**JIGNESH S. SHAH**

**Chemical Engineer**

Mob: +965 98045378 / +91 9726868078 E-mail: shah.jignesh1990@gmail.com

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**Profile:**

Innovative Chemical Engineer with a passion for process improvement. Experienced in developing and implementing new processes and technologies for maximum efficiency.

**Employment History:**

**Process Engineer (Hydrogen Project)**

**Kuwait National Petroleum Company, Kuwait** **Mar 2019 to Present**

* + Hydrogen Production Unit (Licensed by M/S Haldor Topsoe with a capacity of 3\*443TPD of H₂)
	+ Hydrogen Feed Treatment Unit (Design capacity of 255MMSCFD)
	+ Hydrogen Compression Unit (Design capacity of 731MMSCFD)
	+ Hydrogen Recovery Unit (Design capacity of 199 TPD of H₂)
	+ Off gas and LPG treatment unit (Design capacity of 42MMSCFD and 13KBPSD)
	+ Conduct technical studies and analyses to troubleshoot process issues and propose solutions for PFD, P&ID.
	+ During project phase active member for reviewing design documents from engineering contractor and prepare commissioning and pre-commissioning activities.
	+ Catalyst loading and reduction, refractory dry-out, alkali boil out, column internals installation and inspection, pump/compressor proving, DCS/ESD/PLC logic checks.
	+ Plant start-up & stabilization activities, process controlling, monitoring and trouble-shootings.
	+ Participation in plant start-up PSSR, safety walk downs, regular safety audits etc.
	+ Preparing weekly/daily report, SOPs, manuals, mock drill documents etc.

**Process Engineer, Reliance Industries Limited, India** **Nov 2014 to Feb 2019**

* + Worked in the C2 complex plant under the J-3 project, which was a new petrochemical complex expansion.
	+ Involved in plant PFD and P&ID review, commissioning of Distributed Control System (DCS) logic and emergency shutdown system (ESD), and alarm rationalization.
	+ Played a key role in making standard operating procedures for start-up and shut down of the Ethylene Refrigeration Compressor (ERC) and Propylene Refrigeration Compressor (PRC), and I reviewed and checked the HMI compressor logic.
	+ Knowledge of pre-commissioning checks, commissioning assistance, and troubleshooting.
	+ Engaged in pre-commissioning and commissioning activities at the Low Density Poly Ethylene (LDPE) plant and gained knowledge of pre-commissioning and commissioning activities such as hydro test, various flushing procedures, and P&ID loop file.
	+ As an active member during the mega shutdown of the Fluidized Catalytic Cracking (FCC) Unit and gained valuable experience in maintenance and repair activities.

**Process Engineer, Paramount Limited, India** **Jun 2012 to Feb 2013**

* + Prepared various documents such as Equipment data sheets, Process data sheets, Unit sizing calculations, PFD, P&ID, and Plant layout based on client specifications and tender documents.
	+ At Wastewater Treatment Plant at Mangalore Refinery and Petrochemicals Limited (MRPL) gained knowledge of PFD, P&ID, Equipment data sheets, Process data sheets, Pump calculations, Layout, and GAD. Also, I experienced in commissioning activities on the project.

**Education:**

* + **M.Tech. in Chemical Engineering Dharmsinh Desai University, India**

June 2013 – May 2015

* + **Bachelor of Chemical Engineering Dharmsinh Desai University, India**

June 2008 – May 2012

**Skills:**

* Oil and Gas Project
* Plant Start-up & Stabilization
* Commissioning & Pre-Commissioning
* Process Engineering/Operations & Maintenance
* OTS/DCS/PLC/MAT/FAT/SAT
* Software Skills: Microsoft Office Suite, Aspen Hysis, HTRI, Design Expert, and Matlab

**Linkedin:**

<https://www.linkedin.com/in/jigne5h/>