

# Nilesh Kumar Lohar

## Mechanical Engineer with 14+ Yrs of Experience

Experienced mechanical engineer providing technical expertise in power generation. Collaborate with stakeholders, evaluate bids, ensure compliance, support commissioning, and contribute to efficient project execution and asset lifecycle extension



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## COMPETANCY

CONSTRUCTION MANAGEMENT

MAINTENANCE PLANNING

PROJECT MANAGEMENT

GAS TURBINES

STEAM TURBINES

COAL BASED POWER PLANTS

COMBINE CYCLE (CCGT)

WATER TREATMENT PLANTS

PROBLEM SOLVING

OVERHAULS MANAGEMENT

NEGOTIATION

VENDOR MANAGEMENT

CRISIS MANAGEMENT

Project Coordination

DOMAIN KNOWLEDGE

Quality Assurance

Project Delivery

Industry Knowledge



## WORK EXPERIENCE

### PRINCIPAL ENGINEER

FICHTNER GmbH &KG.CO

03/2021 - Present

Bangladesh

RESPONSIBLE FOR BALANCE OF THE PLANT SYSTEM OF PROJECT

#### Tasks

- Plan and provide technical support during the execution and commissioning of power plants, working closely with Contract Administration Management to ensure compliance with mechanical standards and requirements.
- Overseeing the execution of projects, ensuring adherence to the established plans, timelines, and budget and coordinating project activities, monitoring progress, and managing risks and issues that arise during the project lifecycle.
- Maintaining site team as per agreement with BIFPCL to supervise the construction erection program of complete civil, structural, architectural, mechanical, electrical & instrumentation work and provide expert advisory services.
- Site Supervision & Monitoring of Plant Water System, UF-RO-DM, ETP, Cooling water, Cooling Towers, Fire Fighting System, Fuel Handling System, and Coal Handling system i.e. Coal conveyor, Ship unloaders, Coal Stackers & Reclaimers.
- Providing technical guidance to support project design, development, testing, and implementation phases.
- Instrumental in carrying out field quality inspection, checking, controlling & certifying the actual executed work, adherence to quality standard, visual inspection of materials received at site and report on shortage & damage if any.
- Ensured adherence to safety by conducting risk assessments to add control measures, creating a healthier and safer environment and quality as per the safety standards and field quality plans.
- Certification of month RA bills of EPC contractors in accordance with the BOQ, BBU and contractual agreements.
- Monthly project review meeting, weekly review meeting with the EPC contractor, and Daily project progress meeting with a client in order to identify & discuss critical issues and bottleneck areas.
- Provide comprehensive technical support and project management expertise to management teams, ensuring smooth execution of projects in alignment with design and established quality standards.



## WORK EXPERIENCE

### LEAD MECHANICAL ENGINEER

Samsung C&T Corporation- Engineering and Construction

12/2016 - 05/2020

Saudi Arabia, Qatar, Bangladesh

RESPONSIBLE FOR COMMISSIONING OF MECHANICAL SYSTEM OF COMBINED CYCLE POWER PLANT

#### Achievements/Tasks

- ▶ Led team of 4 engineers during Cold-Commissioning and Hot-Commissioning ASL (Arabian Superlight Crude Oil) firing for the Siemens SGT6-5000F Gas Turbine.
- ▶ Oversaw the installation, commissioning, and operation of various systems in the Balance of Plant (BOP) area of a Combined Cycle Gas Turbine (CCGT) power plant.
- ▶ Oversaw the installation and commissioning of the HRSG and its auxiliaries, including the feedwater system, steam drum, and blowdown system, to ensure safe and efficient operation of the plant.
- ▶ Managed and supervised a team of engineers, and technicians for the installation and commissioning of Water Treatment Systems such as PT Plant, RO Plant, DM Plant, Effluent Treatment Plant (ETP), Sewage Treatment Plant (STP), and their associated equipment and auxiliaries.
- ▶ Expertise in commissioning of Combine cycle power plant including gas turbine, steam turbine, HRSG & related auxiliaries.
- ▶ Commissioned SIEMENS MAKE GAS TURBINE MODEL SGT5-4000F and Steam Turbine Model SST5-4000.
- ▶ Commissioned GE MAKE A-16 and D11 STEAM TURBINE AND ITS AUXILIARIES.
- ▶ Expertise in troubleshooting of steam turbines & gas turbines, Major/Minor inspections of Gas turbine burner, combustor shell, hot gas paths, and compressors, and Expertise in the inspection of internal gas turbines, steam turbines, and compressors.
- ▶ Actively participating in the identification and implementation of process improvements within the project management practice. This involves sharing lessons learned, suggesting efficiency enhancements, and promoting best practices.
- ▶ Facilitated commissioning meetings and guided to ensure the successful completion of commissioning activities. Led discussions and commissioning plans, procedures, and reports to ensure that all stakeholders were informed and aligned.

### MECHANICAL ENGINEER

HYUNDAI HEAVY INDUSTRIES CO.LTD

04/2015 - 10/2016

Kuwait

RESPONSIBLE FOR COMMISSIONING OF COMBINED CYCLE GAS TURBINE POWER PLANT

#### Achievements/Tasks

- ▶ Manage BOP area projects for a 1550 MW combined-cycle gas turbine (CCGT) power plant, including HRSG and its auxiliaries, intake water systems, fuel gas and fuel oil handling systems, gas compressors, air compressors, condensate systems, and hydrogen generation plant.
- ▶ Provide technical support to the operation and maintenance team, including troubleshooting, root cause analysis, and corrective action recommendations.
- ▶ Commissioned GE FRAME-9FA Gas Turbine, and GE Steam Turbine of Capacity 250MW including the commissioning of HRSG & Auxiliaries.
- ▶ Prepared and presented the project progress to internal and external stake holders on periodical basis.
- ▶ Commissioned hydrogen generation plant.
- ▶ Developed commissioning procedures to be used during pre-commissioning & commissioning activities.
- ▶ Development of safety procedures to be used during pre-commissioning & commissioning activities and work permit procedures in collaboration with HSE department.

### MECHANICAL ENGINEER

Technocraft GTCC W.L.L,

03/2014 - 03/2015

kuwait

RESPONSIBLE FOR MAINTENANCE ACTIVITIES OF GAS & STEAM TURBINES AND AUXILIARIES

#### Achievements/Tasks

- ▶ Involved in rehabilitation of STG and its auxiliaries that had undergone a severe damage due to fire incident.
- ▶ Carried out inspection of steam turbine, condenser, rotating equipment etc and prepared technical assessment report.
- ▶ Prepared long term preservation plan for steam turbine generator and auxiliaries.



## WORK EXPERIENCE

### ASSISTANT MANAGER

ADANI POWER LTD

08/2008 - 02/2014

#### Achievements/Tasks

- Involved in maintenance planning, condition based monitoring and prepare reports on MIS for 2x660 MW thermal power plant.
- Planned and supervised various maintenance activities in STG & auxiliaries like minor & major overhauls, preventive maintenance etc.
- Involved in erection and commissioning of 2x660 MW steam turbine & auxiliaries at Adani Power Rajasthan Limited, kawai.
- Ensured smooth coordination of works, and monitored erection progress of turbines, condensers, CW pumps, cooling towers, and intake pump house.
- Developing comprehensive project plans, including scope, schedule, budget, and resource allocation. This involves collaborating with stakeholders to define project objectives, deliverables, and success criteria.
- Conducted the weekly meetings with EPC & Their sub-contractor for smooth & timely execution of work.
- Ensure construction projects adhere to contract mechanical standards.
- Plan and support commissioning activities in collaboration with Contract Administration Management.



## EDUCATION

### BE - MECHANICAL ENGINEERING

RAJASTHAN UNIVERSITY , JAIPUR

07/2004 - 04/2008

### MBA IN OPERATIONS MANAGEMENT

SYBIOSIS , PUNE

07/2009 - 04/2011



## PROJECTS

MAITREE SUPER THERMAL POWER PLANT ( BIFPCL - A JV BETWEEN NTPC & BPDB), BANGLADESH (03/2021 - Present)

- 2x660 MW COAL BASED SUPERCRITICAL THERMAL POWER PLANT

RABIGH-2 IPP, SAUDI ARABIA (10/2019 - 05/2020)

- 2060MW CCGP

SIDDHIRGANJ, DHAKA, BANGLADESH (10/2018 - 09/2019)

- 335MW CCGP PROJECT

UMM AL HOUL POWER PROJECT IWPP, QATAR. (12/2016 - 08/2019)

- 2520MW CCGT POWER PLANT + 136.5 MIGD DESALINATION PLANT, RO+MSF

AZ ZOUR NORTH IWPP PROJECT, KUWAIT. (04/2015 - 10/2016)

- 1550MW CCGT POWER PLANT + 107 MIGD DESALINATION PLANT, MED

SABIYA CCGT POWER STATION, KUWAIT (04/2014 - 03/2015)

- 2000MW CCGT POWER PLANT

ADANI POWER RAJASTHAN LIMITED, KAWAI, INDIA (09/2011 - 03/2014)

- 2X660MW SUPERCRITICAL THERMAL POWER PLANT,

ADANI POWER LTD, MUNDRA, INDIA (08/2008 - 08/2011)

- 4X330MW & 5X660 MW SUPER CRITICAL THERMAL POWER PLANT



## SOFT SKILLS

MS OFFICE

AUTOCAD

SAP



## REFERENCES

Burak Cekmez, Resident Manager,  
"Fichtner GmbH & Co. KG, Maitree STPP, Bangladesh"  
*Contact : Burak.Cekmez@fichtner.de - +8801712770703*

Prakash Chandra Nainwal, Dy. General Manager  
"NTPC Limited, (A Government Of India Enterprise)"  
*Contact : pcnainwal@ntpc.co.in - +91-9650990906*



## LANGUAGES

ENGLISH

*Native or Bilingual Proficiency*

HINDI

*Native or Bilingual Proficiency*

GUJARATI

*Native or Bilingual Proficiency*

BENGALI

*Professional Working Proficiency*