

#### RANJETH

#### Mobile: + 91 7339591798

 **Email:** **ranjeth2108@gmail.com**

**PRODUCTION OPERATOR**

**FIELD EXPERIENCE : 6 Years in Oil & Gas Fields**

**TECHNICAL QUALIFICATION : DIPLOMA IN MECHANICAL ENGINEERING**

**PROFESSIONAL TRAINING :** Sea Survival course

Fire Fighting First Aid

Safety & Social Responsibility **COMPUTER KNOWLEDGE :** MS- Windows, MS Word & MS Excel **LANGUAGES KNOWN :** English, Hindi, Tamil & Malayalam

**PROFESSIONAL SUMMARY**

|  |  |  |  |
| --- | --- | --- | --- |
| **COMPANY** | **POSITION** | **DURATION** | **LOCATION** |
| HALL (Offshore), ONGC Mumbai | Field Operator | Jun 2015 to July 2016 | INDIA |
| RELIANCE ENGINEERING(Offshore) Mumbai | Production Operator | Sep 2016 to Aug 2017 | INDIA |
| PISERVE INFRASTRUCTURE Pvt ,Ltd. CAIRN ( VEDANTA) | Production Operator | Oct 2017 to Nov 2019 | INDIA |
| SPECTORM ENGINEERS, MPT - Rajasthan | Production Operator | Dec 2019 to Till date | INDIA |

### SUMMARY OF EXPERIENCE

* Oil and Gas Gathering Stations
* Offshore Production
* Well Head Operation and Maintenance
* Gas Sweetening Unit
* Central Production Facility and Tank Farm
* Gas Injection Unit
* Water Treatment and Injection
* Oil and Gas Processing
* Commissioning Activities
* Handling of Equipment’s
* Experience in Valves
* Utilities
* Safety Systems

### JOB DESCRIPTION

#### OIL AND GAS GATHERING STATIONS

Operation and control of wells through different headers for optimum production Oil Manifolds, Gas lift manifolds, Surge tanks, Separators ( Two / Three Phase), Dehydration Tanks, Water disposal pumps, Crude transfer pumps, Chemical injection, Gas/Oil line pigging operations, Well testing, Computerized well testing etc.,

Gas compressors, Inter-stage scrubbers, Gas Treatment, Glycol Contactors, Glycol regeneration unit, Gas export, Routine sampling of oil, Gas Glycol and Condensate, Isolations and De-isolations of Equipment’s, Vessels and Tank for Maintenance, Familiar with work permits systems, Gas testing, Mechanical and Electrical Isolation Procedures and Co-ordination with maintenance crew, Trouble shooting and Reporting.

#### OFFSHORE PRODUCTION

Well experienced in offshore production in Installations and rigs. Well Testing, Well completion, Well Actuation, Choke and kill manifold, Start – Up and Shutdown procedures, Control room operations, Emergency Procedures, Water Injections, Gas Compression, Oil Shipment, Chemical Injection etc.,

#### WELL HEAD OPERATION AND MAINTENANCE

**Well Testing:**

Lineup of well through test separator to production header, setting of LIC, PIC, Chart plotter etc., monitoring of pressure, DP, flow (tantalizer/WCM) and sample, trouble outing/calibration of pneumatic controllers and equipment’s, changing of orifice plate in senior orifice, changing of choke in flow arm, adjustment of lift gas flow to individual wells.

#### Well head Operations:

Monitoring of wells, well performance, well/fire SDP and shutdown system, instrument gas, firewater, drains, vents, functional checking of SSSV, SSV, control panel, preventive maintenance and trouble shooting, manifold valve operations, different well activation methods, operation of X mass tree valves, controlling the well flow with choke as per production requirement, gas lifting operation, well testing placing new or re-completed wells on production, assisting during drilling and post drilling operations such as well flow back, supervising the satellite platform while conducting hot work. Calibration of the chemical injection pumps.

#### Operation knowledge on well head platform:

Inspection and operation of Christmas tree, flow line choke changing well actuating, well equalizing, checking STHP, FTHP readings, well head panel operation, annulus pressure bleeding, surface safety valve (SSV), sub surface safety valve (SSSV) operation, Test separator handling, well testing oil/gas/water. Taking samples for check specific gravity and BS & W. Checking of water injection and gas injection wells. Gas dehydration unit (GDU): This unit is designed to dehydrate 9.1 MMSCFD of associated gas. Tri-ethylene Glycol (TEG) is used as the dehydration medium. Heating Medium- STEAM and DCS- EMERSON (Delta-V).

#### GAS SWEETENING UNIT (GSU):

This unit is designed to sweetening 2.5 MMSCFD of associated gas. Methyl Di-Ethanol Amine (MDEA) is used as the sweetening medium. Heating Medium – THYRISTAR (Electric heater).

#### Process Platform:

Field operation activities of 3 phase separators, chemical dosing, booster compressors, main oil line pumps, hot oil pumps, produced water conditioner, sump and skimmer, skimmer pumps, GT driven export gas compressors, GDU, Glycol regeneration unit, Water Processing for injection - SWLP, electro chlorinator, coarse and fine filters, DOT, booster pumps, chemical dosing, main injection pumps, Utility air and Instrument Air system, Pot water, Firewater and Fuel gas system.

#### CENTRAL PRODUCTION FACILITY AND TANK FARM

Receiving crude from different Gathering Stations, Gas Boot and Free water Knockout Drum, Skimmer Tank – Storage Tank Operation - Emulsion Treatment by Electrostatic Heater – Treater, Injection Rate calculations, Desalting Crude through Electric Desalters, Crude Transfer pumps, LACT (Least Automotive Custody Transfer) unit, Water Injection pumps, LACT Meter Proving, Shipping Pumps, Trouble Shooting as per Cause & Effect Logics.

Good knowledge in Operation of Gas Turbines for generator, Well Test Data Entry and DCS Operations, Plant Safety Equipment’s, Emergency Procedures etc., Conversant in Handling Crude stabilization Unit, Vacuum Compressors. Also I have successfully operated Central Production Facility Capacity of 70, 000 Bbls / Day.

#### GAS INJECTION UNIT

To inject High Pressure De-hydrated Gas to Oil Reservoir, Compressor Operation (Three Stage Reciprocating), Scrubber Operations, Adjustable Choke , Orifice Plate both the type at Daniel Senior and Daniel Junior , Choke Changing of the Gas Wells BOLT, MMA and PLUG.

#### WATER TREATMENT AND INJECTION

Pre-treatment of Sea water .Water Filtration (2 micron count less than 400) Deaeration etc., Filters (Dual and Multi) Deaerators, Chare Pumps & Transfer Pumps, Chemical Injection (Biocide Ferric Sulphate and Polyelectrolyte), Operations and Monitoring of Water Injection System, High Pressure Injection Pumps (SSP), Injection Well Head Operations and Water Sampling etc.

#### OIL AND GAS PROCESSING

Control room operation, separator, surge drum operations ,chemical injection , gas and water injection, hyphochlorine generations, glycol regeneration , sour gas purification, gas blanketing , cartridge and charcoal filter changing etc. Dehydration tanks, simple maintenance of gas compressors , free/ smoke detection systems and utility operation, like air dryers, nitrogen generation, sea water cooling, utility / pot water system etc**.**

#### COMMISSIONING ACTIVITIES

* Follow up of all flushing and hydro testing.
* Leak testing, Pressure testing.
* Doing PTP (Pre commissioning test Procedure)
* Clearing punch list.
* Maintain all documents related commissioning and Pre-commissioning activities.
* Doing maintenance / Preservation of equipment’s.
* Good Knowledge about P& ID, PFD, PPD’s, Red line markup.
* Good knowledge about Offshore permits to work system.
* Commissioning and startup equipment’s.
* Co-ordinate with vendor to start equipment’s.

#### HANDLING OF EQUIPMENTS

Feed gas KOD, Dryers, Filter, Chiller, High Pressure and Low Pressure Separator, Economizer flash vessel, Expander compressor, LEF condenser, LEF column, LEF Reboiler, LEF Reflux drum, LEF Reflux pump, Reciprocating compressor, R G cooler, NGL cooler, NGL spiking pump, Booster pump, Blow down pump, Combined feed heater, Reactor, Shell & tube type exchangers, Fin fan coolers, Centrifugal & Reciprocating pumps, Stripper, Scrubber, Hot oil expansion vessel, Detractor, Hot oil filter, Air compressor, Nitrogen PSA (Pressure Swing Absorber),Sphere, Bullet, Circulation pumps, all types of control valves.

#### EXPERIENCE IN VALVES

* Disassembly, Lapping & Reassembly, In-situ floating /Testing of Safety Valves.
* Overhauling, Refurbishing &Calibration of Control Valves.
* Overhauling & Servicing of Pneumatic and hydraulic Instruments for Reel wrapping.
* Cleaning & Testing of Globe Valves.
* Servicing & Testing of Shut off Valves.
* Hiring of Services for Testing/ Calibration of Breather Valves.

#### UTILITIES

Well Experienced In Utility Operations Such As Gas Turbines Generator, Utilities & Instrument Air Compressor, Centrifugal Pump, Piston Pumps, Water Treatment, Sewage Water and Effluent Treatment, Cooling Tower, Chemical Dozing- SHMP, HEDP,

Sulfuric Acid, CL2, etc.

#### SAFTEY SYSTEMS

Work permit system, Process safety systems, Fire and gas safety systems, Emergency Shutdown Systems, H2S and hydrocarbon sensors, Ultra Violet and Infra-Red flame sensors, Nitrogen purging, Fire water system and pumps, Fusible plug loop, Water deluge system, Isolations, De-isolations, Sea survival equipment’s, Lifeboats, and associated lifesaving equipment’s.

**JOB RESPONSIBILITIES**

* + Make regular routine checks of all equipment and unit to ensure they are functioning correctly in accordance with standard operating procedures.
	+ Report any abnormalities immediately to my production supervisor and take possible corrective action.
	+ Check and Record in the Plant Log Sheet each and every hour a variety of readings such as Oil and Gas Flow, Temperature and Pressure and Record unusual occurrences after reporting them to my production supervisor.
	+ As per work permit, isolate the system, inhibit nearby detectors, drain, vent, flush with water if needs, purge with Nitrogen, barricade the area and hand over to the work permit responsible technician.
	+ Start, Check and Stop Pumps locally according to instructions or in case of emergency.
	+ Assist in carrying out the Routine Weekly Run Tests of Equipment’s like Emergency Diesel Generator diesel and Electrical Fire Pumps. Etc.,
	+ Coordinate with the contractors and coworkers.
	+ Ensure a safe working environment and make a profitable output to the employer.
	+ Efficient start up, safe shut down and routine operation for a smooth running plant.
	+ Participate under instructions, In Launching Pigs into Pipelines, Prepare Pig Receiver Stations and remove the Pig and check it for damage under the guidance of the production supervisor.
	+ Unload Chemicals into Tanks for Injections, Start and adjust the Flow Rate of Chemical Injection Pumps as required.
* Check the Water / Oil interface level in Sump Tanks and operate their pumps locally when they required.
* Collect Oil, Gas, and Water Samples and measure the Water Cut in Oil, Salt Concentration in the Produced Water and pass the samples to the Laboratory for Analysis.
* Initiate and lead Fire Fighting or other emergency actions in my area until taken over by a higher authority.
* Testing of SSSV under the supervision of production supervisor.
* Checking the Leakage of Gas like Hydrogen sulphide and HC.
* Continuous maintaining preservation on Valves, nuts and bolts by denso tape and grease.
* Proper hand over in every shift and every rotation to my back to back.

## PERSONAL REFERENCE

#### Date of Birth : 08/07/1996 Father’s Name : A.Kanthakumar Nationality : Indian

**Languages Known : English, Hindi, Malayalam & Tamil Marital Status : Unmarried**

## PASSPORT DETAILS

**Passport No : R0093591**

**Valid Up to : 04-05-2027**

**Place of Issue : MADURAI**

**Signature Ranjeth**