

K.AYYAM PERUMAL

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Seeking assignments in Mechanical Operations & Maintenance with a well-known organisation of repute

EXECUTIVE SUMMARY

- An astute professional with **over 17 years** of experience in **Mechanical Operations and Maintenance** in the Oil and Gas Industry.
- Knowledge of analysing processes, identifying improvement areas and implementing techniques for reducing rejection level, rework and consumption of resources.
- Undergone training as Mechanical Technician in SPIC, Tuticorn.
- Exposure in identifying areas of obstruction/ breakdowns and take steps to rectify the equipment through application of troubleshooting tools. Possess an analytical mind with the ability to think clearly.

CORE COMPETENCIES

Project Execution
Operations & Maintenance
Installation &
Commissioning
Resource Optimization
Cost Estimation and Billing
Spare Parts Maintenance

CAREER CONTOUR

ADNOC Gas Processing Abu Dhabi.	Mechanical Technician	Jun 2012 - Sep 2021
Kuwait National Petroleum Company (In KNPC Refinery in Mina Al-Ahmadi Kuwait, through Kharafi National Maint. Cont.)	Rotating Equipment Technician	Nov 2009 – May 2012
I.S.C.O., Kuwait	Rotating Technician (KNPC Mina Al Ahamadi Refinery)	Feb 2005 – Feb 2009
SPIC India	Mechanical Technician	Mar 2003 - Dec 2004

Key Deliverables:

- Carrying out plant preventive maintenance and condition based maintenance
- Checking and maintaining spare for that the equipment along with following up of safety procedures in all things.
- Processing the maintenance of Hydro cracker recovery process unit and Acid gas removal unit.
- Making and maintaining all plant data documents; electrical & mechanical spares list and inventory.
- Planning and implementing various preventive maintenance schedules of various machines to increase machine up time/ equipment reliability.
- Identifying areas of obstruction/ breakdowns and taking troubleshooting measures to rectify the equipment.
- Installing and commissioning operations of a wide range of mechanical equipment as well as machineries for diverse projects.
- Performing root-cause analysis of defects while developing & improving the processing by taking corrective actions to prevent any reoccurrences and defective issues.
- Carrying out erection and installation of equipment, machines for new project of cont.-roll MDF plant.
- Preparing maintenance schedules, inventory plan and performance parameters monitoring and thereby imparting corrective actions to the maintenance team.
- Planning the manpower and solving the issues with the help of inputs both ways through proper coordination.
- Planning and effecting preventive maintenance schedules of various machineries and instruments to increase machine up time and equipment reliability.

SKILLS PURVIEW

Maintenance:

- Removing, dismantling, overhauling & assembling the following types of equipment.
- Positioning and aligning of equipment and troubleshooting of equipment.

Pumps:

- Overhauled all type of equipment both Dynamic & Positive displacement pumps such as Centrifugal (single - Multistage both vertical and horizontal split), Plunger-Piston pumps, Gear pumps, Screw pumps Diaphragm pumps. And special High Speed Inbuilt G/B centrifugal Pump (15000 rpm).
- Inspecting and replacing all moving parts (like impeller, piston-plunger, bearing and wear rings) & Stationary parts (like bearing housing, valves, packing, bushings, and lantern ring).
- Checking and maintaining all the clearance like front, back clearances, wear ring clearances, brg. clearances and thrust bearing clearances.

- Butane/Propane Submerged Cryogenic Pump overhauling and accordingly to API610 Clearance maintained.(J.C.Carter, Nikkiso, Ebara)
- In plunger pump Full service of crank case, Valve block NRV assembly and fixing.

Manufacturers: Sulzer, Uraca , Nuovapignone, ingersoll-rand, Kirlosker

Centrifugal Compressors:

- Overhauling of rotor renewal, Radial and Thrust bearing repair & renewal, labyrinth set replacement, rotor axial & radial centering, Seal renewal.
- Performing routine check-up centrifugal compressors.
- Working in both horizontal split and vertical split type compressors. Removal of floating seal and checking and assembling can be done. Working in 5, 6, 9 stage compressors.
- Floating Film Liquid Seal, Dry Gas Seal Compressor. (Make: SULZER, MITSUBISHI)

Manufacturers: Nuevo pignone, Sulzer, Ingersoll-Rand, Mitsubishi ellioet

Reciprocating Compressors:

- Working in Service air, instrument air systems, process gas compressor.
- Performing Preventive Maintenance, Trouble Shooting and Breakdown maintenance covered with cylinder - liner renewal, suction and discharge valves inspection, repair and replacements, rider and piston rings renewal, rod packing renewal, cross head and main bearing clearance checking, Main – Big end bearing renewal and Pumping clearance Adjusting. Lubricator Maintenance.

Manufacturers: Mitsui, Ingersoll-Rand

Seals and Packing:

- Repairing and installations of various type seals, stuffing box bore trueness checking, recondition of seal faces, full servicing & assembling jobs. All type of Plunger packing system replacing. Compressor wet seal renewal.

Manufacturers: Johncrane, Burgman, DuroMetalic

Steam Turbines:

- Working in low pressure Pump driving Back pressure turbine (inlet steam pressure 450psi, 900psi). Complete overhauling including rotor renewal, bearing renewal, nozzle clearance inspection, bearing clearance inspection, rotor float checking, rotor centering and labyrinths renewal, carbon packing renewal, trip setting, chest valve assembling jobs carried out.

Manufacturers: Siemens, Mitsubishi, Ellioet, Coppel

Fans and Blowers:

- Removing and assembly of both forced and induced draft fans. Done Preventive and breakdown maintenance with trouble shooting, bearing renewal and clearance checking assist with balancing job.

Ex: Spray tower fan, Cooling Tower fan and cooling fin fans.

Static Equipment:

- Filter and strainer changing. Heat Exchangers, Reactors, Falling Film Evaporators Maintenance and Boiler maintenance.

Alignment:

To do following types of alignment:

- Straight edge Alignment
- Rim and face method
- Reverse indicator method, (Analytical and Graphical method)

Equipment Working:

- Internal and External Gear pumps
- Single stage and Double stage Diaphragm Pumps
- Belt, Screw (Single & Double), Pneumatic Conveyors
- Ball, Gate, Globe, Butterfly, Diaphragm, NRV, Special type of valve
- Boilers - (10 TPH @ 7 bar pressure – Fire tube boiler)
- Fans (Induced and Forced Draught)
- Jetty Berth Loading arm Hydraulic Cylinder Trouble shooting and over hauling.
- PSV/TSV Removal and overhauling and Testing as per API 527 Standard.
- Boiler PSV Hot Setting as per ASME Standard.
- All Kind of Mechanical /Instrument Valve Repairing and Testing as per 598 standards.

I.T.I. (Tractor Mechanic) from Govt. I.T.I, Theni; Year Aug 1998 – July1999

PERSONAL DOSSIER

Date of Birth: 31st October 1982
Current/Permanent Address: S/o A.Kaliappan, South Street, Alampatty, Kovilpatty T.K, Tuticorin, India
Passport No: L6621391
Languages Known: English, Malayalam, Tamil and Hindi