

VIJAY KUMAR B ALGUDKAR

Location: Gujrat (India); Contact: +91 7019362858; Email: abvk84@gmail.com

LinkedIn: <https://www.linkedin.com/in/kumar-v-b8b393182/>

Team Lead - Mechanical Maintenance Team at Tata Power Company Mundra

Targeting top organizations in the Mechanical Sector with challenging assignments at Managerial position, posses excellent track record of delivering world-class maintenance strategy services.

Maintenance Planning & Execution ≈ Requirement Analysis ≈ New Concept Development ≈ Manufacturing and Assembly Operations ≈ Prototype Development ≈ Research Strategy & Innovation ≈

Career Précis

A result-oriented and technically competent Of Thermal Power Plant Mechanical Maintenance System with vast experience of 18+ years spans across leading design teams, mechanical maintenance systems to deliver world-class products. Thorough understanding of Product Life Cycle Management including requirement analysis, finalizing RCM of mechanical equipments & its specifications & designing, prototype development and testing activities with primary focus on Quality, Cost & Delivery; developing components in conformance to pre-set technical specifications.

- **Extensive experience in various domains Like SAP / PM / WCM / MDG**
 - Operation & Maintenance of Ash Handling & Balance of Plant Equipments.
 - Maintenance of rotary and static equipment
 - Spare/Service procurement and planning
 - Initiating and carrying out projects that improve efficiency and/or reduce operating costs; tracking, analyzing and improving key maintenance strategy
 - Smooth running of plant and to ensure safety of both man and machine.
 - Section In-charge at Site for Contracts for Mechanical Maintenance.
 - Fly Ash Storage Optimization
 - Overhauling and maintenance of silos and its auxiliaries
 - Value Added Innovative Projects Implementations
 - Exposure of Erection, Commissioning, Maintenance activities of system

Professional Abridgement

TATA POWER Co, Ltd. MUNDRA (4000 MW UMPP)

Since Nov 2018

Team Lead - Mechanical Maintenance Department (MMD)

- Responsible for Overall Mechanical Maintenance activities of Plant (BOP, Fly Ash, Bottom Ash & Silo Area)
- SAP PM & MM implementation ≈ Allocation of Defects to team members.
- CFT Lead for various improvement projects across the all Tata Power divisions.
- Maintenance of Pre-treatment Plant Equipments (Chemical Pump House, Dosing Pumps, Flocculator, Flash Mixtures, Lamella Clarifier, Air Blowers, Water Feed Pumps, DMF & PSFs, Dewatering Pumps, Back wash pumps etc.)
- Maintenance of RODM Equipments (Vessels, Booster Pumps, N-pits, RM & DM feed pumps etc.)
- Maintenance of Effluent Treatment Plant Equipments (Sludge Pumps, Equalization tanks, agitators, alum pumps etc.)
- Maintenance of Fly Ash & Bottom Ash Equipments.(Buffer Hopper, Valves,CGs, Blowers, HP & LP pumps, Pipe lines)
- Maintenance of ESP Equipments (Raping Systems, Overhauling, Pumps, Fans, Pipelines etc.)
- Maintenance of 4500MT fly ash storage silos equipments (Target box, Vent Fan, Aeration, RVF, MHV, MIV, TC etc.)
- Update and maintain SAP PM Master Data i.e., Equipment code, Functional Location, BoM.
- Creation / Changes of Maintenance plans as per user requirement
- Material / Service code creation through MDG (Master data governance).
- Maintenance data analysis for improvements i.e., PM Optimization.
- Preparation of Monthly reports as per KPIs.
- Detail Study of Requirements, Scope of work creation.

- MTTR & MTBF analysis for increasing equipment efficiency.
- Scheduling, Planning and Expediting CAPEX projects from Concept note to till Commissioning.
- Daily dashboard preparation for the Plant maintenance as well as material management for management review.
- Daily O&M Meeting with SLTs and Dept. Head
- 5S & Safety Management.
- Compliance to Internal / External Audits related to SAP PM, MM, etc.
- Operation and Maintenance of Ash Handling, Boiler Equipments & BOP.
- Associate Man power management.

Certification at Tata Power Company Mundra:

- TBEM Assessment ➤ 800 MW Simulator Training ➤ Karam Awareness Training on Scaffolding ➤
- Tata Power's Sustainability Leadership ➤ Tata Power's Environmental & Waste Management Modules
- Information Security Management - 2021 ➤ HIRA, JSA, Work at Height & Confined Space.

Special Projects Handled at Tata Power Mundra:

- Sonic Soot Blowers Implementation for ESP Maintance
- Sonic Soot Blowers Implementation for GAH Cleaning on Boiler System
- Air Blaster System For Fly Ash Silo Cleaning
- Automation for Fly Ash Conveying System from Fly ash pump house to Ash Pound \
- Direct Drive Inline Planetary Geared Motor Installation for Lamella Clarifier Flocculator System
- Cost Saving Project on Fly Ash Selling by Storage of generated ash by Enhancing fly ash storage silos.

TATA POWER SED CO. LTD.

Mar'12 - Nov' 18

Tech. Lead - Mechanical Design

• *Extensive experience in Design of Heavy Engineering of Mechanical Defense Equipments:-*

- *155 MM Advanced Towed Artillery Gun System :*
 - 1) *Platform Engineering, Design Concept, Creation of 3d Concept in Solid Edge.*
 - 2) *Self-Recovery Winch system engineering of capacity 10T to pull the loaded Truck.*
 - 3) *Ammunition System Engineering & Drafting.*
 - 4) *Outriggers Design & Engineering / Execution / Maintenance*
 - 5) *Platform 3d Concept.*
 - 6) *4 X 4 & 8 X 8 Tata & Tetra Vehicle Development as per requirement.*
 - 7) *Design Releases for Manufacturing / All Document Cell Maintenance.*
 - 8) *Preparation & Reviews of PDR, RCD, DDR, Drawings and ECN by PLM (Team center)*
 - 9) *Design & Development of Vehicle Development / Execution / Maintenance*
 - 10) *Design & Development of Jib Crane System / Execution / Maintenance*
 - 11) *Flatbed Engineering, 3d Concept & Drafting.*

• *Other Mechanical R&D Activities*

- *Design calculations by using MATHCAD tool.*
- *Modeling of whole system and sub system of the project by using 3 CAD tools like Solid edge ST8*
- *Releasing of design documents like PDR, RCD, DDR, Drawings and ECN by PLM (Team center)*
- *Releasing of long lead standard items with its ATP/ATR/SPEC documents, Drawings by PLM (Team center)*

- Contributing strategic inputs in analyzing customer's requirements and ensuring timely design delivery in conformity with quality standards.
- Extensively working on product conceptualization and product development after requirement analysis, finalizing specifications, designing, prototype development and testing activities.
- Interacting with project managers, project stakeholders and multiple business and technical teams to define and deliver project scope. Assisting in solidify the product's future and mentoring other designers.
- Working with multi-disciplinary R&D team, maneuvering around challenges in design innovation, while maintaining strong focus on commercial implications.
 - Ensuring conceptual designing and configuring the whole system as per RFP.
 - Skillfully applying core mechanical engineering like Machine designing concepts.
- Efficiently handling design team and working an in-charge of Assembly/ Manufacturing team for Proto Proven.
- Coordinating with engineering dept. for understanding their technical requirements and facilitating the internal depts. for developing technical blueprints.
- Mapping of all the internal and outsource research; technology development modules; Reviewing prior art, patentability & novelty searches and infringement analysis.

Major Projects Executed at Tata Power SED Co. Ltd Bangalore:

- 155 MM Advanced Towed Artillery Gun System ≈ Akash Air Force Launcher (AAFL)
- Pinaka Multi Barrel Rocket Launcher ≈ Integrated Electronic War Fare System (IEWS-MT)
- Design & Manufacturing of Sectorial Antenna System Assembly (SASA)
- Development of 4 X 4 & 8 X 8 Tata & Tetra Defensive Truck.

HIND HIGH VACUUM CO. PVT. LTD.

Dec'08 – Dec'12

Design Engineer**Major Projects Executed:**

- HOR.VAC.HEAT TREATMENT FURNACE WITH INTEGRAL OIL & GAS QUENCHING
- Aluminum Coating System ≈ High Vacuum Sintering Furnace ≈ Pressure Vessel Design as per ASME Standard

M/S, AVASARALA TECHNOLOGIES LTD. BANGALORE

May'06 – Dec'08

Design Engineer**Major Projects Executed:**

- Design & Drafting of Belt Conveyors ≈ Slat Conveyor ≈ Roller Conveyor ≈ Cross Lifter
- Manufacturing Releases, Co-ordination with Vendor, Stake holders ≈ *Documentation*

M/S, KARNATAKA ENGINEERING ENTERPRISES MALLESHWARM AND BANGALORE

May'05 – Apr'06

Associate Design Engineer**Major Projects Executed:**

- Design & Drafting of Shell & Tube Heat Exchangers ≈ CACA (Closed Air Circulated Air) Cooler
- CACW (Closed Air Circulated Water) Cooler

Academia

Diploma in Mechanical Engineering - KCT Polytechnic, Gulbarga ≈ 2005

Trainings Undergone/ Certifications

Gear Design ≈ DFMA (Design for Manufacture and Assembly) ≈ Math Cad

Technical Skills: SAP ≈ Solid Edge - ST8 ≈ Team Center (ERP) ≈ Math Cad ≈

Date of Birth: 1st January, 1984 ≈ **Languages Known:** English, Kannada and Hindi