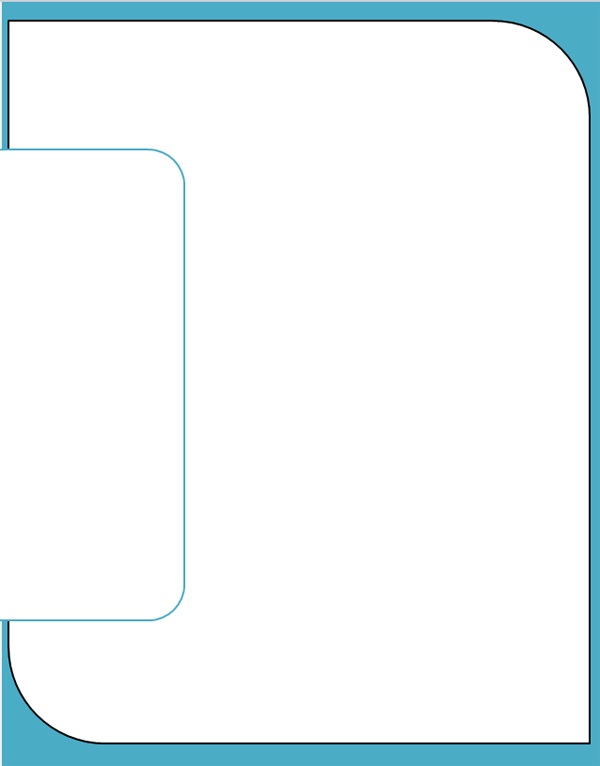
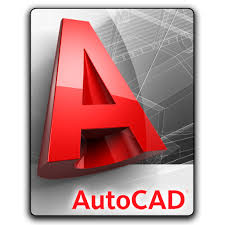
****

SANDEEP KUMAR SAHU

**Salaried Proficiency**

***Objective***

***To work in competitive and challenging environment to enhance my technical & personal attributes and to implement efficient working methods for the betterment of organization and thus to deliver tangible value to my employer.***

***Right now, I am looking for a suitable Sr. Managerial / Head position with a company that is renowned for hiring exceptional people and for giving those unparalleled opportunities to build their careers and capabilities.***

**Group head, BOP– Mechanical Maintenance Department**; **Dec’09 to till now.**

**Tata Power Company Limited, Maithon power plant -** (525 X 2 = 1050 MW).

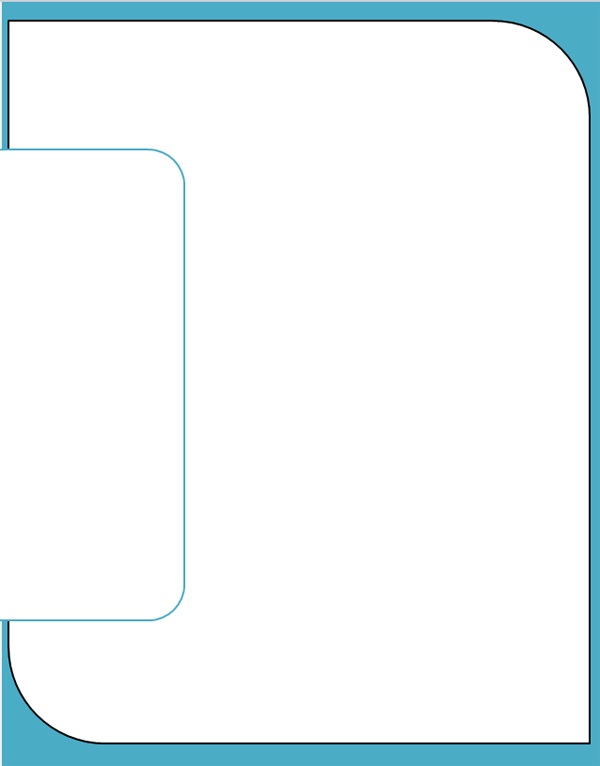
**Tata Power** is India's largest integrated power company with a significant international presence. The Company has an installed generation capacity of 10496 MW in India and a presence in all the segments of the power sector in Generation (thermal, hydro, solar and wind), Transmission, Distribution and Trading. It is one of the largest renewable energy players in India & has developed country's first4000 MW Ultra Mega Power Project at Mundra (Gujarat) based on super-critical technology.

**JOB PROFILE**

* Responsible for leading the Mechanical maintenance of equipment's related to 120 & 525 MW units with sufficient experience of total 15 years in handling Annual shutdown auxiliaries in addition to routine, preventive, predictive, Reliability as part of maintenance strategy.
* Responsible for Budget Planning, Spare Management, CAPEX Management, Handling Refurbishment and modernization project as per Regulator.
* Proficient in Annual maintenance plan for the Ash plant area, CW/ACW/CCW/Pumps/ Surface condenser/Plate heat exchangers.
* Condition monitoring of the equipment and tracking the equipment efficiency for above works.
* Responsible for inventory management, vendor development, maintenance report, Outage report, Breakdown report and Monthly maintenance report.
* Capable of Trouble shooting of Vertical turbine pumps, Split casing pumps & end suction pumps for vibration or flow related problems.
* Responsible for dealing with labor force and handle HR issues in plant.
* Conversant with ash pant systems (FLY & WET) & cooling water systems to implement as part of RCM for CW pump & ACW/CCW pumps.
* Responsible for day to day maintenance of Power Plant equipment's. Have knowledge of General maintenance practices, routine maintenance and preventive maintenance techniques of equipment.
* Responsible to carry out trouble shooting of equipment such as Pumps, Fans, etc.
* Responsible to carry out various maintenance works in all areas during shifts and take care of plant emergencies.
* Responsible to collect data and analyze occurrences by studying trends of various parameters.
* Responsible for completing mechanical maintenance of the plant equipment's as per work instructions.
* Responsible for planning and executing outages in area of work
* Responsible for spares planning, preparation of PRs for purchasing spares
* Responsible for coordinating and networking with contractors and vendors.
* Have good knowledge of SAP PM/MM modules and also word, excel & power point.

**RESPONSIBILITIES**

**Presently working in cooling water area (CW) area around 5.5 years**



SANDEEP KUMAR SAHU

* Presently looking after CW pumps model; BS-800 001, VL-800 002, BHQ-62, 70 & 75. Doing Preventive maintenance (PM) & Routine maintenance (RM) of these vertical turbine pumps.
* Conducting CFD analysis of CW sump to study flow model for flow related issue.
* Also looking after single stages pumps; i.e. ACW, CCW, Service water pumps & Air washer system with its maintenance, overhauling & retrofitting job.
* Looking after Surface condenser, high pressure jet cleaning & chemical cleaning, in ASD. Doing coating of condenser inside condenser in ASD.
* Conducting Eddy current test in condenser, Boroscopy test to identify leakages.
* Looking after Plate heat exchangers & its maintenance during overhauling.
* Looking after butterfly valves (1000 & 1200 nb) & it's servicing during servicing job.
* Looking after CT fan areas for PM & RM Job.
* Doing flow measurement of CW/ACW/CCW pumps to improve flow & making action plan to improve flow like changing of Bowl assembly from Voltas to KBL, changing of impellers etc.
* Modification of CW pumps column pipe from Voltas design to KBL spider design to prevent CW pump breakdown & to reduce vibrations.
* Doing Condition based maintenance of CW, ACW/CCW/S. W pumps to reduce vibrations levels.
* Complete breaking of pump base & erection of new base to reduce vibration.
* Doing improvement project like provision of additional base pads in U#1 CW pump to reduce vibration.
* Procuring of spares & its follow up in SAP using MM module.
* Looking after the defects of all plant generated in SAP.
* Applying PTW to work for defects raised using SAP & closure in SAP systems after job is over.
* Managing manpower, making maintenance planning, spare parts management, analysis and troubleshooting of equipment, Have sound knowledge with LOTO & Rack out system in power plant & also with our Costumer NOVOCO cement plant, sound knowledge in pneumatic cylinders in ash plants.
* Implemented 5S in CW pump house area as per check list.
* Working with RCM core team like preparation of task list, FMEA creation & copying in RCM template for implementation of RCM based maintenance.

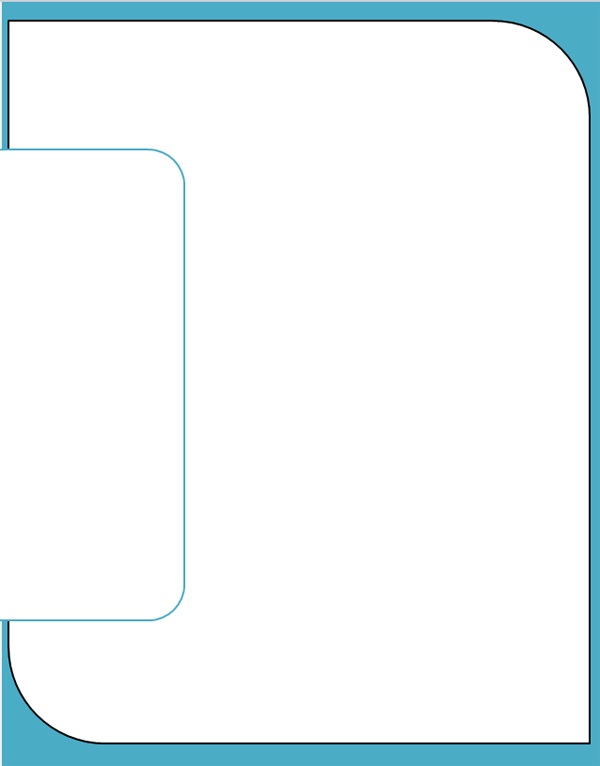
**Worked in Ash plant area, (both FLY & WET ash) area around 5.0 years**

* Doing preventive & routine maintenance of fly ash transmitters.
* Changing of fly ash pipes with Wear resist pipes to reduce no of leakages.
* Changing of bends regularly from CI to Ceramic to avoid ash leakages.
* Inspection & overhauling of ESP (ACC & BHEL make)
* Maintenance of silo bag filters, target box, liners etc.
* Trouble shooting of faults of ash plant conveying systems
* Doing P.M & Routine maintenance of clinkers grinders, wet systems, bottom ash sump, pumps, recovery water pumps & HCSD pump (reciprocating), screw compressors blowers etc.
* Planning of spares of all fly & wet system using SAP, MM module.
* Optimize critical spares so that plant availability doesn’t hampers & thus reducing inventory level.
* Making Purchase requisition of spares needed for CW area.
* Keeping safety stock of spares.
* Developing alternate vendors to reduce budget costs.
* Doing refurbishment of CW spares shaft to reduce costs.
* Doing capitalization of Capex budget after project execution.
* Doing air audit from third party air optimization.
* Taking of new improvements projects to reduce ash leakages & spillages.
* Also worked with maintenance of Axial & radial fans.
* Looking after the Condition based maintenance of pumps (CBM) & for reduction of vibrations
* Checking Vibration of all rotary parts pumps, vertical turbine, and single stages pumps.
* Correction of Vibration as per CBM recommendations.

**PROJECT COMPLETED SUCCESSFULLY**

**ASH PLANT AREA:**

* Upgradation of fly ash plant, 67.5 mw from old ABB lean phase to Macawber Beekay dense phase systems.
* Conversation of MS pipelines to Wear resist pipeline fully in all units to enhance pipe life.



SANDEEP KUMAR SAHU

* Conversion of Ceramic pipe in U#1 PD pump line to reduce ash leakages.
* Modifications of Silo bag filters with new type Bag filter with PRV to avoid ash cloud formations.
* Changing of ash slurry lines with Cast basalt pipeline to reduce leakages.
* Changing of ESP electrodes (collecting & emitting) fully in ACC model ESP to reduce emission level.
* Modification of Clinker grinder's stuffing box to reduce gland leakages of Clinker grinder.
* Installation of PRV in compressed air line to avoid wastages of compressed air used for conveying.
* Modifications of slurry pumps to expeller design without sealing.
* Replacement of HP pumps; Voltas design with KBL design pumps to reduce pump breakdown.

**CW/ACW/CCW PUMP, CONDENSER, CT FAN AREA:**

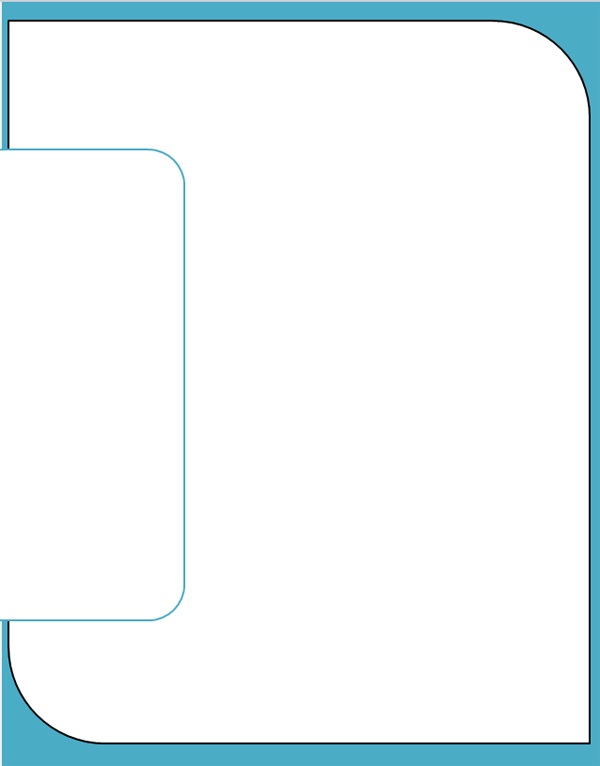
* Changing of Voltas design CW pumps (Vertical turbine pump) to KBL pumps to improve flow to design value & smooth running of pump without vibration.
* Changing of CI stage casing to CF8M material stage casing to avoid pump breakdown from CI stage casings.
* Modification of Unit#1 CW pump base (stool piece) from 4 pads to 16 pads to reduce vibration successfully in-house without OEM help.
* Reduction of vibrations of ACW /CCW pumps by changing base frame as per CBM recommendations.
* Replacement of CT fan (double shaft) with single shaft (REXNORD make) to reduce failure.
* Replacement of gearbox with Shanti make, robust gear box to reduce breakdown of CT fans.
* Base modifications of CT fan gear box & motor to reduce vibration level.
* Installation of 3rd CW pump in U#5.
* Doing eddy current rest for condenser tube leakage identification.
* Doing CW sump CFD analysis to know flow pattern inside sump.
* Doing FMEA on ACW/CCW pump for defect analysis.

**MAJOR ACHIEVEMENTS**

* Successful upgradation of U#1 Fly ash plant from ABB to MBPL system.
* Reduction of CW#1B vibration in-house by providing extra pads in pump stool piece without OEM.
* Complete pipe changing job in fly ash systems from U#1 to 5 by wear resist pipes & Ceramic pipes.
* Reduction of leakage in Clinker grinders by stuffing box modifications.
* Improvement of flow by changing CW pump bowl from Voltas to KBL type.
* Installation of 3rd CW pump in U#5, BHQ-70 model.
* Reduction of ash spillage at silo top by modification of baghouse.
* Complete Reduction of Vibration of ACW/CCW pumps in-house.
* Single shaft changing job at CT fan area.
* Reduction of vibration completely in CT fan area by modification of base frames.

**TRAINING ATTENDED**

* ESP training at NPTI, Nayeli.
* Fans training at NPTI, Badarpur.
* Boiler tube leakages training at NPTI, Durgapur.
* Compressor training at IIPM, Kansbahal.
* Bearing technology training at SNTI, Tata Steel.



SANDEEP KUMAR SAHU

* Business writing skills at Tata power.
* Communication skills at Tata power.
* Behavioral training like Spandan.
* FMEA training from Trombay power station.

**Engineer -** Power Plant O&M  **May’08-Dec’09**

**Korea Plant Service & Engineering -** (Site- Vedanta Aluminum Ltd, Jharsuguda Odisha); (9X135MW =1215 MW CPP)

**RESPONSIBILITIES**

* Responsible for maintenance of various Rotating Equipment's, Slurry Pumps, valves, Compressor, Blowers, Boilers Fans. (ID, FD, PA, Seal air fan, Scanner air fans) including balancing, ESP maintenance and inspection, mills feeders& inspection.
* Responsible for maintenance of mill, ring roller setting, Classifier setting of mill & Scrapper inspection of mill.
* Have Experience in Commissioning of C.P.P (9x135 mw)
* Responsible for Maintenance of Soot Blowers both (R.S.B. & L.R.S.B.), B.F.P, Wet scrubber, Gauge Glass of Drum, mills and feeders
* Responsible for maintenance of all Rotary fans, Valves, ash transmitters, slurry pumps, Clinker grinder, Chain Conveyer, E.S.P internals, GEHO reciprocating pump, L.P. dosing and H.P. Dosing pumps.
* Doing job planning & scheduling, doing preventive maintenance & collecting punch items and defects.
* Responsible in leading a group of persons & client.
* Responsible for doing all type of modification jobs.
* Vibration analysis using data pack machine, I- Pac m/c
* Doing for Balancing of fans. (static/dynamic)
* Doing Preventive Maintenance of Coal mill, pumps, feeders, slurry pumps, ash transmitters, wet systems etc.
* Schedule checking of punch & pending items.
* Responsible for Boiler tube checking, attending leakages, tube inspection,
* Planning of operation & maintenance of power plant through quality management systems

**Assistant Engineer -** Power Plant **(O&M) :- Apr’05- Apr’08**

**Bhushan Power & Steel Ltd -** (60X1 +40X1+130X2 MW+66 MW = 326 MW); Dist.; Sambalpur, Odisha

**RESPONSIBILITIES**

* Responsible for Operation 51 TPH WHRB as per SOP.
* Done commissioning of 51 TPH WHRB boilers.
* Responsible for alkali boil out & steam blowing of boiler.
* Collection of pending/punch points of boilers.
* Have associated in all types Boiler/TG auxiliaries, i.e. Fans, Feeders, ESP, Fuel handling system, Cooling towers, Water handling systems, Ash handling system etc.
* Responsible in handing boiler in black out, islanding mode, power failure situation efficiently.
* Have Sound knowledge about boiler interlocking & parameters.
* Looking after Condition monitoring of rotary parts.



SANDEEP KUMAR SAHU

**Address**

**Flat no-811, Building-IVY, 1st floor;Phase 2, At/Post-Vijaya Garden, Baridih, Dist. - East Singbhum (Jharkhand), 831017, India**

**Contacts**

**+91 9472713858**

**+91 9439256618**

**Email**

**sandeep.dkl@gmail.com sandeep.sahu@tatapower.com**

**Date of Birth**

**30th Jun 1983**

**Marital Status**

**Married**

**Linguistic**

**English | Hindi | Oriya**

**Father’s Name**

**Mr. Ganesh Kumar Sahu**

* Have knowledge about water chemistry; DM plant system.
* Responsible in all types of Daily shift generation reports, Availability reports, water analysis reports For Smooth operation of boiler as per SOP.
* Responsible for working independently with Hot & Cold Startup of A.F.B.C & WHRB Boiler 150 & 51 Ton per Hour respectively.
* Have knowledge of pressure parts, High pressure valves, Soot blowing systems, Boiler rotary equipment's.
* Have working knowledge with all Balance of plant.

**\*Also worked in Wartsila India Ltd for 5.5 months in mechanical maintenance dep’t. (3X30 mw Co Generation power plant)**

**Academic Accolades**

* + - * **Bachelor’s in engineering (Mechanical) from Biju Patnaik University of Technology - Rourkela, and Odisha with 63% in 2004.**
      * **12th from C.H.S.E Board in 2000.**
      * **10th from C.H.S.E Board in 1998.**

**Strengths & Interests**

* Effective Communication
* Adaptive ability and Learning attitude
* Analytical skills
* Leadership skills
* Commercial Awareness
* Result oriented, Creative and Self-Motivator
* Ability to remain calm in stressful situations

***I hereby declare that the details provided by me in this resume are correct and I have knowingly not omitted/ misrepresented any information. I am aware that the company can use this data for verification purposes and any material inconsistency identified between the details shared above versus actual information would have a* bearing on my employment, based upon company policies.**

**Date: 01/04/21**

**Place: Jamshedpur**

**Current CTC- 15.35 lakhs/Annum**

**Expected CTC- 30-35 % hike (Negotiable)**

***SANDEEP KUMAR SAHU***