**Sandeep Mishra**

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**Maintenance Lead**

Performance-driven engineering professional with technical and managerial experience across various sectors including power sector, Oil & Gas, EPC, and IPP. Track record of spearheading multiple complex construction projects within budget and time constraints. Solid expertise in developing innovative, cost-efficient designs within an engineering environment. Adept at identifying the root cause of issues and implementing creative, targeted solutions. Team spirited with effective communication and presentation skills, able to co-ordinate with management, vendors, and staff to achieve goals. Well-versed in international codes and standards such as ASTM/ASME, HEI, HIS, API, and CEMA. Bi-lingual with operational command over English and Hindi.

**Areas of Expertise & Technical Skills**

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| --- | --- | --- |
| * Installation/Erection * Contract Management * Water & Waste Water * Engineering Protocols | * Equipment Maintenance * Site Co-ordination * Maximo/MS Office (Project) * Heavy Lift Execution/MEP | * Commissioning & Testing * Project Management * Plant Operations * Gas Turbine/Steam turbine |

**Professional Experience**

**VARIOUS ORGANISATIONS** 2007 - Present

**Maintenance Lead-Mechanical/Senior Engineer**

Oversee overall functions of operations & maintenance, construction cum installation, site, and commissioning management. Administer QA/QC plan, site schedule, progress of works, and cost drawdown for mechanical system. Streamline site operations as per company polices and local regulations. Manage mechanical equipment and monitor suppliers and sub-contractors for electro-mechanical cum civil interfaces. Create installation narrative method statement for heavy equipment including steam turbines and generators, and HRSGs modules/harps. Conduct techno economic analysis of equipment and deliver inter-disciplinary input to engineering deliverables such as P&IDs, flow-diagrams, procurement specifications, location, and work packages. Supervise engineering, construction, and commissioning process from conceptual development stage through project management.

*Key Projects:*

***Sabiya-2 GTPP (Operations & Maintenance) - 500 MW, 2 Siemens Gas Turbine (SGT5-4000F)***

***Sabiya-3 CCGT (Operations & Maintenance) - 962.8 MW (2x2x1 configuration)***

*Organisation: Alghanim International* • *Location: Kuwait*

* Actively expedited corrective maintenance of Combined Cycle Power Plant including all rotating equipment and plant modification/maintenance for safe operations.
* Analysing spares management and maintenance plan, executing warranty claims, Engineering change control, supervising team of maintenance engineers and supervisors, assisting Siemens in gas turbine outage inspections.
* Reviewed and created preventative maintenance strategies.
* Performed root cause failure analysis and recommend corrective actions to prevent failures. Leveraged trend analyses and Root Cause Analyses to improve mean time between failure.
* Reviewed and created preventative maintenance strategies. Determined pump inefficiencies using performance parameter trending.
* Successfully revamped a site-wide vibration analysis program reducing maintenance expense. Provided real time vibration analysis and supervised the portable vibration collection and interpretation efforts of maintenance and operations personnel.
* Performed field vibration tests for high capacity pumps, and developed and implemented machinery surveillance plans. Conducted machinery vibration analysis and supplied suggestions for our customers' proactive or predictive maintenance activities.
* Developed equipment inspection procedure. Maintained daily runtime tracker and generated performance reports for key systems to highlight.

***2x184.7 MW & 1330000 Lb/hr Steam Generation ABQAIQ Cogen Plant/2x84.7 MW & 600000 Lb/hr Steam Generation HAWAIAH Cogen Plant/2x182.7 MW & 1330000 Lb/hr Steam Generation Ras Tanura Cogen Plant***

*Organisation: Samsung Engineering India Limited* • *Location: Saudi Aramco*

* Secured Cogen project within time and budget by carrying out detailed HAZOP, HAZID, and SIL study.
* Led gas turbine, HRSG packages, steam cycle, P&ID development, and HMBD.

***2X660MW BALKHASH Super Critical Thermal Power Project***

*Organisation: Samsung Engineering Company Limited(SECL)* • *Location: Almaty, Kazakhstan*

* Executed, co-ordinated, finalised, and supervised process engineering process from the conceptual development stage through project management.
* Maintained conveyor, water intake, fuel oil, bulk material handling, fuel gas, Ash pond, waste disposal, silos, and coal unloading systems, Stackers cum Reclaimers, Ship unloading system.

***2X660 MW Super Critical Thermal Power Project CEPL***

*Organisation: TATA Consulting Engineers (TCE)* • *Budget: $863.74M* • *Location: Tuticorin*

* Directed all aspects of process engineering such as Water steam cycle, P&ID development, and HMBD.
* Integrated and installed complete bulk material handling such as coal handling, unloading system, Ship Unloading, storage system, pneumatic, crushing cum feeding and boiler injection, pressurised ventilation, rail layout design, dust collection systems. Stackers cum Reclaimers, and Ship unloading system.
* Oversaw engineering, erection, commissioning, and performance for maintaining conveyor system, screens, silos, crushers, boiler feeding, pumps, and compressors.
* Managed heavy equipment and proposed project scope. Developed and commissioned stockpile, coal silos, ash silos, slurry disposal system, ash pond, Rail car tipplers, and water recovery systems.
* Drafted operations and maintenance sequence documents and led BOP equipment engineering procedure.

***2X250 MW Thermal Power Project Bhavnagar***

*Organisation: TATA Consulting Engineers (TCE)* • *Budget: $469M* • *Location: Gujarat*

* Designed and erected limestone flue gas desulphurisation (FGD) and merry go round services systems.
* Engineered erected and commissioned Stockpile, lignite silos, ash silos, slurry disposal system, ash pond system, pneumatic, cross country conveyors, and water recovery system.

**Education & Credentials**

**Master of Business Administration in Sustainable Development (MBASD),** EUCLID, Present

**Bachelor of Engineering in Mechanical Engineering,** Ramaiah Institute of Technology, Bangalore

**Executive Management - Project Management,** XLRI Jamshedpur, India

**MIET (UK) Membership, CEng.** Current

Trainings:

Course on Power Plant Control Loop, NTPC-PMI, Noida, India

Course on Transportation & Storage of Coal Ash, IIT Delhi, New Delhi, India

ISO-9001, 2015 Quality Management System, Kuwait

Personal Details:

January 7th, 1982 • India • Indian • Male • Married