



BIMALANANDA SENAPATI

ALUMINA SPECIALIST, INDIA

SKILL SUMMARY

Technical Achievements

- Presentation on "Descaling, Scheduling & Planning on Heat Exchangers" at Descaling Workshop Aughinish Alumina Plant, Ireland.
- Presentation on "Study on Tertiary Cyclone in Hydrate Classification Circuits" at Alumina Quality International Workshop, Perth, Australia.
- Patented on "Silica Removal System from Bauxite".
- Also, obtained a patent on the development of Red-Mud Management through better red mud filtration units by improving solid percentage to 78% - 80%.
- Presentation on Process Developments in productivity improvements at International workshops like - Alumina Quality International Workshop, Light Metal organisation, ISCOBA, IBAAS, etc..
- Acquired trainings in "Know-How of Operational Management" & "Finance for Non-Finance" from reputed institutions like IIMs and other subject experts.

Plant Exposures

- Aughinish Alumina Plant, Ireland.
- San Ciprian Alumina Refinery, Spain.
- Queensland Alumina Ltd, Australia.
- Visited Gove Alumina Plant, Australia.
- Worsley Alumina Refinery, Australia.
- Alunorte Alumina Refinery, Brazil.
- Visited many refineries in Jamaica and China for adaptation of the best practises of the respective plants for improvement of operational cultures.
- Associated with Guiyang Aluminium Magnesium Design & Research Institute (GAMI) for process design of expansion project at Lanjigarh Alumina Refinery.
- Interaction with Worley Parson Experts for process optimization of Lanjigarh unit.

PERSONAL INFO

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EDUCATION

Masters Of Technology
CHEMICAL ENGINEERING
Indian Institute of Technology, Kharagpur

Bachelor Of Technology
CHEMICAL ENGINEERING
Calcutta University, Kolkata

Project Manager*
1986 - 1992 *NALCO Limited.*

- Commissioning of the Greenfield project Alumina Plant.
- Worked as a shift in-charge for the day-to-day operations at Damanjodi plant & Contributed in process control.
- Involved in Brownfield expansion of Alumina plant under collaboration of EIL
- Technical Interaction with Alumina Pechiney, France

General Manager*
1992 - 2004 *INDAL(ALCAN Group), now Hindalco.*

- Contributed in preparing Feasibility report for Utkal Alumina Greenfield project with technology partners - ALCAN International, Hydro Aluminium & TATA.
- Involved in detailed engineering of Utkal Alumina Greenfield project with EIL.
- Performed as the Operation In-Charge for Alumina refinery at Muri.
- Incorporated new technologies and innovations in order to revive the Alumina refinery at Muri from being declared a "sick" [loss-made] company to one of the best in the industry.
- Development of special Hydrates and Alumina.
- Incorporated quality processes like TPM (Total Productive Maintenance), WCM (World Class Manufacturing) & TQM (Total Quality Management) to improve the operational culture in the company.

Chief Operating Officer*
2004 - 2018 *Vedanta Ltd.*

- Worked as a Process Expert for conceptualisation, troubleshooting and risk mitigation planning of the Lanjigarh Alumina Project.
- Developed the Operational Organisation with introduction of training plans for the employees.
- Commissioning of the Greenfield project with the fastest ramp-up to the planned capacity achievement.
- Achieved plant stabilisation with outsourced bauxite in spite of the lack of Niayamgiri local bauxite as per initial design.
- De-bottlenecking of plant capacity from 1.4 million to 2 million with incorporation of latest technology and capacity utilisation with minimum investment.
- Developed an in-house simulation software for operating different sources of Bauxite for maximum output.
- Patented 2 technologies in Red mud filtration unit and Silica removal process from Bauxite.
- Developed the best safety culture by incorporating many process safety systems and behavioural bases safety managements.
- Initiated community development with close association with government and other bureaucrats.

WORK EXPERIENCE