATION

PROFESSIONAL EXPERIENCE

Process Engineer – LEAD ENGINEER for the SOL project (Team of two engineers)
KBR KELLOGS BROWN AND ROOT INC | ABU DHABI, UAE | NOV 2022

SOW/ESR Summary: BP ROO Project

- The overall aim of the scope was to define and communicate the safe operating limits at each station and production train for the hydrocarbon facilities.
- The information shall then be held and managed in a controlled ROO document as a master reference.

Handled Responsibilities


- The scope covers the hydrocarbon production facilities at all 14 degassing stations and all separation trains / oil tanks unless defined as permanently out of service.
- **FLOW / PRODUCTION CAPACITY SAFE OPERATING LIMIT SCOPE**
- **A primary case** is built and initial assessment and then the remaining cases were run as sensitivities to identify the limits.
- A validation case to compare to operating data was used for Main Pay / Mishrif split into the train.
- Process Simulation – GOR Adjustments, Varying Mixture compositions, H2S and CO2 Composition
- Hydraulic Simulations – For 12 Trains
- LCV/PCV/FCV sizing – Control Valve Characterizing
- Flare Calculations – Aspen Flare Analyzer
- Deliverables:
 - Report for each station summarizing the basis, methodology for the study and conclusions.
 - Dashboard for each station with PFDs identifying the limits in the station / train.
 - Overall safe operating limit table (including a copy in an editable format for future update by ROO as a controlled document).
 - Copy of Hysys and Flare net models developed for each station assessment.
 - Copy of hydraulic calculations and control valve capacity calculations
 - Summary of site survey data collected including control valve data identified for each station.
 - Excellence Award for outstanding performance and lasting contribution to KBR,INC in Middle East region.
 - Client appreciation for DS04 SOL Report – BP ROO -SOL Project Manager, Mr Kareem ELALFY (Rumaila Operations)

Excellence Award

Recipient of 'THE 2023' award in recognition of effort resulting in a high level of productivity and performance by KBR,INC,USA/BP ROO



[External] Thank You | Great Milestone Achieved | DS04 SOL Report

 Kareem Elalfy [WOOD] <Kareem.Elalfy@roobasra.com>
To: [Redacted], [Redacted], [Redacted], [Redacted], [Redacted], [Redacted]
Cc: [Redacted] ROO M&E Lead Process Engineer
1 This message was sent with High importance.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear All,

I would like to thank you for the tremendous effort done to place the new Rev of DS04 SOL Report A02, after consolidating all comments raised against the first Rev A01 (hoping we won't receive more comments 😊)

And I would like to mention that process team showed a great dedication and high level of quality production, and precisely:

@Preeti Santani you made a massive great work and showed a huge dedication, you are the key player of this project for real.

First point is that:

The presentation you are using was issued based on the first revision of the report Rev. A01, currently all numbers are changed based on new assumptions in Rev. A02.

Accordingly, this presentation is not reliable anymore.

Secondly:

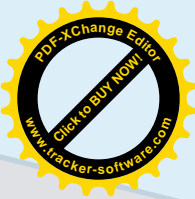
The capacity of Train 3 was increased to 97 mbd, as The previous train submitted had considered Dehydrator Oil LCV - Rated Cv: 950 since the site data was not available. In the current submission, we obtained the data from site and when we floated to Vendor the rated Cv was mentioned as 2820.
The capacity of train 3 was stated based on:

1. Available in place process control valves capacities (current Cv)
2. Hydraulic calculation resulted from current production train piping and architecture (in both summer and winter)

I had copied Preeti our process engineer whom where on the top of articulating the results based on what mentioned above + you will find in the DS04 report appendices all marked up PIDs to get the corresponding piping length (for hydraulic calculation) & simulation done to verify the train 3 capacity in summer and winter case. (happy to discuss further on Monday when KBR team will be back, as they are in week end now)

Happy to discuss further if needed.

Kareem El Alfy
SOL Project Manager
Rumaila Operations
Mobile: +20 1002025277
Iraq Mobile: +964 7824421370
Personal e-mail: kareem.elalfy@roobasra.com



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PROFESSIONAL EXPERIENCE

Senior Process Engineer

Dubai Petroleum, DUSUP Dubai Supply Authority | Dubai, UAE | Beginning Date- Jan 2022



- ✓ Dubai Petroleum is responsible for managing Dubai's offshore petroleum assets. Their key focus is to continue implementing the latest in technological solutions to maintain existing resources as well as exploring for future oil and gas opportunities.

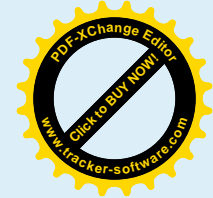
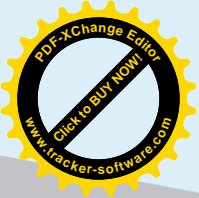
- ✓ Scope of work:-
Hiring of Skid Mounted Production Facilities with O&M Services at Bantumilli South Field
Process Scope of Work: P&IDs, Process Datasheet, Line Sizing for the Bantumilli Gas Processing Plant(South Field)

Complete Skid Mounted Production Facility/package/Surface Production System will, as a minimum, include Skid mounted Well Manifold with HP, Test Header (for connecting three wells), skid mounted HP Separation Skid with metering facility for Gas, condensate/oil and produced water, skid mounted Test Separation Skid with metering facility for Gas, condensate/oil and produced water, HP KOD, Sales gas KOD, Condensate stabilizer, CO₂, H₂S and moisture removal skid, HC dew point skid, Incinerator for Handling H₂S gas, Storage for Condensate/Oil and Effluent, Metering skids for dispatch of gas for internal use & sales and Condensate/Oil, Chemical /dosing Skids (Methanol and De-oiler etc.), Complete flare stack with all instrumentation & controls, Instrument air compressor package, Generators for power and, storage tank, loading gantry along with pumps, Fire Fighting System as per the applicable OISD standard consists of Network, Storage Tanks & pumps).

- ✓ At DPE, I manage the company Process Hazard Analysis (PHA) program and the PHA action close- outs, few of them listed below

FG System (HP Separator) RA-15	Review means to remove HP/LP interface concerns downstream 2"VB-1610 including the change of A1-spec piping/valving /Installation of RO etc. This review is to include for the case of gas blowby.
FG System (Conditioning) RA-21	Confirm sizing case for PSV-9067 allows for PV-9026 bypass (1"VB-1210) – may need to be locked closed.
Oil Production Wells & Manifolds	Verify that PSV-6054 is sized for PCV-6054 fail open case.
FG System (HP Separator)	Confirm requirement to retain both PSV-7366A & B online and if not necessary, consider reverting to a duty/standby arrangement.

LOCATION
DUBAI, UAE
ROLE
SENIOR PROCESS ENGINEER



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COMPANY
WOOD GROUP
PSN

wood.

LOCATION
DUBAI, UAE

ROLE SENIOR PROCESS ENGINEER

Basrah Gas Company (BGC) is implementing a phase-approached program of rehabilitation, rejuvenation and expansion projects in South Iraq. BGC is a 25-year joint venture with state run South Gas Company holding a 51% stake, Shell 44% and Mitsubishi 5%. This joint venture is designed to capture, treat and monetize associated gas currently being flared from three southern oilfields.

Project: WG-105 – NR NGL SPLIT FLOW TO KAZ

Project Objective :

The objective of the project WG-0105 is to utilize the gas processing capacity of MD3/4 up to its design capacity of 330 MMscfd, and to maximize BGC NGL extraction capacity by routing about 150-200 MMscfd to KAZ NGL by adding a split flow functionality at 'Qurainat pipeline to KAZ NGL'

PROFESSIONAL EXPERIENCE

Process Engineer

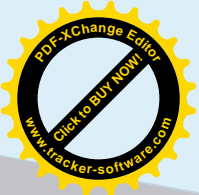
WOOD GROUP PSN | DUBAI, UAE | AUGUST 2018 – DECEMBER 2019

Handled Responsibilities:

- ✓ Pump Hydraulic calculation – SHELL DEP 31.29.02.30-Gen.
- ✓ Thermowell Datasheets, Process P&IDs, Process PFDs, Process PSFSs, Pressure Transmitter Datasheets.
- ✓ Steady State hydraulic study for sizing flow lines/production manifold/export pipeline, back pressure estimation, discharge pressure requirements.
- ✓ PSV Calculation and Datasheet Preparation – By Shell DEP 80.45.10.10.
- ✓ Documents - Basis of Design, Operating and Control Philosophy, Safeguarding Memorandum, SIL Activities, HAZOP, SIL Workshops.
- ✓ HAZOP ACTIONS CLOSE OUT – CURRENTLY
- ✓ Control Valve Sizing – Liquid/Gas.
- ✓ Preparation of Tie-in classification technical note to decide tie-in execution strategy in order to avoid shut-down of currently running facilities based on feedback from BGC operations team.
- ✓ Feasibility study for separator deferment Feasibility checked if the production can be sent directly to central separator via gas trunk line.
- ✓ Performed adequacy calculations of existing facility such as flow lines, pressure control valve.
- ✓ Process related input for preparation of feed scope of work.
- ✓ Isolation, Vent and Drain Philosophy, overpressure protection philosophy.
- ✓ Calculation for flare KOD sizing, crude oil transfer pumps, drain drums.
- ✓ Fluid List and Line List.
- ✓ Involved in Design Review action closeout and HAZOP actions closeout in ATMS.
- ✓ Surge Calculations for fire water network as part of process for Technical Safety.
- ✓ Participated for Desktop Review for SIL classification.

Other Projects associated with: WG0089 – KAZ, New Truck Loading Station (FEED)

WG 44-3 Basrah NGL Pipelines and Tie-in, WG0085 – NR NGL PSV Sizing, WG-0014 – Zubair Oil Production Field, WG-0096 – Fire Water Surge Analysis – PIPENET V1.9, Desktop Review for SIL Classification,



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COMPANY
L&T TECHNOLOGY SERVICES



LOCATION
VADODARA, INDIA

ROLE
SENIOR PROCESS ENGINEER

Larsen & Toubro is an Indian multinational engaged in technology, engineering, construction, manufacturing and financial services with USD 17 billion in revenue. SABIC E&PM engaged Larsen and Toubro Limited through Long Term Contract to provide Engineering Services to E&PM Site Projects and its affiliates in Saudi Arabia.

Projects associated with:

EA-L&T-2017-311 - PDP for SKIM SYSTEM in 1 TPS and 2 TPS - Affiliate - SHARQ

SP-171200001.30 – Install Standby PSV - Affiliate - SADAF

AS-180100015 – De-Superheater Upgrade - Affiliate - SADAF

AS-180100011 – Installation of Steam Stripper – Affiliate - SADAF

SP-171200008_ PE 1&2 plant FEED Analyzers

Feasibility Check for Toluene Tank - (Process As built site based at Singapore location) -Affiliate - SABTANK

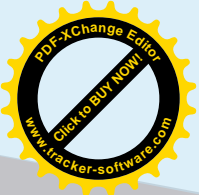
PVC Recycle Demineralized water and VCM wastewater treatment plant, Petrokemya, Sabic

Odour Removal Treatment, Ferrero

PROFESSIONAL EXPERIENCE

Senior Process Engineer
L&T | VADODARA,INDIA | JAN 2017 – JULY 2018

- ✓ Process P&IDs, Datasheets for Filter, Pump Hydraulic
- ✓ Datasheet for New HP Steam Desuperheater package, Control Valves and Pressure Safety Valve (Update)
- ✓ Process Calculation for BFW Supply Lines and HP Steam Inlet and Saturated Steam outlet lines as well as necessary PSV adequacy calculations.
- ✓ RFQ for De-Superheater
- ✓ P&IDs Updating & Demolition
- ✓ Tie-in List
- ✓ Design Basis
- ✓ Incorporating PHA recommendation.
- ✓ Revalidation/ Design of the stripper column design given in design report SD-17-0025.
- ✓ Spent caustic cooler (11E149) re-rating and datasheet preparation.
- ✓ New P&ID for steam stripper column system
- ✓ Stripper Bottoms Pump Hydraulic Calculations
- ✓ Stripper Bottoms Pumps Datasheet
- ✓ Stripper Datasheet along with specification for internals
- ✓ Hydraulic Calculations for Line Sizing of utility i.e. steam supply to stripper column and Cooling water supply/ Return.
- ✓ Revamping GC 1AT2101 (currently analyzing CO and CO₂) and associated accessories.
- ✓ Providing 4 online total Hydrocarbons (THC) GC analyzer in particles screeners (1/Z22503 A/B) with new sampling taping and sample condition sys. 2GC to be installed in 1PE & 2GC to be installed in 2PE.
- ✓ A new IR online analyzer to be installed in field for hydrogen unit of analysis CO and CO₂ as per SABIC standard.
- ✓ Demolishing of existing GCs AT-2201, AT-2203 with its sampling system in PE1 and demolish 2AT-2503 with its sampling system. FOXBRO panel in PE-2(Obsolete and not working). In addition to upgrade the existing GC AT-2202 and sampling system to analyze Acetylene, Methanol, CO, CO₂.
- ✓ GC AT-2202 shall be upgraded to measure additional components of demolished AT-2201 (Acetylene) & AT-2203 (Methanol)
- ✓ Adequacy check of TRVs, PSVs, PVRVs
- ✓ Risks and potentials in water treatment and advanced technologies used in water treatment and reuse, Designing of processes concerned in different types of water and waste water treatment plants involving different technologies



PAGE 7

COMPANY
INDIAN OILTANKING
INFRASTRUCTURE AND
ENERGY **Oil tanking**
LOCATION
MUMBAI, INDIA
ROLE
ASSISTANT MANAGER

For IOT, it is an ideal combination to have Indian Oil Corporation Ltd (IOC), India's largest Oil company and Oil tanking (OT), the world's second largest terminalling company as its promoters. Our work along with the active support of these two very strong and supportive organizations has not only helped us to become India's leading terminalling company today, with 16 terminals and 2 million KL capacity, but also paved the way for us to diversify into EPC services, Upstream services and Renewable Energy as well as different geographies.

Projects associated with:
M/s PT OT Tank Storage Terminal at Karimun, Indonesia - Jan 2013 to Nov 2013 (REV 1) M/s PT OT Tank Storage Terminal at Karimun, Indonesia - Jan 2014 to July 2014 (REV 2) M/s PT OT Tank Storage Terminal at Karimun, Indonesia - Aug 2014 to DEC 2014 (REV 3) M/s KPC's Nairobi-Mombasa Pipeline Project – Bidding Project
M/s Exterran Soccar Aurora Limited
M/s PT OT Tank Storage Terminal at Karimun, Indonesia - JAN 2016 to JUNE 2016 (REV A) AUG 2016 to NOV 2016

COMPANY
Furnace Fabrica (India) Ltd. (FFIL)



LOCATION
MUMBAI, INDIA
ROLE
PROCESS ENGINEER

FFIL is an internationally operating India-based provider of EPC services - with a particularly strong track record in delivery of Sulphuric Acid Plants and Ore Processing Roasters on a LSTK basis. Furnace Fabrica is a 35-year-old

PROFESSIONAL EXPERIENCE

Senior Process Engineer
IOTL | MUMBAI, INDIA | JAN 2013 – DECEMBER 2016

Handled Responsibilities: Checking and Approving

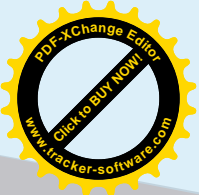
- ✓ Concepts for new 1500km long Jetty pipeline
- ✓ Concepts for new and existing (modification) oil storage tanks
- ✓ Conceptualizing requirement of new storage tanks
- ✓ Technical Document – Process Design Basis, Process System Description involving understanding of full loading and unloading operations from Jetty to Terminal and Vice versa.
- ✓ Process and Utility P&IDs and PFDs according to Plot Plan layout.
- ✓ Hydraulic Calculations using PIPENET Software by Sunrise Systems Limited, UK.
- ✓ Data Sheets (Tanks, Pumps, Air Compressor, Drums, Sumps, Jet Mixer)
- ✓ Surge Study and Analysis of the Petroleum Product loading PIPENET Vision 1.6 Surge Analysis Software by Sunrise Systems Limited, UK, and report generation of Surge Study and Analysis.
- ✓ Basic engineering documents (equipment list, line list, hazardous source list, HAZOP close out report, hydraulic report), Process Datasheets for Storage Tanks, Pumps, Air Compressor, Drums, Sumps, Jet Mixer, Oily Water Separator Datasheet
- ✓ OWS PFDs and P&IDs and Networking, OWS Calculation for effluent collection to separator and after recovery of Oils from wastewater discharges of Wastewater to the Sea, OWS Line Sizing and Pump Calculations, OWS Hazop and Hazard Classifications.
- ✓ Final As-built document submissions like P&IDs, PFDs, UFDs, OWS Schemes and Calculations, PVRV and PRV Calculations, Process Datasheets, Pump Calculations, Utility Calculations. The job also includes other process deliverables like Simulation report, Line list, Tie-in Lists, Process data sheet for Instruments, Various Process summaries and Hazop close-out, Equipment List, etc.
- ✓ Attended project alignment meeting in Singapore for Final Client Review.
- ✓ Operation Philosophy and Manual Preparation which included valve opening/closing scheme, Storage Tank receiving/transfer scheme, Jetty operation and maintenance scheme, vendor package operation manual, OWS separation scheme, Waste Collection and dumping schemes etc. Cause and effect, Lessons learnt report

Process Engineer
Furnace Fabrica (India) Ltd. (FFIL) | MUMBAI, INDIA | JAN 2012 – DECEMBER 2012

Project: 700TPD Sulphuric Acid Plant with Electricity Generation (Detailed Engineering) Client: Industries Chimiques Du Fluor, Tunisia
Licensor: **Outotec, Germany**

700 TPD sulphuric acid plant with 3 MW power generation using waste heat recovery system. Process comprises of double catalysis process with intermediate absorption (DCDA) sections. Sulphur furnace hot gases cooled through boiler system to generate steam for STG unit.

- ✓ Entire 700 TPD Sulphuric Acid Plant (SAP) Material Balance.
- ✓ Heat Exchanger Calculations.
- ✓ Steam Turbine Calculations (Energy Consumption and Power Generation Calculations).
- ✓ Equipment List and Electrical Consumer List



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COMPANY
SHROFF AND ASSOCIATES



LOCATION

MUMBAI, INDIA

ROLE

PROCESS ENGINEER

The company has always looked upon their customer needs and satisfaction very precisely and has taught us the same. Due to this quality policy of them the company has won several awards as the best consulting company nationwide.

Projects associated with:

M/s Akry Organics Pvt Ltd and Effluent Treatment Plant

M/s Sanmar Specialty Chemicals

M/s Dorf Ketel Specialty Chemicals Pvt Ltd. (Worked as Lead Engineer)

PROFESSIONAL EXPERIENCE

Process Engineer

SHROFF AND ASSOCIATES | MUMBAI, INDIA | NOV 2008 – DEC 2011

Handled Responsibilities:

- ✓ Scrubber Design (By Ludwig)
- ✓ Distillation Column Design by McCabe Thiele Method
- ✓ Heat Exchanger Design (7 nos) with optimization in Chemical 5.2
- ✓ Reactor Design (2 Crore Reactor)
- ✓ Agitator Design (Power Calculations)
- ✓ Project Work - Technical Comparisons/Commercial
- ✓ Nitrogen Consumption Calculations
- ✓ Utility Calculations

Trainee Engineer

ATUL CHEMICALS | VALSAD, INDIA | JAN 2007 – OCTOBER 2008

Handled Responsibilities:

- ✓ Improvement projects of New BLR Division.
- ✓ Exercising the Consumptions of ECH and BPA.
- ✓ Improving on the filtration rates at Sparkler Filters and batch time cycles.
- ✓ Designing of the Static Mixer Type Packed Bed Column to improve contact times of caustic addition in the premix mass containing epichlorohydrin.
- ✓ Agitator Speed increase in R-103 Epoxy II for efficient mixing process and reducing ECH consumption.
- ✓ FFE Distributor Plate Design and fabrication of cone in Separator at FFE to decrease PGE/CGE Carryover.
- ✓ BPA Risk Analysis for charging 30 TPD
- ✓ Deliverable - Capacity de-bottleneck. Yield improvement.
- ✓ Status - Trials did not show improvement. However, the observations made during trial lead to identify exact bottleneck. The improvement scheme was implemented at plant scale. Potential savings 34.6 Rs lacs/yr at 250 TPA capacity

COMPANY

ATUL CHEMICAL LIMITED
LALBHAI GROUP OF CO'S



LOCATION

VALSAD, INDIA

ROLE

TRAINEE ENGINEER

Projects associated with :

Technical Services – Trouble Shooting
Ethylene Glycol Plant – Polymer
Division