**ARASU DHINASHMANI**

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**Experience** : Around 17 years of hands-on experience in Commissioning and Maintenance

Of Oil and Gas, Refinery, FPSO, Petrochemical and LNG projects

**Positions worked** : Mechanical Supervisor, Maintenance Coordinator , Maintenance Mechanical Engineer

**Jobs Handled** : Start up, Operations & Maintenance , Shutdowns of Green and Brown Field details as below

**Static Equipment:** All Types Of Heat Exchangers , Separators, Dryer, Filter, Drums, Fin fan coolers, Reformer. Distillation Tower, Heaters, Boilers, Vessels, Reactors, Worked in safety relief valves, flame arrester and pipeline Plant maintenance. All Types of valves over hauling & calibration And Repair and change the gland packing and plant FIELD Maintenance, Routine maintenance, preventive maintenance, Commissioning And Start-up Activities of Static &Rotating equipments.

**Static Equipment** opening and Repair as per Requirement of Inspection Group

* **Management OF Changes**, Line Modification, Hot service, Cold Service, Connecting, Disconnecting lines, New Spool and New line Fabrication,
* **PIPING** Flange, pipe, and fittings leak fixing Erection and fix proper location
* **Column** Maintenance for Bubbles Cap, Tray, and Demisters Replacement or Repair
* **Heat Exchanger** Pullout, Replacement, Hydro jetting Tube Plugging, and Rapture Tube Replacement, Hydro Testing
* **Reactor** for Catalys,Clay,Palls.Removing & Filling as per Requirement, **Tank** Prepare for Cleaning and Repair as Requirement
* **Entry** Preparation for All Confined Space Entry Equipment as Requirement . **Visual Inspection** before and after the job

**Scope of excellence covers:**

Hydro Cracker unit (HCU) Sulphur Recovery Unit, (SRU) Amine Regeneration Unit (ARU) Sour Gas Unit Lube expansion Block (LEB) Crude Distillation Unit( CDU) Polyethylene Unit (P-E) Ethylene (E-U) Vacuum Distillation Unit( VDU) Continuous Catalyst Recovery (CCR)  Polypropylene Plant

**JOB RESPONSIBILITIES**

* Obtain weekly work schedule from planning department.
* Review routine work request and pm look ahead issued by planning dept.
* Review and site verifies each job on schedule.
* Obtain and review CLIENT procedures.
* Review and check blinding locations as per blind  lists  from operations.
* Obtain lifting procedures, as job requires.
* Create job safety analysis / task risk analysis.
* Obtain work permits for individual job request
* Ensure work permits are signed in the field by both maintenance & operations.
* Discuss each scheduled job to foremen and craftsmen, prior to execution.
* Interface with other disciplines (i.e. fabrication, scaffold, insulation etc.).
* Acquire inspection recommendation if necessary.
* Check and make sure availability of outside services based upon planned work request.
* Obtain job package from planning department as necessary.
* Review each job packages; write comments and send back to planning.
* Attend emergency work request from operations call.
* Verify and check materials for each emergency work requests.
* Filled up actual   man-hours   and   closed   work   request   upon completion.
* Filled up preventive maintenance form for critical equipment after execution.
* Obtain defeat form from operations for planned critical equipments before execution.
* Send for calibration and follow to dresser rand pressure safety valves, Knowledge of SAP module.
* Conduct field safety audits and write recommendations based on observations for improvement.
* Work permit receiver and approvers as per CLIENT work permit system
* Fully familiar with the EH&S critical device requirements for defeat.
* **Manpower** Professional Manpower handling Distributing skilled for suitable job
* All Job Complete and Box up Tightening Properly **Housekeeping** part of our job before and after the Completing job.

**Detailed Work Experience**

**1 ) Company :** Greenville LNG ,Nigeria.

Project : Commissioning & Maintenance

Duration : 07-09-2018 to 12-12-2019

Job Title : Senior Mechanical Engineer Commissioning & Maintenance

* **Scope of excellence covers:**
* **Liquefied natural gas (LNG) Unit. Liquefied petroleum gas Unit.**

**KEY TASKS HANDLING Site Inspections & Security:**

Receiving : Work permits for blinding, De-blinding, hot works, cold works, open flame, PTW, etc.

Certificates for confined space entry and electrical isolation.

* Handling total flooding system and self-contained breathing apparatus and firefighting equipment.
* Leading other related duties pertaining to vessel inspection, vessel isolation and commissioning.
* Conducting authorized gas testing.
* **Man Management:**
* Managing a team of workmen and guiding them to address and resolve performance bottlenecks along with imparting in house training.
* Planning effective manpower deployment & works scheduling of qualified workforce; addressing training needs of staff to enhance skills and productivity.
* Supervising workmen on the Shop floor and ensuring the quality of products manufactured.

**Efficiently handled various equipment’s mentioned as under:**

**Compressor**(single stage & multi stage, reciprocating, rotary & centrifugal, steam turbine & motor driven).

**Pumps**(single stage & multistage, reciprocating, rotary & centrifugal.

* Handled **Steam Turbine** driven centrifugal pump, Worked in Pressure Swing Adsorption column (Hydrogen Gas Plant).
* Knowledge of side Fired Furnace and Top Fired Furnace, heaters, stripper and Filters.
* Handled all type of valves and equipments like Heat exchangers, Condensers, Re-boilers, Hydrocarbon liquid he
* Exposure in Fuel gas system, Lube Oil system, Methanol dosing and Flare system

**2) Company** : Qatar Petroleum Qatar (QP)

**Project** : Turnaround For Crude Distillation Unit Under Madina Group W.L.L

**Duration** : Aug 2017 To September 2018.

**Job title** : Mechanical Site Engineer Maintenance

* FIELD Maintenance, Routine maintenance, activities of in depth knowledge process piping line, fuel gas, water pipe line & Operation & Maintenance work of plant equipment like Piping fabrication, & erection, pressure Vessel, Column, Heat-Exchanger, Pump alignment, compressor ,turbine ,Reactors, Valve, Boiler, Fin-Fan, Furnace, Hydro-Jetting, Chemical Cleaning etc. maintenance work of equipment process plant .Maintenance work and overhauling of pump ,compressor ,fin – fan & gear box Handled. Responsible for leading a team of 40 mechanical technicians for maintenance and repairs of Static & Rotating equipment, mechanic work shop and erection of technological pipes.
* Attended training courses related: Golden Rules of Safety, Permit to work, confined space entry, energy isolation, communication, lifting operation, working at heights, management of change, driving safety. Authorized as performing authority.

**3) Company** : Q-chem. Qatar Petrochemical Qatar

**Project** : Turnaround For **Polyethylene Unit**  Under APLUSVELOSI

**Duration** : Jan 2016 To May 2017

**Job title** :Mechanical Maintenance Coordinator

* Maintenance of Static equipments Distillation, Tower, Exchangers, Heaters, Boilers, Vessels, Column, Reactors, Tan (Storage). Worked in safety relief valves, filters, strainers, flame arrester and pipeline Plant maintenance. Involved in safety relief valves over hauling & calibration and general Valves (gate valve, globe valve, ball valve, Repair and change the gland packing and plant preventive maintenance of Static equipments.
* co-ordination with staff discussing about project activity make schedule for saving time and manpower of Mechanical Maintenance project.

**4) Company** : PetroRabigh Refinery And Petrochemicals Saudi Arabia

**Project** : Mechanical Maintenance Vacuum Distillation Unit Contract Under Abdulla AL-BARAK

**Duration** : Jan 2015 To Dec 2015

**Job title** : Mechanical Engineer Operation & Maintenance

* Air blowing.
* Steam blowing.
* Nitrogen padding and purging, Chemical cleaning.
* Responsible for Chemical Cleaning, Hydro flushing, Acid cleaning and Preservation is required to achieve the process parameters and to have a safe and smooth start-up of the equipment.
* Commissioning of pumps, agitators, blowers, dryers.
* Inspection of piping loops.
* Mechanical clearance Inspection of piping loops, and box up checking of piping loops.
* Flushing related activity.
* Steam blowing related activity.
* Checking of erected equipment like vessel, heat Exchanger, Column
* Hydro jetting of chocked equipment or piping spool.
* Hydro test of heat exchanger.
* Mechanical seal replacement job with dummy seal, Preserving of spare.
* Checking of commissioning spare and maintenance spare as per packing list.
* Maintenance of all Rotary and Static equipments, assisting the daily Operations

**5) Company** : Kuwait National Petroleum Company Kuwait.**(Offshore oil pier )**

**Project** : Oil Pier Maintenance

**Duration** : May 2011 To Dec 2014

**Job title** : Senior Mechanical Supervisor Maintenance

* **Maintenance Activities for static equipment:** General maintenance of Static equipment (Shell & Tube heat Exchangers,, Valves, Columns, vessels, Reactors, Tanks and pipe lines).
* Hydraulic/Pneumatic Testing of valves, PSV, Vessels, Exchangers and Pipe.
* Maintenance and servicing of all types of Valves, Steam traps and valve actuators and Calibrated as per Manufacture Requirements.
* **Maintain records related for equipment and safety**: Documentation of Equipment Maintenance History records, Spare part consumptions, yearly Budgeting of maintenance cost, Plant down time calculation and Technicians time sheets
* Planning the jobs, arranging work permits and other department assistance
* Conducting Toolbox meetings, drafting Standard Maintenance procedures, Critical Task analysis and Job safety analysis, and Hazard studies
* SMP-Standard Maintenance Procedure taken for Hourly based Equipment
* Co- coordinating with other departments for scheduling and execution of work.
* Well versed with reading and understanding of P&I diagrams and equipment manuals
* Preparation of failure reports and major overhauling reports

**6) Company** : Saudi Aramo - Oil Refineries Co. Saudi Arabia

**Project** :Maintenance Sulfur. Recovery ,Unit Contract Under J&P

**Duration** : Jan 2010 To April 2011

**Job title** : Mechanical supervisor Maintenance

**HEAT EXCHANGER**

Fin Fan Type, Plate Type, Shell and Tube Type. Shell and tube type have different type of heat Exchanger. Floating head heat exchanger, Fixing Tube heat exchanger, U tube heat exchanger, Kettle type heat Exchanger and doing mechanical maintenance removing all heat exchanger parts of channel cover, channel head, Floating head, floating cover, split ring, and remove tube sheet with tube bundle and including buffle plate, tie rod .And Heat exchanger mechanical cleaning of wire brushing, buffing, scraping, tube cleaning with tube cleaner and hydro Jetting and shell cleaning with hydro jetting.

The tube cleaning. Inspection tube bundle with IRAS, BORROWS COPY, EDDY CURENT. If Any tube found leakage doing mechanical plunging as a same tube and arrest the leakage. And three type of hydro Test available for leak test. SHELL TEST, TUBE TEST, FINAL TEST and used METAL JACKETED GASKET using of Heat exchanger. And shell inspection also available. UT, DPI, internal and external and MPI. Test. Finally box up the Heat exchanger.

**7 ) Company** : Kuwait Oil Company Contract Kuwait

**Project** : Maintenance Gathering Center 21 Unit Under Allmeeer Technical Services

**Duration** : Jan 2009 – Dec 2009

**Job title** : Mechanical Supervisor Maintenance

FIELD Maintenance, Routine maintenance, preventive maintenance, And Start-up Activities Static & Rotating Equipment Pre-Commissioning and Commissioning of Offshore LNG decks

* **Compressor**(single stage & multi stage, reciprocating, rotary & centrifugal, steam turbine & motor driven).
* **Pumps**(single stage & multistage, reciprocating, rotary & centrifugal, Handled **Steam Turbine** driven centrifugal pump
* Handled all type of valves and equipments like Heat exchangers, Condensers, Re-boilers, Hydrocarbon liquid heaters, stripper and Filters, Knowledge of side Fired Furnace and Top Fired Furnace
* Exposure in Fuel gas system, Lube Oil system, Methanol dosing and Flare system.
* Worked in Pressure Swing Adsorption column (Hydrogen Gas Plant), Working in Main Air blower.

**8) Company :** Manali Petro chemicals Ltd. India

**Project :** Maintenance Polypropylene Unit Direct Employee

**Duration :** June2004 to July 2007

**Job title :** Mechanical Maintenance Engineer

* Pre commissioning / commissioning & Startup of Expansion of Tank foams Project & Field Mechanical Maintenance And Start-up Activities Static& Rotating Equipment
* FLOWSERVE Condensate Loading / Export Pumps
* Oil field related Static Equipment's like Tank / Vessel / Cooling Fin Fans / Heat Exchanger
* Royce Gas Generator driven by multi stage Gas Compressors for gas injection
* Power Generator packages [30 MW] driven by Rolls-Royce RB-211 Gas Turbine
* Electric Motor driven multi stage SULZER pump for water Injection Packages

Crude oil handling Pumps like Loading / Export / close drains system / open drain system / Lift Station vertical pumps.

**9) Company : Chennai Petroleum corporation**

**Project : Maintenance Crude Distillation Unit Under A.E.M.S, Engineering**

**Duration : Apr 2001 To Mar 2004**

**Job title : Mechanical Supervisor Maintenance**

* Field Mechanical Maintenance commissioning .maintenance and shut down maintenance of Static and Rotating Equipments
* Supervising and Coordinating maintenance works, overhauling and troubleshooting of all plant equipments
* Attended training courses related: Golden Rules of Safety, Permit to work, confined space entry, energy isolation, communication, lifting operation, working at heights, management of change, driving safety. Authorized as performing authority.

**Shut down experience (3.5 Years)**

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| --- | --- | --- | --- |
| **S.no** | **Company name** | **Position** | **Experience Date** |
| 1. | Kuwait K.N.P.C Refinery SRU Unit | Mechanical supervisor | 06/2007 -08/2007 |
| 3. | Abudhabi Apsan Gas co | Sr. Mechanical supervisor | 10/2006 42 Days |
| 4. | Bahrain Babco Refinery CDU Unit | Sr .Mechanical Supervisor | 9/2007 -12/2007 |
| Bahrain Babco Refinery VDU Unit | Sr. Mechanical Supervisor |
| Bahrain Babco Refinery CDU Unit | Sr. Mechanical Supervisor |
| 5. | Abudhabi Borouge Polymers | Mechanical Supervisor | 4/2008 -40Days |
| 6. | Singapore Saraiya Refinery | Mechanical Supervisor | 1/2008 -3/2008 |
| 7. | Qatar Rasgas LNG | Mechanical maintenance Engineer | 6/2008-12/2008 |
| Qatar ORIEX G.T.L | Mechanical maintenance Engineer |
| Qatar Petroleum SRU Unit | Mechanical Engineer |

**During Shutdown**

* + Allocation of maintenance jobs to First class mechanics and pipe fitters.
  + Coordinating and obtaining the necessary Work Permits from Operations.
  + Coordinating with Welding shop, Machine shop and Valve shop Coordinating with Service contractors.
  + Carrying out the shutdown jobs as per the bar chart and ensuring the completion of the jobs within the schedule.
  + Ensuring the quality of the maintenance jobs and fulfilling all Safety regulations and Environmental guidelines.
  + Making sure that the area is properly prepared for hot works and ensuring safety of personnel during confined space work.

**Courses Attended** : 1. Permit To Work

2. John Crane Mechanical Seal training

3. SOC training programs (First Aid, Hazard Identification, SOC passport Training, and all

basic trainings given by C.P .C.L and SOC)

4. Training packages mandatory (working at height, poor lighting, confined space and H2S /

breathing apparatus training, Fire Fighting, Area Hazard identification

**Educational Qualification :**

* D.P.E (Diploma in Petro Chemical Engineering)

From State Board of Technical Edu. - India.

* B.Tech (Bachelor of Technology) In Mechanical (Part Time)

From Anna University ,Chennai - India.

* ITI training for Drilling Technology.

**Additional Qualification ( BOSIET/OPITO Safety Courses)**

* Personal safety and social responsibilities.
* Personal sea survival techniques.
* Fire prevention and firefighting.
* Elementary first aid. H2S training.
* Helicopter under water escape.
* Mechanical oil recovery system and
* Rigging and sling course.

**Diploma in Software**

* Advance Diploma in RDBMS/DBMS.
* Diploma in Internet Technology.
* Diploma in CMMIS .

**Personal Profile**

##### Date Of Birth :12-09-1980

Nationality : Indian

Passport No : Z2482341

Languages known : English, Tamil, Hindi

Religion : Christian

**Declaration:**

I hereby declare that the above furnished information is true to the best of my knowledge and belief.

Yours Truly

Date:

Place: CHENNAI (D.ARASU)