



# RAJESH DABI SHEKHWAT

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## KEY SKILLS

- Pyro Metallurgy Operation
- Electro refinery Operation
- Melting & Casting Operation
- Procurement Planning
- Project and commissioning of equipment
- Quality Processes and product
- Production planning
- DuPont safety system
- Molten Metal Handling
- EOT crane Handling
- Confined Space Entry Safety
- Manpower Management
- Team Building & Leadership

## BENCHMARKING VISITS

### 2017

- India International Gold Convention, Goa

### 2022

- Titan Company Limited - Jewellery Division, Rudrapur, UK

## HOBBIES

- Watching TV
- Running
- Sports

## PERSONAL SUMMARY

Proactive Chemical engineer with 14.5 years of combined experience in project, commissioning and systematic plant operation seeking an opportunity to work as a process engineer, with a view to utilize my experience in a renowned organization. Having good interpersonal skills with strong inclination towards continuous learning.

## PROFESSIONAL EXPERIENCE

Year	Designation
May 2023 - June 2023	<b>Manager, Lead smelting &amp; Refining, Production Dept.</b> Axora Resources Limited, Chittoor, AP
July 2019 – May 2023	<b>Production Manager</b> , Pyro section, Silver Refinery Plant, PMP, HZL
May 2016 - June 2019	<b>Area In charge</b> , Pyro & Dust collection section, Silver Refinery Plant, PMP, HZL
Mar 2012–April 2016	<b>Shift Engineer</b> -, Pyro section, Silver Refinery Plant, PMP, HZL
Sep 2011- Feb 2012	<b>Project &amp; Commissioning – Team Member</b> , Silver Refinery Plant, Pantnagar Metal Plant, HZL
Sep 2010 - Aug 2011	<b>Project &amp;Commissioning – Team Member</b> , Leaching & Purification Plant Hydro III, DSC Zinc, HZL
Feb 2009 - Aug 2010	<b>Shift Engineer</b> , Leaching Plant Hydro-I &II , CLZS,HZL

## CAREER HIGHLIGHTS

- Making of Lead Ingot through Scrap battery paste, Lead dross by the rotary furnace, Vacuum distillation process & lead refining process (Axora Resources Limited)
- Making of Antimony, Copper & Tin alloy through Antimony dross, Copper dross & Tin dross by the refining process (Axora Resources Limited)
- Streamlined commissioning of Silver Refinery Unit for Finished Goods (FG) in six month with capacity of 350 MTPA
  - Erection & commissioning of 14 MT Rotary Noble furnace (Reduction/Melting process)
  - Erection & Commissioning of Two Rotary Cupellation furnace each furnace capacity 36 MT (Oxidation Process)
  - Erection & Commissioning of Five electrolytic cell's (Electrolysis Process)
  - Erection & Commissioning of two medium frequency furnace for Silver melting & Casting (Induction furnace)
  - Erection & Commissioning of Dust collection & handling system (Bag Filter)
- Enhance capacity of Silver Production from 350 MTPA to 600 MTPA in the year of 2013-2014
  - Erection & Commissioning of 2 MT Vacuum distillation furnace (Junker furnace)
  - Erection & Commissioning of 4 MT Bottom blow Oxy Cupellation furnace
  - Erection & Commissioning of ACM (Anode Casting Machine)
  - Erection & Commissioning of MMTT (Molten Metal Transfer Trolley)
  - Erection & Commissioning of 4 additional electrolytic cell's
  - Erection & Commissioning of Two Induction furnace with the capacity of 300 KG



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## ACADEMICS

### 2008

B.Tech. - Chemical Engineering (83.5%), Anna University, Tamilnadu

### 2004

Senior Secondary School (85%), Taigor Public School, Jaipur, Rajasthan

### 2002

Higher Secondary School (82%),  
Taigor Public School,  
Jaipur, Rajasthan

## PERSONAL DETAILS

- Date of birth – 26<sup>th</sup> April 1989
- Marital Status – Single
- Nationality – Indian
- Language known – Hindi, English
- Permanent Address – House No. 124/204, Agarwal Farm House, Thadi Market, Madhyam Marg, Mansarovar, Jaipur, Rajasthan (302020)

## CAREER HIGHLIGHTS

- Enhanced capacity of Silver Production from 600 MTPA to 800 MTPA in the year of 2019
  - Debottlenecking of Electrolytic cells capacity increases 2.7 MT to 3.240 MT per day.
  - Erection & Commissioning of 2 EMEW (Electro Metal Electro Wining) Cell's
- Increased Silver first pass yield from 80 % to 92 %
- Increased over all Silver Recovery from 96 % to 99%
- Achieved ever highest silver production 714 MT in the year of 2022-2023
- Developed value added products 1 Kg Silver Bar, Silver Powder & Silver Nitrate Crystals
- Internal auditor for VSAP (Vedanta Sustainability Assurance Programme), AO (Asset Optimization), Quality management, 5's system for PMP, HZL
- Quality champion for finished good
- Erection & Commissioning of Leaching & Purification, Hydro-III, DSC, HZL

## ROLES & RESPONSIBILITIES

- Responsible for controlling a manpower of 100 contract employees and 15 of our company employees.
- Drafting SOPs (Standard operating procedure), revising them on regular basis and implementing by regular classroom as well as on field training to team.
- Conducting HIRA study, Job safety analysis, Risk assessment and maintaining safety & environmental practices.
- DuPont safety system
- Monthly production, target finalization and annual shut down planning.
- Daily Production MIS preparation and booking in SAP
- Process optimization
- Procurement planning of consumables and material management.
- Identifying and implementing various improvement projects on cost reduction, quality improvement and system enhancement.
- Daily monitoring of process parameters and maintaining them within specified limits.
- Metal accounting and Metal balance.
- SAP R/3 transactions
- PV audits and recovery calculations
- Fulfilling the customers requirement - Quality of the finished good

## REFERENCES

- Mr. Raj Maurya, Deputy Manager, PMP, HZL, Mobile No. (9068568353)  
Mr. Shashank Joshi, Associate Manager, PMP, HZL, Mobile No. (7742610694)

Sensitivity: Public (C4)