



Seeta Ram Yadav

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OBJECTIVE

Targeting challenging assignments in the domain **Operations / Maintenance / Commissioning** with a growth-oriented organisation of repute, preferably in Power Sector / Manufacturing / Chemical/ Oil & Gas industry **Location Preference: India / Overseas**

PROFILE SUMMARY

- A Certified BOE competent professional with **9.0 years** of experience in **Operations, Maintenance, and Commissioning**.
- Currently working with **Thermax Limited, at site Navin Fluorine Advance Science limited, as a Shift In- charge (BOE)**.
- Lead in managing the operation, maintenance & Commissioning work of boilers (CFBC, IR- CFBC, WHRB, AFBC, OIL & GAS Fire) & turbines (4.4 MW to 125 MW).
- Exceptional resource-balancing skills with the capability to manage machines breakdowns, preventive maintenance, planned maintenance, overhauling, product development, daily generation report, Root cause analysis, planning for major break down, SAP data managing, SOP for operation activities & weekly Training, HIARO, PTW, BBS, TBT, Statutory Compliances, IMS Documentation, ISO documents, Energy Saving, Cost reduction, Kaizen, KPI, 5S, plant emergency activities & inventory control.
- Strong communication, interpersonal relations, mentoring, and leadership skills enables effective solutions that positively impact quality of the role performed.

CORECOMPETENCIES

Mechanical Engineering	Operations, Maintenance & Commissioning	Material Management
Productivity Enhancement	Project Planning, Execution & Management	Quality Control
Energy Saving & Plant Efficiency	Safety Management	Process Engineering

ORGANISATIONALEXPERIENCE

Thermax Limited (P & ES) site Navin Fluorine Advance Science Limited (Since Aug 2022)
Shift In-charge BOE (Power Plant).

BNK Power Solution Limited, site RSPL Limited Soda Ash Plant (May' 20- Aug' 22)
Shift In charge BOE (Asst Manager - Operation)

Thermax Limited (Power O&M) site RSPL Limited Soda Ash Plant (Nov' 18- May'20)
Control Room Engineer (Operation).

KEPCO Plant Service & Engineering Co. Ltd., Kutch (Oct' 15-Nov' 18)
Assistant Engineer (Operation) (GMDC 2*125 MW)

Milano Papers Private Ltd., Rajkot (Jul' 14 - Oct' 15)
Maintenance Engineer (Mech.)

Key Result Areas:

- Planning and effecting predictive & preventive maintenance schedules for various machinery and equipment to increase machine uptime & equipment reliability.
- Auxiliary power saving by new improvements like reduction in service air consumption, pumps throttling reduces & many others activities.
- Implementing maintenance schedules and executing periodic checks to ensure performance of various equipment and maintaining requisite documents for the same.
- Identifying areas of obstruction / breakdowns and taking steps to rectify the equipment through application of troubleshooting tools.
- Coordinating with material / spare parts planning related activities encompassing identification of vendors, requirement specification & offer evaluation.
- Keeping records of consumption of fuel and lubricating oil on daily basis.
- Ensuring compliance of statutory laws and company's guidelines relating to environmental protection and personnel safety; maintaining strict adherence to Safety Management System as per organisational guidelines; up-keeping records pertaining to same.
- Working out various requirements with respect to utilities, machines, manpower & monitoring overall operations for ensuring timely completion.
- Managing unit startup & shut down, normal & emergency operation of Boiler, Turbine, WTP & Coal Handling Plant as well as isolation & normalization of the equipment for maintenance work.
- Working out on various activities like DGR, RCA- root cause analysis report, major shut down job planning, hot start up, cold start -up, running plant emergency activities handling, improvement activities & manpower handling.
- Worked out various activities during commissioning of 3*16.66 MW Turbine, 3*150 TPH of boiler's like Safety valve's Blowing, Turbine BFP, CO2 Compressors, Turbine Blowing, Initial Start-up of boilers, ABO, RDO processes.
- Worked out various activity of commissioning & PG of 3*16.66 MW Turbine & 3*150TPH IR-CFBC boilers and it's auxiliary equipment.
- Worked out various activities like boiler 'DP TEST', ESP air load test, Turbine rolling, Extraction enable & disable, Turbine Synchronization etc.
- Worked as lead in Annual renewal of Boiler & various activities like inspection & safety valve inspection floating test and setting of pop-up & sitting pressure.
- Initiated successfully ROKO-TOKO safety Slogan in plant to acknowledge the safety at work to avoid any minor or major incident in plant.
- Logic Implementation in various equipment for safe & easy operation & including energy consumption saving of equipment.

Highlights:

At Thermax Limited. (P & ES division) at Navin Fluorine Advance Science Limited, DAHEJ Site.

- Auto start logic implementation of various equipment like BFP, CW Pump, CEP, LOP & ACW pumps.
- Commissioning of Soot blowers, Ash handling system, Coal belt Conveying system Protection interlocking, Modification in various system in the view of rainy season & moisturized coal.
- Reduction in power consumption of service & instruments compressor
- Reduction in unburnt carbon from 7-8 % to 0-1% by adjusting different boiler parameters (PA flow, SA flow, stack temperature & air fuel ratio).
- Commissioning of HP heaters, CT Fans, Bed ash feeding & Lime stone feeding system,
- Improving housekeeping by different modifications in system and enhancing the skills of manpower.
- Provision of reutilize the bed ash to bed bunker filing for saving of bed ash consumption.
- Working on various job left during commissioning of plant with commissioning team of ISGEC, TCE & ELORA
- Working out on various activities like DGR, Equipment availability, root cause analysis report, major shut down job planning, hot start up, cold start-up, running plant emergency activities handling, improvement activities & manpower handling.
- Working out various requirements with respect to utilities, machines, manpower & monitoring overall operations for ensuring timely completion.
- SAP data managing like material reservation, production, consumption, spare availability, waste generation ash etc.
- Managing unit startup & shut down, normal & emergency operation of Boiler, Turbine, CHP & WTP with coordination of all related departments to complete job within scheduled time period.
- Managing manpower according to job requirements with proper PPE's, Safety Training, JSA, HIRA in power plant.
- Working out for IMS & ISO documentation, SOP for various equipment operation, reports & trainings.
- Daily Meeting with plant head along with all concern department HOD's & acknowledging all member about operational issues & lead to complete that with proper coordination.

- Initiated successfully ROKO-TOKO safety Slogan in plant to acknowledge the safety at work to avoid any minor or major incident in plant.

At BNK Power Solution Limited. (Power O&M) at Dwarka Gujarat RSPL Soda Ash Plant Site.

- Reduced power consumption by 1000kwh/day in service air compressors.
- Target is to reduce power consumption by 3000kwh/day by stopping one service air compressor
- Reduced LOI from 13-14% to 4- 5% by adjusting different boiler parameters (PA flow, SA flow, stack temperature, FC/VM ratio).
- Improved housekeeping by different modifications and enhancing their skills.
- SPM reduction from 50 mg/Nm³ to below 30 mg/Nm³ by modification in 3 nos of ESP Fields Recti-formers & adjustments in lifting height of MIGI rapping system & GD plate modification for better distribution of flue gas.
- At the time annual overhauling of each boiler ESP all fields cleaned by our manpower & saved about 5 lakhs every year which was previously being done by third parties.
- Reduction in bed material consumption in all three boilers including boiler cold start up by 100 MT/month by utilizing the Air preheater ash.
- At the time Boiler stopped cleaning of all pressure & non pressure parts and checked with O&M team of each part jointly.
- Reduction in steam generation cost by using of low GCV (Met coke) coal mixing with imported coal.
- Major jobs during Total plant overhauling like MIVs, NRVs, safety valves & defected valve replacement work carried out with planned duration.
- Working out on various activities like DGR, root cause analysis report, major shut down job planning, hot start up, cold start up, running plant emergency activities handling, improvement activities & manpower handling.
- Working out various requirements with respect to utilities, machines, manpower & monitoring overall operations for ensuring timely completion.
- SAP data managing like material reservation, production, consumption, waste generation ash etc.
- Managing unit startup & shut down, normal & emergency operation as well as isolation & normalization of the equipment for maintenance work.
- Managing manpower according to work requirements in power plant.
- More 35 shutdowns and 50 light up process, experience in operation, commissioning and maintenance in power plant.
- Working out various activities like job planning, all kind of report like DGR, RCA, accident/ incident reports.
- Working out for ISO documentation, reports & trainings.
- Worked out successfully PG test of Unit 1 & 2 (2*150 TPH, IR –CFBC boiler & 3* 16.75 MW Bhel Turbine)
- Initiated successful development and implementation mechanism as well as the cost reduction activities related to systems along with design selection & quality control activities

At Thermax Limited. (Power O&M) at Dwarka Gujarat RSPL Soda Ash Plant Site.

- Working out various activities during commissioning of 3*150 TPH of boilers like Safety valve's Blowing, CO₂ Compressors, Turbine Blowing, Initial Start-up of boilers, ABO, RDO processes.
- Working out various activity of commissioning of major equipment's of 3*150TPH IR-CFBC boilers
- Managing unit start-up & shut down, normal & emergency operation as well as isolation & normalization of the equipment for maintenance work.
- Fully involved in commissioning of 3*150TPH boiler, CO₂ Compressors, Air Compressors, Turbo BFP and 16.75MW STG.
- More 15 shutdowns and 25 light up process, experience in operation, commissioning and maintenance in power plant.
- Initiated successful development and implementation mechanism as well as the cost reduction activities related to systems along with design selection & quality control activities

At KEPCO Plant Service & Engineering Co. Ltd.

- More than 7 Annual overhauls, 20 shutdowns and 30 light up process including cold and hot startup, experience in operation and maintenance in power plant.
- Working on daily flash report, plant generation monthly report and ISO reports.
- Initiated successful development and implementation mechanism as well as the cost reduction activities related to systems along with design selection & quality control activities.

At Milano Papers Private Ltd.

- Engaged in the maintenance of 200 TPD (tons per day) of duplex board and correction of defects of the main plant
- Successfully managed the maintenance of 25 TPH (tons per hour) boiler, pumps and correction of defects of the boilers

MAJOR PROJECTS

Title: Shift Operation of 1 X 08 Power Plant, 1*50, 2*70, 1*25 TPH CFBC Boiler, CHP Plant & WTP Plant,
Organization: Thermax Limited, Site Navin Fluorine Advance Science Limited, DAHEJ Bharuch
Designation: Shift Incharge -Power Plant.
Site: Navin Fluorine Advance Science Limited, DAHEJ Bharuch.
Department: Operation & Maintenance.

Description:

- No. of units 1 x 08, 1*24 MW STG (TRIVENI),
- 2*70, 1*50 TPH CFBC Boiler (ISGEC)
- 1 x 25 TPH GAS FIRED (THERMAX MADE).

Title: Shift Operation of 3 X 16.75 MW Power Plant & 2 X 750 TPH Soda Ash Stream Process Plant
Organization: BNK Power Solution Limited (Power O&M). Site RSPL Limited Soda ash Plant.
Designation: Assistant Manager -Operation.
Site: 3 X 16.75 MW, RSPL Rohit Surfactants Private Limited, IR-CFBC Pet Coal Based
Department: Operation & Maintenance.

Description:

- No. of units 3 x 16.75 MW
- 3 x 150 TPH IR-CFBC Boiler (Thermax, India) embodies state of the art technology of lowest emission of SOX and NOX
- 3 x 16.75 MW STG (BHEL, India)
- 2 x 750 TPH Soda Ash Stream Plant.
- Rating Super-Heated Steam 150 T/Hr., 109bar, 540° C.

Title: DCS Operation of 3 X 16.75 MW Power Plant & 2 X 750 TPH Soda Ash Stream Process Plant
Organization: Thermax Limited (Power O&M).
Designation: Control Room Engineer (O&M)
Site: 3 X 16.75 MW, RSPL Rohit Surfactants Private Limited, IR-CFBC Pet Coal Based
Department: Operation & Maintenance.

Description:

- No. of units 3 x 16.75 MW
- 3 x 150 TPH IR-CFBC Boiler (Thermax, India) embodies state of the art technology of lowest emission of SOX and NOX
- 3 x 16.75 MW STG (BHEL, India)
- 2 x 750 TPH Soda Ash Stream Plant.
- Rating Super-Heated Steam 150 T/Hr., 109bar, 540° C.

Title: DCS Operation of 2 X 125 MW Power Plant
Organization: KEPCO Plant Service & Engineering Co. Ltd.
Designation: Assistant Engineer (Mechanical) Project
Site: 2X125 MW GMDC Akrimota Thermal Power Station, CFBC boiler lignite Based
Department: Operation

Description:

- No. of units 2 x 125 MW
- 2 x 405 TPH CFBC Boiler (Alstom, Germany) embodies state of the art technology of lowest emission of SOX and NOX
- 2 x 125 MW STG (Ansaldo, Italy)
- 1 x 20 TPH oil fired boiler (Nestlet)
- 2 x 50 TPH Desalination plant (VA-Tech)
- Rating Super-Heated Steam 405 T/Hr., 138 bar, 538° C. Re Heated Steam 378 T/Hr, 47 bar

- Lignite Flow rate Worst Lignite - 179 T/Hr, Design Lignite - 101.7 T/Hr
- Modify Rankine Cycle, Surface Type Condenser
- Lime Stone Drying & Grinding System & Capacity -125 T/H

Organization: Milano Papers Private Ltd.
 Designation: Maintenance Engineer (Mech.)
 Project Site: Sv No.153, Opp-Sartanpar Village, Wankaner – 363622, District - Rajkot, Gujarat
 Department: Maintenance (Main plant and boiler)

ACADEMIC, CERTIFICATION DETAILS

2023 Advanced Project Management Programme – IIM Rohtak (Pursuing)
 2021 BOE, Boiler Operation Engineer (Central Board)
 2018 2nd Class Boiler attendant certified from Gujarat Board
 2014 B.Tech in Mechanical Engineering from Uttar Pradesh Technical University (UPTU), with 70.01%
 2007 12th from Rashtriya Inter College, Chiraiyakot, Mau, UP Board with 68.60%
 2005 10th from S K V P H S S Chiraiyakot, Mau, UP Board with 62.50%.

EXTRACURRICULAR ACTIVITIES

- Won 2nd prize in Being Engineering in-SOMNIUM -2012 organised by Rohilkhand University, Bareilly
- Partaken in:
 - TECHNOMANIA-2011 (a national level technical fest) organised by RBMI Bareilly
 - The major events conducted by R.I.M.T –BAREILLY
 - ROBOWAR- 2012 & 2013 in INVERTIA organised by Invertis University, Bareilly
- Acted as a volunteer in technical programme in Aahwan-2014 (a national level fest) conducted by R.I.M.T Bareilly

TRAINING

Organization: Asia Motors Pvt. Ltd., Bhuj, Gujarat
 Duration: 1.5 month
 Description: SOP, PFD, FMEA, MOST

Organization; Hewlett Packard
 Duration: 1 Month
 Description: Basic in Robotics

Organization: Diesel Locomotive Works Varanasi (U.P)
 Duration: 1 Month
 Description: HMS, HTS, ET and LFS

IT SKILLS

Software: CREO 2.0 (parametric), AutoCAD, MS Office (Word, Excel, PowerPoint), SAP.
 Windows: Windows XP, 7, 10

PERSONAL DETAILS

Date of Birth: 10th July 1990
Languages Known: English, Hindi and Gujarati
Present Address: 145- Apna Ghar , behind Ashray society, Nandelav , Bharuch - 392001, Gujarat
Permanent Address: Village -Samashuddinpur, P.O Mandey, District –Azamgarh, - 276129, Uttar Pradesh. (Refer to the Annexure for Academic Projects, Paper Presentations and Presentations)

ANNEXURE

ACADEMIC PROJECTS

- Design & Analysis of Quad copter Robot
- To perform Work Measurement using MOST (Maynard Operation Sequence Technics) with respect to actual timing and processes and various SOP (Standard Operating Procedure) for main line and engine line, including PFD- process flow diagram, PC-control plan & FMEA process failure mode and effects analysis
- Automatic Door Locking
- Line Follower Robot
- A Fighting ROBOT of 35 kg
- Traffic control system

PAPER PRESENTATIONS

- Present papers on:
 - 'Comparative Study of Coca- Cola'co & PepsiCo for the Green Initiatives' in national conference on SIMEST-2013
 - 'Sustainable Initiatives Taken by P&G to Protect Environment' in I. C. on Emerging Challenges and Issues in Environmental Protection ICECIEP-2014 (ISSN: 2076-5061) (<http://recent-science.com>)

PRESENTATIONS

- Robotics, Diesel locomotives
- Comparative Study of Coca- Cola'co & PepsiCo for the Green Initiatives
- Sustainable Initiatives Taken by P&G to Protect Environment
- Design & Analysis of Quad copter Robot