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CURRICULUM VITAE - NISHANT DASH

Profile Summary. An accomplished *Chemical Engineer, Certified Energy Auditor* and *Internal Auditor* with 10 years of field and plant experience, currently engaged in *risk auditing* as well as *advisory services* to sectors such as *oil and gas* and *manufacturing* clients in Bahrain.

1. Qualifications.

- a) **Educational** – *B. Tech in Chemical Engineering* from Laxminarayan Institute of Technology (LIT), Nagpur in 1st Division -July 2011.
- b) **Professional**
 - i) *Certified Energy Auditor* – From Bureau of Energy Efficiency, Government of India- September 2017.
 - ii) *Certified Internal Auditor- Level 1* from Institute of Internal Auditors, USA - Jan 2021 and currently pursuing level 2.
- c) **Software Skills** – Aspen Plus, Pro Steam, Pinch Super Target and HTRI

2. Work Experience. **09 years and 11 months** as under-

- a) **July 2011 - June 2018** - Employed with **Reliance Industries Limited (RIL)** at Jamnagar, Gujarat and their Corporate Office at Navi Mumbai.
- b) **July 2018 – Till Date** – Employed with **BDO, Bahrain** at Bahrain.

3. Work Details.

- a) **As Graduate Engineer Trainee with RIL (July 2011 to Jun 2012).**
 - (i) Learnt about aromatics complex with the aid of PFDs, P&IDs, General Arrangement Drawings and Isometrics at Reliance Refinery, the biggest grass-root refinery of the world at **Jamnagar, Gujarat**.

b) As Manager (July 2012 to Nov 2017 at RIL, Jamnagar) performed the following roles -

(i) Operations Engineer (July 2012 to June 2013).

I supervised field activities like *changeover of process equipments and their start-up/shutdown, handling of Engineering Change request jobs related to hot tapping in flare header as well as firewater header replacement activity of storage tanks in Aromatics complex.*

(ii) Technical Services Engineer (June 2013 to August 2014)

I was responsible for *analysing deviations in energy parameters of all process and utility plants, conducting internal energy audits and bench marking processes of all fuel and non-fuel units. I analysed and recommended cleaning of Coker heater burners to site management resulting increase in heater run length. I was Involved in commissioning of new air pre-heaters of Crude unit furnaces and shutdown processes of Crude and Aromatics plants.*

(iii) Technologist Energy Management (September 2014 to November 2017, at Energy Cell, Technology Centre of Excellence, Reliance Corporate Park, Navi Mumbai,).

I was responsible for energy conservation activities including energy audit of furnaces and chillers at Jamnagar Refinery and its ancillaries like Crude, Aromatics and Coker units as well as troubleshooting of process burners and Audit of dowerm vaporizers at Polyester site.

c) As Senior Manager (Senior Technologist, Simulation and Modelling) (Dec 2017 to June 2018 at Technology Centre of Excellence, Reliance Corporate Park, Navi Mumbai)

I was involved in *developing Steady State Simulation models to troubleshoot real plant problems like low reflux rate, tray flooding and heat exchanger fouling.*

d) Current Assignment as Senior Consultant - Advisory Services (Oil & Gas Auditor) (June 2018 till date with BDO, Bahrain at Bahrain)

(i) *Auditing various departments of oil and gas clients like operations, maintenance, health, safety, engineering, technical services, assessing existing process risks, adopted control measures and recommending additional control measures for process optimization and effectiveness.*

(ii) *Reviewing process improvement opportunities on techno-economic basis* for manufacturing clients engaged in dredging, sand processing and aluminium extrusion in to aid the process owners in gap analysis and implement subsequent remediation of observed defects.

(iii) Actively involved in review process of **Sohar Aluminium Power Plant, Oman** with respect to *assessment of existing process and maintenance risks* through risk-based procedures, analysing control measures and providing *value-based recommendations* for plant improvement.

4. Core Competencies

- Rich experience in *audit of fired heaters* across refinery.
- Rich experience in *development of MIS* for tracking of key energy metrics for process units.
- Rich experience in identifying and implementing *energy conservation measures* across process units of refinery.
- Experienced in *process unit operations, inventory management procedures, commissioning of process equipments* and shutdown process of aromatics/ crude units.
- Acquainted with *API standards* for fired equipments.
- Skilled in *tracking energy deviations* related to fuel, power and steam systems
- Conversant with energy specific softwares like *Aspen Plus, Prosteam, Pinch Supertarget* etc.
- Rich Experience in *risk advisory and consulting* for oil and gas organizations and manufacturing plants.
- Acquainted with *OHSAS 18001 and ISO 45001* safety management standards.
- Acquainted with *global environmental rules and regulations for oil and gas industry*.
- Adept in implementation of *process safety management (PSM)* elements in oil and gas sector.
- Skilled in execution of *safety audits* for process units with respect to workplace safety.

5. Strengths

- Self-motivated, logical approach with analytical bend of mind.
- Ability to handle work pressure and be a useful team player.
- Optimising production by analysing and improving processes using knowledge of Chemical engineering.

My References

Available upon request.