

# PULAK RANJAN SIL

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## EXECUTIVE SUMMARY

- ➔ A dynamic professional with **10 years** of comprehensive experience in the field of **Combined Cycle Power Plant Operations, Inventory Management and Man Management**.
- ➔ Associated with **Tata Power Company Ltd** from last **6 years**, as **shift in charge** at **TPDDL site**, Rithala, New Delhi in **CCPP operation**, since **August 2010**.
- ➔ **Previously worked in GVK Power & Infrastructures Ltd. Rajahmundry** for 3 years as **CCR Operation Engineer** since **July, 2007 to Aug 2010**.
- ➔ Certified **Energy Auditor** from **Bureau of Energy Efficiency**, under the ministry of power, Govt. of India.
- ➔ Certified from **Administrative staff college of India, Hyderabad** on **Indian electricity sector, competition & markets**.
- ➔ Certified from Power Plant Training Centre of ALSTOM (Switzerland) Ltd. after successful completion of training on:
  - CCPP Operation
  - Gas turbine Operation
  - Steam turbine Operation
  - HRSG Operation
  - Switchyard Operation
- ➔ An excellent communicator with good interpersonal skills.

## CAREER CHRONOLOGY

Since Aug'2010-Till date	TATA POWER COMPANY LTD.	Shift in charge-CCPP Operation
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### Key Deliverables:

#### Plant Operations

#### Inventory Management

#### Man Management

- ➔ Competent to lead the Operation team in handling normal plant operation including scheduling, load dispatch, start ups, shut downs & shift management in a large size Gas turbine based CCPP.
- ➔ Organize the plant in such a way that work is carried out to the required standard with minimum risk to men, machine and materials, comply with safety and environmental standards.
- ➔ Coordinate with all other departments all activities that are related to plant operations during the shift and comply with safety rules and regulations. Have a complete understanding of the permit to work system applied to the plant. Issue and cancel permits to work per authorization. Coordinate activities involving plant chemistry with the Chemist
- ➔ Commissioning & Operation of **Gas turbine 2x36MW (GE Make Frame-6)**.
- ➔ Commissioning & Operation of **Steam turbine 1x36 MW (Mitsubishi Make)**.
- ➔ Commissioning of **2xHRSG Boiler (Double pressure), HRSG Chemical Cleaning, and Steam Blowing activity**.
- ➔ Commissioning & Troubleshooting of **Triconex (Invensys Make) C & P System** for efficient GT Operation
- ➔ Operation of **Switchyards 66/11KV, 11/6 KV**.
- ➔ Follow preset operational schedules to fulfill the planned availability production targets safely and efficiently. Coordinate all activities or changes in plant status with operations manager.
- ➔ Involved in **Gas turbines & Steam turbine Performance Tests** and plant capacity tests.
- ➔ Established and implemented the methodology for **generation reports and performance calculations**.
- ➔ **Interlock & Protection checks** of electrical switchgear system. Prepare related

electrical protection analysis & technical reports.

- ➔ Planning & implementing **preventive & predictive maintenance** schedules for improving the reliability and safety of plant & personnel. **Handling large scale shutdown** independently involving planning, scheduling and liaising with various sections and execution.

- ➔ Preparation, review, analyze and summarize various reports related to **Power generation scheduling, Plant Declared capacity, Annual reports, Monthly reports, Daily reports, Monthly Fuel Gas Billings**, Collating, Compiling & analysis of Site Reports for **MIS & Cost Optimization**.
- ➔ Make quick, on the spot decisions to correct abnormalities or disturbances. Take corrective actions during a state of emergency. Supervise the interlock checks on start ups, protection tests, non routine activities like preservation, acid cleaning etc.
- ➔ Monitor the overall status of the plant and summarize activities in the log book. Fill daily plant status reports and relay all activities that occurred during the shift.
- ➔ Monthly **performance audits** like Heat Rate, Make up Water, Auxiliary consumption, Performance Testing of various equipments/Sub systems.
- ➔ Having good knowledge of **Electricity Acts, PPA, CERC regulations**.
- ➔ Planning, controlling & supervising safe, reliable and smooth plant operation, start up, shutdown and emergency conditions.
- ➔ Liaisoning with RLDC,NLDC, SLDC,GAIL,RIL & industrial buyers during day to day operational work
- ➔ Conducting scheduled and emergency changeovers for reliable and smooth plant operations.
- ➔ Handling PTW works for combined cycle power plant projects & involved with commissioning work & along with that mechanical & electrical isolation of various equipments & drives as per lockout & tag-out procedure.
- ➔ Risk assessment capability in the plant & can take action to mitigate the situation as per plan.
- ➔ Prepare incident / accident reports and other reports required by the departments. Keep accurate records and prepare daily and monthly reports. Assist in the training and familiarization of new personnel in the shift. Study and suggest for any modifications which can improve the plant efficiency.
- ➔ Maintain staff evaluation records, vacation schedules etc. prepare evaluation forms for personnel requirement.
- ➔ Ensure Environmental Aspect-Impact and Hazard Risk Assessment are carried out, controlled and updated
- ➔ Raising the defects in MAXIMO to appropriate maintenance departments for attending the faulty equipments.
- ➔ Ensure Legal compliance with respect to their scope of activities.
- ➔ Ensure identification of root cause for the identified non conformances/ deviations and to implement corrective actions/Preventive actions.
- ➔ Identify the competency gap for their subordinate personnel and implement necessary actions.
- ➔ Carry out annual performance evaluation of reporting employees.
- ➔ Responsible to ensure the compliance to legal requirements, contractual and organization.
- ➔ Provide on-the-job training to new employees and evaluate their performance.
- ➔ Identification, documentation and control of hazards in assigned work area.
- ➔ Ensure aspects identified are monitored and operational controls are followed.
- ➔ Report deviations in Integrated Management System identify root cause and implement corrective and preventive actions.
- ➔ Reporting of emergencies and incidents and near misses.
- ➔ Effective resource utilization.
- ➔ Perform other duties as assigned

#### **Key Highlights:**

- ➔ Proactive Member in successful Commissioning of 108 MW Rithala CCPP (both GT's each 36mw GE make, followed by STG of 36mw Mitsubishi make).
- ➔ Actively participated in **Plant Energy Audit for Energy Conservation**.
- ➔ Basic knowledge of **SAP**.
- ➔ Manage and evaluate by monitoring the day by day safety activities of operators as required by company **Safety Policy** comply with safety rules and procedure, participate in safety programs.
- ➔ Experience in procurement of Spares & services required, **Vendor development**, Expedite the delivery of the materials as per the PO terms & condition. Co –ordination with supplier, consultant & various departments for resolutions of the issues
- ➔ Responsible for scheduling work milestones for **Project commissioning** activities in Liaison with all external agencies & vendors.
- ➔ Responsible for day to day **Fuel Gas Nomination, Maintain Fuel Gas Allocation** (DCQ/MDQ) as per availability of plant in Liaison with GAIL, RGTIL, RIL & responsible to check Fuel Gas consumption & Prepare the **Joint Ticket** with GAIL for Monthly **Fuel Gas Billings**.

#### **SPECIAL JOBS CARRIED OUT:**

- ➔ ·**Start up Check-list** for various systems and **Schematics Diagrams** Prepared.
- ➔ ·Standard Operation Procedure (**SOP**) Prepared.
- ➔ ·Lock Out & Tag Out's (**LOTO**) Prepared.

- ➔ Prepared **Equipment Details Hand-Book**.
- ➔ Prepared **Commissioning Protocols**.
- ➔ Worked as **Commissioning In-charge**.
- ➔ Actively **participated in plant performance & plant Energy Audit for Energy Conservation**
- ➔ Involved in **Gas turbines & Steam turbine Performance Tests** and plant capacity tests
- ➔ Suggestion & **Field change orders** for Operation Flexibility.
- ➔ Mentoring, guiding and training the personnel to ensure best performance at work

**Since July'2007-Aug'2010**

**GVK Energy Ltd**

- ➔ Proactive Member in successful Re-Commissioning of 228 MW ALSTOM 13 E2 Combined Cycle Power Plant.
- ➔ Monitoring and recording the parameters in DCS as well as local of Gas Turbine of 150 MW (ALSTOM make GT13E2), Heat Recovery Steam Generator (Tripple Pressure).
- ➔ Operation of **Gas turbine 1x150MW (ALSTOM Make GT13E2)**.
- ➔ Operation of **Steam turbine 1x80 MW (ALSTOM Make)**.
- ➔ Commissioning of 1xHRSG Boiler (Tripple pressure), HRSG Chemical Cleaning, and Steam blowing activity.
- ➔ Troubleshooting of **ALSPA P-320 (ALSTOM Make)** C & P System for efficient GT Operation
- ➔ Operation of **Switchyards 400/15.75KV, 400/11.5 KV and switch gear of 15.75/6.6 kv and 15.75/0.415 kv**.
- ➔ Communicated with external with **GAIL, RGTIL, RIL, and SLDC & APTRANSCO** for Plant start-up/shutdown, **Fuel allocation** & for unhindered Power evacuation.
- ➔ Prepare reports to facilitate resolution of **commercial issues**. To adhere to internal/ external Audit compliance. **Regulatory Compliances**.
- ➔ Preparation, review, analyze and summarize various reports related to **Power generation scheduling, Plant Declared capacity, Annual reports, Monthly reports, Daily reports, Monthly Fuel Gas Billings**, Collating, Compiling & analysis of Site Reports for **MIS & Cost Optimization**.
- ➔ Having good knowledge of **Electricity Acts, PPA, CERC regulations**.
- ➔ Monthly **performance audits** like Heat Rate, Make up Water, Auxiliary consumption, Performance Testing of various equipments/Sub systems.
- ➔ Preparation of Performance reports **performance parameters for deviations analysis, Commissioning procedure, test & Protection checks** Protocols & analysis reports, **Failure root cause analysis, occurrence investigation reports**.
- ➔ Involved in **Gas turbines & Steam turbine Performance Tests** and plant capacity tests.
- ➔ Established and implemented the methodology for **generation reports and performance calculations** with **advance spreadsheet skill**.
- ➔ **Interlock & Protection checks** of electrical switchgear system. Prepare related electrical protection analysis & technical reports.
- ➔ **Commissioning & testing** of Plant **Emergency DG set** 380 KVA. Prepare EDG electrical interlock logics for unhindered operation during station black- out.
- ➔ Actively participated in **Plant Energy Audit for Energy Conservation**
- ➔ Manage and evaluate by monitoring the day by day safety activities of operators as required by company **Safety Policy** comply with safety rules and procedure, participate in safety programs.
- ➔ Planning & implementing **preventive & predictive maintenance** schedules for improving the reliability and safety of plant & personnel. **Handling large scale shutdown** independently involving planning, scheduling and liaising with various sections and execution.
- ➔ Experience in procurement of Spares & services required, **Vendor development**, Expedite the delivery of the materials as per the PO terms & condition. Co -ordination with supplier, consultant & various departments for resolutions of the issues
- ➔ Responsible for scheduling work milestones for **Project commissioning** activities in Liaison with all external agencies & vendors.
- ➔ Responsible for day to day **Fuel Gas Nomination, Maintain Fuel Gas Allocation** (DCQ/MDQ) as per availability of plant in Liaison with GAIL, RGTIL, RIL & responsible to check Fuel Gas consumption & Prepare the **Joint Ticket** with GAIL for Monthly **Fuel Gas Billings**.
- ➔ Got certificate from Power Plant Training Centre of ALSTOM (Switzerland) Ltd. After successful completion of training about Gas Turbine, Steam Turbine & CCPP Operation.

**SPECIAL JOBS CARRIED OUT:**

- ➔ ·**Start up Check-list** for various systems and **Schematics Diagrams** Prepared.
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- ➔ ·Prepared **Commissioning Protocols**.
- ➔ ·Actively **participated in Plant Energy Audit for Energy Conservation**
- ➔ ·Involved in **Gas turbines & Steam turbine Performance Tests** and plant capacity tests
- ➔ ·Suggestion & **Field change orders** for Operation Flexibility.
- ➔ ·Mentoring, guiding and training the personnel to ensure best performance at work.

#### SCHOLASTICS

- ➔ Certified **Energy Auditor** from **Bureau of Energy Efficiency**, under the ministry of power, Govt. of India in 2013.
- ➔ **B.Tech. (Power Plant Engineering)** from National Power Training Institute, Durgapur, under Ministry of Power Govt. of India in 2007.
- ➔ **Diploma (Mechanical Engineering)** from Birla Institute of Technology, Kolkata, W.B. under West Bengal State Council of Technical Education in 2004.

#### TRAININGS UNDERGONE

- ➔ Attended following training during Graduation:
  - Two Weeks of 210 MW Coal based Power Plant Simulator Training at Bakreshwar Thermal Power Station (An 1000 MW Thermal Power Station run by West Bengal Power Development Corporation Ltd.) in 2007.

#### CERTIFICATION

- ➔ Certified from **Administrative staff college of India, Hyderabad** on **Indian electricity sector, completion & markets**.
- ➔ Certified from Power Plant Training Centre of ALSTOM (Switzerland) Ltd. after successful completion of training on:
  - CAPP Operation
  - Gas turbine Operation
  - Steam turbine Operation

#### PERSONAL DOSSIER

**Address:** STD-1007, Block-D2, Shipra Sun Tower, Shipra Sun City, Vaibhavkhand, Indirapuram, Ghaziabad-201014, U.P.

**Date of birth:** 22<sup>nd</sup> April, 1984

**Age:** 33 Years

**Skype id:** pulakranjansil@yahoo.co.in

**Marital Status:** Married

**Current location:** New Delhi

**Nearest Airport:** IGI Airport, Delhi

**Current salary:** 12.5 lacs P.A.

**Passport No:** N6742149

**Notice period:** 1 month (negotiable)