



# PRADIP KUMAR PATTNAIK

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Aspiring for a senior managerial position to head Power Plant Operations, Maintenance, Project Management, Erection & Commissioning with a reputed organisation.

Preferred Industry: Power Industry/ Material Handling

Preferred Location: ANYWHERE IN INDIA

## PROFESSIONAL PROFILE

- ❖ A seasoned professional with 42 years' experience in Power Plant Operations, Maintenance, Project Planning & Management as well as Erection & Commissioning, O&M of Material Handling Plant, Aluminium Smelting maintenance, Consultancy in Steel Plants, Expert advice on skill development, Providing training on industrial safety and power plant O & M.
- ❖ Presently working as Senior Consultant with Institute of Quality Environment Management Studies, Bhubaneswar and as Power Plant Expert for HAZOP studies with Bureau Veritas India Ltd.
- ❖ Merit of having served in different capacities in all three units of NALCO namely CPP, Mines & Refinery Complex & Smelter Plant and in Nalco's corporate office to head the TQM department.
- ❖ Dexterity in heading Power Plant commissioning as well as Operation & Maintenance of Material Handling Plant, Power Plant & Cast House.
- ❖ Adroit in managing overall operations and maintenance activities in plant with a view to enhancing the efficiency of operations, eliminating obsolescence and achieving cost reduction.
- ❖ Adroit in heading operations & maintenance of 120 MW x 10 units of Captive Power Plant / NALCO and 2 \* 80 MW Captive Power Plant at HZL Dariba, Rajasthan.
- ❖ Experience in managing a wide spectrum of machinery, equipment & utilities, while curtailing the operational costs & expenses.
- ❖ Deft in swiftly ramping up projects within time, cost and quality parameters.
- ❖ Successful track record in the erection & commissioning of power plants, and bringing down plant breakdown & achieving annual costs savings.
- ❖ An effective communicator with excellent relationship management skills and strong analytical, problem solving & organisational abilities.
- ❖ Providing consultancy to Nilachal Ispat Nigam Ltd, Jajpur, MESCO Steel, Jajpur, Brahmani River Pallets Ltd, Jajpur, Odisha for process improvement and adopting ISO:9001, ISO:14001 and OHSAS:18001 systems.
- ❖ Worked in TATA Steel, Kalinga Nagar, Odisha to guide the people for smooth O & M for 3x67.5MW Gas based power plant on behalf O & M Solutions, Odisha.

## CAREER HIGHLIGHTS

Feb'76 – Aug'76	Junior Engineer (Mechanical)	Food Corporation of India
Sep'76 – Nov'84	National Mineral Development Corporation Limited. (O&M of Material Handling)	
<b>The Growth Path</b>		
Sept'76 – Aug'77	Management Trainee	
Sept'77 – Sept'80	Asst Engineer (Mechanical) / O&M of Material Handling Plant	
Sept'80 – Nov'84	Executive Engineer (Mechanical)	
Dec'84 – May' 2013	NALCO, Angul	
<b>The Growth Path</b>		
Dec'84 – Dec'87	Assistant Manager (Mechanical) looking after Erection & Commissioning of Power Plant	
Jan'88 – June'92	Deputy Chief Engineer (M) / O&M looking after commissioning of Power plant	
July'92 – June'95	Senior Manager (M) / O&M of Power Plant	
Jul'95 – Apr'97	Chief Manager (M), / O&M of Steam Generation Plant in M&R Complex, Damanjodi	
Apr'97 – Mar'01	Chief Manager (M), CPP, Angul	
Mar'01 – Nov'06	Dy. General Manager (Mechanical) - CPP	
Nov'06 – Oct'07	Dy. General Manager (Mechanical) – Cast House / Smelter	
Nov'07 – Aug'09	General Manager (Operations & Maintenance)	
Aug'09 – Sept 11	General Manager (Captive Power Plant)	
Oct'11 – May'13	General Manager (Total Quality Management) NALCO, Bhubaneswar	

Aug'13 to 31.08.2015

Wartsila India Ltd.

Aug'13 - 31.08.15

General Manager (Power Plant) HZL Dariba, Rajasthan.

<b>01.12.15 to Till date</b>	<b>Senior Consultant, Institute of Quality and Environment Management Studies, Bhubaneswar proving consultancy and training to Steel Plants, Power Plants, Refractory &amp; Ceramic Plants etc.</b>
<b>12.07.16 to 07.02.2017</b>	<b>Sr GM, Power plant at TATA Steel, Kalinga Nagar, ODISHA.</b>
<b>20.06.17 to Till date</b>	<b>Appointed as Power Plant Expert with BV to carry out HAZOP studies and FMEA of different equipments.</b>

#### **Areas of Expertise:**

##### **Plant Operations & Project Management**

- ⇒ Planning, scheduling and ensuring smooth Plant operations, within budgetary limits, and as per Standard Operating Procedures (SOP).
- ⇒ Formulating budgets, administering resources, and reporting progress on a regular basis to the superiors and taking necessary steps to make up for any variances in the achieved v. actual targets.
- ⇒ Reviewing existing processes and initiating measures for enhancing productive capacity as well as productivity, within same budgetary limits (Value Engineering).
- ⇒ Managing projects for the overhauling and commissioning of equipments and utilities for enhancing operational capacity and seamless functions, as well as OEE (Overall Equipment Effectiveness) monitoring.

##### **Operations & Maintenance**

- ⇒ Developing and implementing plans & schedules for Maintenance Operations and Annual Turnarounds with focus on optimum utilisation of manpower and material.
- ⇒ Coordinating & managing troubleshooting & breakdown/ preventive/ shutdown maintenance for curbing downtime to a minimum level.
- ⇒ Analysing major breakdowns & preventive maintenance findings and implementing corrective action plans.
- ⇒ Analysing the Raw water, DM water & cooling tower water quality for better plant performance.

##### **Process Enhancement & Cost Saving Initiatives**

- ⇒ Ascertaining areas of improvement and recommending process modifications to enhance operational efficiencies of the systems.
- ⇒ Implementing energy conservation and efficiency measures through monitoring consumption pattern and accordingly controlling utilities consumption demands.
- ⇒ Optimum use of manpower and sizing as per the requirement.

##### **Quality Assurance & Compliance**

- ⇒ Participating in quality management system audits and maintaining relevant documents for future reference.
- ⇒ Ensuring implementation of energy audit recommendations for enhancing processes.
- ⇒ Fully involved in asset optimisation of CPP, HZL, Dariba.
- ⇒ Providing consultancy and training on ISO and OHSAS systems to different industries.

##### **Manpower Management**

- ⇒ Leading a team of engineers, foremen and skilled as well as unskilled workforce, ensuring high motivation levels on the floor.
- ⇒ Coordinating and imparting training in technical and managerial skills and safety for the workforce.
- ⇒ Devising and implementing new training methodologies to ensure high levels of training effectiveness.
- ⇒ Leadership in competency assessment and training need identification.

#### **Notable Milestones:**

- ⇒ Meticulously led installation of CBD Heat Recovery System in Unit# 6, NALCO
- ⇒ Commissioning of High Concentration Slurry Discharge (HCSD) system for ash disposal.
- ⇒ Steered Retrofitting of High Performance Milling System (HPMS) in bowl mills.
- ⇒ Successfully headed replacement of Analogue Control System (ACS) of 6 old units with Distributed Control System (DCS)
- ⇒ Ash Pond – 1 dyke raising from 104 MRL to 107 MRL in a record time of 10 months.
- ⇒ Merit of having established Energy Conservation Cell and successfully conducted internal energy audits for improvising the performance.
- ⇒ Member of Interview Jury Panel for 'Boiler Operation Engineer' (B.O.E) Examination conducted by Department of Factories & Boilers, Govt. Of Orissa for last 3 years & is being nominated for another 3 years.
- ⇒ Expert committee member on Power Generation & Distribution by Power India-2009.
- ⇒ Functioned as Head of Captive Power Plant 10 x 120 MW situated in the District of Angul / Orissa of a Navaratna Public Sector Undertaking in India.
- ⇒ Pioneer in establishing Energy Conservation Cell.
- ⇒ Monitoring Water Chemistry & establishing operating practices for operating with closure of Continuous Blowdown System in Boilers thereby saving huge cost.
- ⇒ Achieved reduction in un-burnt carbon in BAH & Fly ash and setting new benchmark as a part of cost reduction measure.
- ⇒ Developed In house Ammonia dosing system for reduction of Stack emission in ESPs.
- ⇒ Achieved annual saving of Rs 90.45 Lakh / Unit by installing Online Condenser Cleaning System.
- ⇒ Accredited with CII Award for Energy Conservation (ENCON – 2007-08).
- ⇒ Successfully Established Consolidated Integrated Management system in all units of NALCO in 2011-12.
- ⇒ Established Energy management Systems in CPP, NALCO by due date in January 2013.

#### **HAZOP STUDIES:**

- 1. Successfully completed HAZOP studies of 2x660MW power plant at TPCIL, Nellore, AP in the moth of June, 17.
- 2. Carried out HAZOP studies at 2x660MW power plant of SGPL, Nellore, AP in the month of September, 17.

**EMEA Of EQUIPMENTS:** Centrifugal, Screw, Reciprocating Compressors, Cooling Tower Fans, CW & ACW Pumps etc. This includes problem analysis, trouble shooting, preventive maint, predictive maint ,capital overhauling, component replacement, unhealthy machine replacement, reliable center maint, regular dew point measurement of the dryer etc.

#### KEY PROJECTS HANDLED

- ⇒ Filling of Abandoned Mines Void at a distance of 25 KM with Lean Ash Slurry.
- ⇒ 3<sup>rd</sup> Coal Yard Commissioning with separate Stacker & Reclaimer.
- ⇒ Commissioning of Unit 10 (120 MW capacity) under PH-II expansion.
- ⇒ Retrofitting of ESPs of 5 old units at an estimated cost of Rs. 115 Crores.
- ⇒ Installation of wagon tippler for unloading BOXN wagons with E Auction Coal.

#### PROFESSIONAL AFFILIATIONS

- ⇒ Institution of Engineers (India) Limited.
- ⇒ NITRAA (NIT Rourkela Alumni Association) – Talcher Angul Chapter.
- ⇒ Orissa State Productivity Council – Talcher Chapter.

#### TRAININGS ATTENDED

- ⇒ Advance Management Programme in India & Abroad by M.D.I, Gurgaon in Aug & Sept 2010.
- ⇒ Energy Conservation & Efficiency in U.K from Jan-May 1994.
- ⇒ Energy Conservation & monitoring conducted by TERI, Bangalore for 1 week in Sept 1995.
- ⇒ Attended Boiler Familiarisation program at BHEL , Trichy for a week in 1987.
- ⇒ Attended Boiler Auxiliaries Program at BHEL, Ranipet for 15 days in 1985.
- ⇒ Attended 1 month training program on turbine, generator, pumps & Auxiliaries at BHEL, Hyderabad in 1986.
- ⇒ Attended 02 days training on Leading Safety Efforts by DU PONT in 2014.
- ⇒ Lead Auditor Training on ISO: 9001:2015 version from 18.01.2016 to 22.01.2016 and have qualified as a Lead Auditor.

#### ACADEMIA

<b>PG Diploma in Business Administration</b>	Annamalai University	1998
<b>B.Sc.Engineering (Mechanical)with Honours</b>	R.E.C., Rourkela (Currently Known as NIT, Rourkela)	1975

#### PERSONAL DETAILS

<b>Date of Birth</b>	:	5 <sup>th</sup> May, 1953
<b>Address</b>	:	HIG-228,Phase-7,Sailashree Vihar,Bhubaneswar-751021, Odisha
<b>Languages Known</b>	:	Oriya, Hindi & English
<b>Passport No.:</b>	:	N7567363 valid till 22 <sup>nd</sup> May,2021.