ABHINIT KUSHWAHA

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**EDUCATION**

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| B. TECH (Chemical Engg.) | 2018-2022 | Madan Mohan Malaviya University of Technology, Gorakhpur | 81.5% (8.25 GPA) |
| AISSCE (Class XII) | 2017 | Nav Jeevan Mission School, Kasia | 84.6% |
| AISSE (Class X) | 2016 | Nav Jeevan Mission School, Kasia | 85.5% (9.0 GPA) |

**WORK EXPERIENCE**

# LARSEN & TOUBRO ENERGY HYDROCARBON ENGINEERING (LTEHE)

**Designation: - Senior Engineer** Oct 2023— Present

Currently in Process Engineering Department of L&T Hydrocarbon Engineering Limited

# Ongoing Project: Naphtha cracker expansion Phase-II at Panipat refinery petrochemical complex, IOCL for High Density Polyethylene, Polypropylene (Proposal Engineering)

* **Consistency & Calculations** checks of the Shell & Tube Heat exchanger process datasheets like Heat duty, Flowrate, Temperature, DPDT as per BEDB, raising TQs to the clients & updating of datasheets based on the TQs responses from the client.
* Preparation & issuance **fresh process datasheet** of Steam Condenser based on the clause available in the Basic engineering design Basis (BEDB) for downstream engineering discipline.
* **Thermal rating** of Shell and Tube Heat Exchanger on **HTRI software** and checking effects of various parameters like Flowrates, temperature, Tube Thickness that how efficiently and effectively the heat exchanger performs its primary function: transferring heat.
* Vendors, including **M/s. Kantilal Chunilal & Sons** (for 115 kW Gas Heater), **M/s. Alleima India Pvt. Ltd (KANTHAL)** (for 115 kW Gas Heater), **M/s. Nikkiso Pumps** (for API 685 Sealless Pumps), **Alfa Laval & Tranter Inc.** (for Plate & Frame Heat Exchangers), and **Paglierani** (for Bagging & Palletizing Package), reviewed their respective offers, raising technical queries regarding specifications like flow rate, density, viscosity, MDMT, design parameters, nozzle sizes, heat capacity, materials, and operational requirements, while seeking confirmation on utility consumption guarantees and identical bagging machines, standby machines, operating hours, bag type, loading bay size and inclusion of all specified requirements.

# Project: Project: New NHT/CCR-reforming unit for processing heavy naphtha at the Arzew refinery, Algeria (Proposal Engineering)

# Consistency checks of P&IDs, PFDs, MSDs documents with each other and raised TQs to client in case of discrepancies.

# Updating of Regenerator section P&IDs based on the Isolation, Drain & Vent philosophies for downstream engineering discipline.

# Vendor offers review of various offers for Heat Exchangers, Air coolers, Filters, Pumps.

# Meeting with the vendors and downstream engineering discipline, clients about the various aspects like MOCs, dimensions & capacity etc.

# Project: AR-Ratawi Gas Midstream Project (AGMB), Iraq (Proposal Engineering)

* **Consistency & Calculations** checks of the Air Fin Coolers process datasheets like Heat duty, Flowrate, Temperature, DPDT as per BEDB, raising TQs to the clients & updating of datasheets based on the TQs responses from the client for downstream engineering discipline.
* **Consistency** checks of filters process datasheets and raising TQs to the clients and updating datasheets based on the TQs responses from client.
* **P&IDs** consistency checking and updating as per Isolation, Drain & Vent Philosophies.
* Hydraulic calculations and line sizing.
* Checking about the service applicability like sour, toxic or lethal services in equipment’s and their specified MOCs, Corrosion allowances or cladding requirements.
* Vendors offer review of filters and air fin coolers and raising TQs to the vendor as per the given offer.

# Project: 2.9 MMTPA Petrochemical Fluidized Catalytic Cracking Unit (PFCCU) & PRU, HRRL (Detailed Engineering)

* Preparation of the operating manual of complete PFCCU unit which includes Introduction, Basis of design, Feed and Product characteristics, Process description, Operating philosophies, Plant chemicals etc.
* Review and comments on the process graphics of PFCCU unit received from YIL.
* Line list updating based on latest P&IDs revision with change list and comment resolution sheets.
* As Built documents preparation for all the PFCCU process datasheets, Instrument Datasheet as well as P&IDs for final Submission to EIL.

# Project: LCH SAN VI Project (SABIC Horizon 1 Project) (Proposal Engineering)

# Consistency checks of P&IDs, PFDs, MSDs documents for with each other Urea Granulation Section and raised TQs to client in case of discrepancies.

# Hydraulic calculations of Pumps and Line Sizing.

# Consistency checks of Process Datasheets of Vessels, Columns and updating if there is requirement based on BEDB & TQs replies.

# Preparation of Process Datasheet of PSVs after analysis of applicable relieving scenarios, Identification of governing scenarios as per API Guidelines like API 520,521 & 526.

**Designation:** - **Graduate Engineer Trainee (GET)** Oct 2022- Oct 2023

* As part of proposal engineering for AGMB Project. Self is responsible for the preparation of equipment list.
* Analyzed and updated P&ID/PFD as per the philosphies for AGMB Project.

**ACADEMIC PROJECTS**

* Line sizing for single & two phases.
* Thermal performance analysis of closed wet cooling towers under both unsaturated and supersaturated conditions.

**ACADEMIC ACHIEVEMENTS AND AWARDS**

* AIR-1276 (2022)
* AIR-1356 (2025)

**OTHER INFORMATION**

* Skills: MS Excel, MS Word, Project Management, Problem Solving, Communication, Leadership, Teamwork.
* Software: HTRI, HCal & Aspen Hysys.
* Certificates: Aspen Hysys by NPTEL.
* Languages: English, Hindi.
* Interests: Cooking, Volunteering, Playing Cricket, Singing.