



## Dr. Jayakrushna Mohanty, Ph.D.

**Name** : Jayakrushna Mohanty

**Designation** : Adjunct Professor

**Department** : Department of Basic Science and Humanities  
(JOINED THE INSTITUTE IN JULY' 2023)

**Contact** : +919937251432

**Email** : jayakrushna.mohanty@silicon.ac.in, &  
jkmohantydmj@yahoo.com

### ACADEMIC CREDENTIALS

- ✓ PhD in Mechanical Engineering from VSSUT, Burla on "Fault Diagnosis of Critical Components in Super Thermal Power Plants and Aluminum Smelters"
- ✓ M. Tech. in Manufacturing Management, BITS, Pilani
- ✓ B. Tech. (Mechanical) with Honors from UCE, Burla
- ✓ Post Graduate Diploma in Management, Indira Gandhi National Open University (IGNOU)
- ✓ Certification Course on "Condition Monitoring" from Indian Institute of Condition Monitoring
- ✓ NABET Accreditation as a Functional Area Expert In "Vibration"

### PROFESSIONAL EXPERIENCE

#### **2019 September – Till Date: Co-Founder & Director of SPARKSPOT Talent Management Service Private Limited**

- Consultancy Service to DSL Marketing, Mumbai for ROCOL Synthetic Lubricants
- Consultancy Service to Fichtner for preparation of a DPR on Ash Management for NALCO
- Consultancy service to Deloitte to prepare a PFR to establish an Aluminum Smelter & CPP for Coal India Limited
- Trainings on Operation, Maintenance, Engineering, CBM & Lubrication Management for Vedanta, BALCO, HINDALCO, HZL etc.
- Conducted an elementary course on core industry for 2<sup>nd</sup> Year students of Silicon Institute of Technology
- HSE Audit for two nos. of OMFED Plants at Keonjhar and Dhenkanal

**2006 November – 2019 August [12 Years 09 Months]: Vedanta Limited, Lanjigarh & Jharsuguda**

- Director & Vice President(Power) of 3615 MW Power Stations
- Head (Engineering), Head of Carbon Plant, Cast House and Pot Relining Project of Aluminum Smelter
- Head (Engineering & Maintenance) of Alumina Plant & Head (O & M) of Steam and Power Plant

**1984 November – 2006 November [22 Years]: National Aluminum Company Limited (Nalco), Damanjodi & Angul**

- Chief Manager (Mechanical) heading Plant Maintenance, Contract & Condition Based Maintenance (CBM) In 1200 MW Power Plant and Maintenance ERP Implementation in Power, Smelter and Alumina Plant
- Senior Manager (Mechanical) doing Plant Commissioning, Maintenance and CBM in Alumina Plant
- Auditing of Management Systems i.e. ISO-9001/14001 and OHSAS-18001

**CORE COMPETENCIES**

- Commissioning, Operation & Maintenance of Alumina and Power Plants at Nalco & Vedanta.
- Commissioning, Operation & Maintenance of Aluminum Smelter of Vedanta
- Condition Monitoring & Reliability Centered Maintenance. A Certified Vibration Analyst
- Expertise in Asset Optimization, Spare Planning, Inventory Management and Contract Management
- Power Regulatory and Advocacy with Government Bodies like SPCB, GRIDCO, SLDC, PGCIL, Factories & Boiler etc.
- Certified Vibration analyst & a Lead Auditor for ISO-9001, ISO-14001 & OHSAS-18001

**KEY ACHIEVEMENTS & SPECIAL TASKS UNDERTAKEN**

- One of the top 50 leaders of Vedanta Resources Plc. identified by Aon Hewitt study
- Conversion of 3 Units of 600 MW, Independent Power Plants(IPPS) to Captive Power Plants(CPPS)
- Construction & Commissioning of 400 KV, DC Transmission Lines of 300 Kms from Vedanta Switchyard
- Commissioning and Achieving name plate capacity of Carbon & Cast House of Vedanta Limited

- Invited by GM(NTPC) to resolve High Vibration Problem of Bowl Mill-1B (Stage-1, 500 MW) Motor in NTPC
- Redesigning of Slurry Pump Shafts with improved specifications to prevent failures in NALCO, Damanjodi
- Published four Journal Papers in International Journals and Six Seminar Papers

#### **TRAININGS UNDERTAKEN**

- Five Months Training in Mechanical Maintenance of Alumina Plant Equipment at Aluminum Pechiney, France
- Vibration Technology-I & Vibration Analysis-II by IRD Mechanalysis, UK
- Design & Maintenance of Tribological Systems at NIT, Rourkela
- Training on RCM by NPC
- Leaders Connect Program by Vedanta