***POST APPLIED FOR CHEMICAL ENGINEERING***

**SAHAYA NISHANTH.M Email**: sahayanishanthpetro@gmail.com

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***SAFETY TRAINING COURSES***

* OPITO approved **BOSIET** Certification
* **STCW** Certification
* **H2S** Certification
* Permit to Work System & Supervising Safety
* Health Safety and Environment Policy
* Personal Safety and Social Responsibilities
* Elementary First Aid
* Fire Fighting & Fire Prevention
* Helicopter Under Water Escape Training

***ACADEMIC CREDENTIALS***

* B.Tech in Chemical Engineering
* Diploma in Petrochemical Engineering
* NEBOSH IGC
* IOSH- Managing Safely

***SUMMARY OF KNOWLEDGE IN OIL AND GAS***

**OIL PROCESSING UTILITIES**

Well Head operation Produce water treatment

Manifold operation Cooling Water

Pig Launcher/Receiver Instrument Air

Separator Nitrogen Package

Gas boot operation Hot Oil System

Tank Farm Flare Systems

Metering Skid Drain Systems

Export pumps

***DETAILED KNOWLEDGE***

* ***Control Room Operations & Responsibilities:***

DCS System : ABB, Yokogowa (Windows based operation ESD / F&G System

Start up, shut down and black start of production & process facility. Monitoring and controlling process parameters and maintaining all the process permissive parameters for continuous plant operation. Handing over the equipments for maintenance by overriding trip logic under instruction of supervisor. Expertise with trend analyzing, Alarm & Trip setting and Process related drawings. Logging the status of facilities and ensuring that production and process are in optimum level. Process evaluation to maximize the volume and quality of oil and optimize the rate and quality of gas metered to downstream facilities. Review and acknowledge work permit according to the risk assessment to the concerned task. Preparing daily, weekly and monthly production report. Coordinating and guiding well head operator for start up of wells, PIG launching activities. Reading the status of wells using SCADA system. Operating and monitoring the heat medium boilers, potable water treatment plant, and produced water treatment package and water injection system using serial link communication. Operating and controlling of export custody metering and LACT proving using flow computer. Operation of multi-phase flow meter for individual well testing. Operating and controlling the pilot water injection system

* ***Offshore Production***

Well head & production platforms, well completion, well actuation, well unloading choke & kill Manifold, Start-up and Shutdown procedure, control room operations, Emergency procedure, water injections, Gas Compression; oil Shipment, chemical injection, etc. Worked in Bombay High offshore.

* ***Well Head Operations:***

Well Testing, Inspection & Operation of Christmas tree. Flow Line Flushing Job, SSV, SSSV & storm Choke Operations. Flow line Choke changing, STHP, FTHP, Well Equalizing Well Actuation, Well Maintenance, work over, well Completion, circulation value operation, Expansion Joint Operation, Tubing Hanger Seal Leaking, Back Pressure Value Operation, Gas Lifting, Water Injection, Chemical Injection, PIG Launching & receiving, inspection of pipelines for leakage & puncture. Well Annulus Pressure Bleeding, safety value testing, lower and upper Master value, wing value, Arm Value, Adjustable choke & crown value operation. Well opening, closing operation & Trouble Shooting etc…

* ***Crude Stabilization Unit:***

DCS (Distributed Control System), SCADA (Supervisory Control and Data Acquisition) Operation. Handling 3 Phase Separators, Oil reading & orifice changing, Differential pressure reading. HP, MP & LP Separators handling, degassing vessels & skim tank handling, well fluid oil, gas and water Level, Pressure maintenance in Control Panel operation LCV PCV operation & controller operation. Oil sample taking BS&W checking Demulsifier & Biocides Injection Pump operation etc...

* ***Oil and Gas Gathering Station****:*

Operation & control of wells through different headers for optimum production, oil manifolds, Gas manifolds, Gas lift manifolds, Surge Tanks, Separators (2&3 Phase), Dehydration Tanks, Water Disposal pumps, crude transfer pumps, chemical injection, gas/oil line pigging operations, well testing etc. Gas compressors Inter-Stage Scrubber gas treatment glycol contactors, glycol regeneration unit, Gas exports, Routine sampling of oil, gas, glycol and condensate. Isolation & De-isolation of equipments vessels & tanks for maintenance. Familiar with work permit system. Gas testing, mechanical & electrical isolation procedures and co-ordination with maintenance crew, trouble shooting, reporting etc…

* ***Crude Oil storage tank and export Pump operation****:*

Familiar in oil & gas processing system main tank, intermediate tank operation, change over, move operation, water disposal, Tank Evacuation, isolation, Bottom Oil Transport, Bottom oil receiving, Tank Pump, Booster Pump, Main pump operation, lube oil pressure maintenance etc.

Centrifugal & Reciprocating pump open: lion. Start-up & shut down operation. Lube pumps operation, oil level maintenance, vibration check. Maintenance seal check, Cavitation, Suction & Discharge pressure checkup, pulsation chamber, Strainer operation coupling. Shaft vibration & Heat checkup, speed setting chemical dose pump operation, submersible pump operation, trouble shooting, etc.

* ***Boiler Operation****:*

Good knowledge in start and stop the boiler with thermal 55 oil. All the lineup of exchanger’s shell and tube side. Good knowledge of maintain the incoming crude oil temperature by using temperature control valve set point.

* ***Compressor Unit****:*

Handled different types of compressor (reciprocation, centrifugal & screw type) compressor start-up & shut down, cylindrical lube oil maintenance, compressor unit pre-lube oil level, engine crankcase oil level maintenance, coolant water level rpm setting, inter collar operation, temperature maintenance, scrubber pump operation fuel filter separator operation & isolation, recycle, PCV operation. Temperature logging suction, discharge valve leaking, engine cylinder function, cylinder fire order, fuel gas splurging, cooled water supply SDV & BDV operation, trouble shooting, etc.

* ***Water Injection****:*

PW Tank farm operation, IGF, NSF, clarifier, Lube oil pump, Booster pump, Main injection pump operation. Lube oil pressure Maintain cooling water pump operation. Lube oil level maintain. Main break operation, Chemical Injection, Water sample, MOV operation, Vibration check, Speed Trouble shooting, etc. Inject high pressure Dehydrated gas into well reservoir, operation & maintenance of multistage compressors, Scrubber, intercoolers, After coolers, Separator Start up & Shut down operations of Compress at Gas Injection unit.

* ***Waste Water Treatment****:*

Receiving sup levels maintain. Surge bound change over, Equalizing Tank operation, TP1 &. DAP Tank operation, Agitation tank operation, Final Clarification Disposal sump, all pump operation, etc.

* Chemical injection unit:

Crude Oil injection & Treatment Chemicals such as pour point Depress and, Demulsifier, reverse demulsifier, corrosion inhibitor, biocide, Oxygen Scavenger, Scale inhibitor, Gas treatment chemical like Glycol.

* Pigging operation

Well knowledge in launch and receive the pig and follow-up the lineup procedure. Depressurize / drain / purging with water and N2. Good knowledge of Foam pig / Cup type pig / wire brush pig / flexible pig and Intelligent Pig operation.

* Utility:

Good knowledge in utility operations such as Gas turbine Generator, utility & Instrument Air Compressor, Centrifugal pump, Piston pump, Water treatment plant, Fire water pump, Produced water Treatment plant. Raw water Treatment, Sewage water and effluent treatment, Cooling Tower, Chemical Injection, etc.

* Safety Devices:

H2S Safety, Fire safety, Fire Extinguisher (Foam, DCP & CO2 ;) using in fire classification, fusible plug operation, deluge valve operation, fire-water pump operation, Breathing Apparatus, Safety Jacket, Gas detector, Smoke detector, heat detector operation, H2S deduction, fixed monitoring system, electronic monitors, tube detector.

***PERSONAL DETAILS***

Name : SAHAYA NISHANTH

Date of Birth : 12/07/2000

Nationality : Indian

Marital Status : Single

Languages Known : English, Tamil & Hindi

***PASSPORT DETAILS***

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