

# Resume Dr. Ashok Nandi

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## **Personal Details**

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## **Academic Background**

### **1979 – 1984: Ph. D. Geology & Mineralogy of Bauxite in Russia (earlier USSR)**

Thesis: Geological structure, mineralogical composition, genesis and optimum parameters of exploration of Sapparla Bauxite deposit, Eastern Ghats, India

**Moscow State Geological and Prospecting Institute, Russia.** Thesis defended successfully in the first attempt.

Full scholarship of Ministry of Education & Social Welfare for study in Moscow, Russia

### **1973 – 1976: Master Technology in Applied Geology, 1st Class**

Sagar University, Madhya Pradesh state, India

### **1970 – 1973: B.Sc. Geology, Chemistry, Math & English, 1<sup>st</sup> Class**

Sagar University, Madhya Pradesh state, India

## **Employment History**

**2012- 2020:** *Presently providing geological & metallurgical consultancy to Rio Tinto, Alufer Mining, Axis Minerals, AGB2A, Dynamic Mining and Sierra Minerals Holding/VIMETCO in their bauxite-alumina projects. Also involved in setting up a small alumina refinery in Sierra Leone. In the recent past worked for VEDANTA Aluminium, BHP-Billiton, GAC-EGA, Ma'aden and scores of bauxite exploration and mining companies as consultant. Also, President of International Bauxite, Alumina & Aluminium Society (IBAAS) and Director of Mineral Information & Development Centre.*

**2007 – 2012:** *Senior Geological Consultant, BHP Billiton*

Worked at Bunbury, WA, Australia

Worsley Alumina Refinery as Geo-metallurgist

Guinea, West Africa

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BHP Billiton Australia Aluminium Pty Ltd

**2002 – 2007:** Director & Key Personnel

Mineral Information and Development Centre (MIDC), India

Provided consultancy to MFC Commodities, BHP Billiton and other companies in India and abroad

**2000 – 2006:** *Technical Consultant*

MFC Commodities GmbH, Minerals and Metal Division, Austria

**1990 – 2000:** *Senior Scientist*

Jawaharlal Aluminum Research Development and Design Centre (JNARDDC)

Nagpur, India

**1989 – 1990:** *Technical Secretary to Managing Director*

Bharat Aluminium Company Ltd. New-Delhi, India

**1984 – 1989:** *Research Geologist*

R&D laboratory, Bharat Aluminium Company Ltd.

Korba, Madhya Pradesh, India.

**1979 - 1984:** *Ph.D. Scholar in Moscow, Russia*

**1977 - 1979:** *Exploration Geologist*

Bharat Aluminium Company Ltd, India

**1977:** *Research Scholar*

Council of Scientific & Industrial Research(CSIR), India

**1976:** *Student Geologist*

### **Experience**

#### **2012- Present**

Presently working as an independent consultant for several multinational companies including Rio Tinto, Alufer, Axis Mineral, AGB2A, Vimetco/Sierra Minerals Holding Ltd. for evaluation of their bauxite deposits and mines. Also associated in setting up a small alumina hydrate plant in Sierra Leone as owner's team of SMHL/VIMETCO. In the past worked for VEDANTA Aluminium, EGA-GAC, Ma'aden, Saudi Arabia and other bauxite exploration-mining companies in world- wide projects. Providing exploration, geological, mineralogical, metallurgical and resource estimation consultancy to these companies in developing bauxite mines for alumina refinery and export. Mainly working to guide and provide JORC compliance of exploration and resource estimation of bauxite deposits. Presently nominated as President of International, Bauxite, Alumina and Aluminium Society.

#### **2007 - 2012 -BHP Billiton, Australia**

Involved in feasibility study of BHPB's GAC Alumina project of Guinea. Worked as Geo-metallurgist at Worsley alumina refinery and Boddington bauxite mine of Australia. Carried out following work in Guinea (Boffa Santou Exploration Project)

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- Coordinated the exploration activities in country
- Coordination of resource estimation
- Developed and documented reports
  - Density testwork
  - Beneficiation
  - Exploration manual
  - Internal laboratory reference samples
- Carried out QAQC work
- Also worked on mineralogy, beneficiation aspects and physico-mechanical properties of Australian and Guinean bauxite.
- Coordinated with various Australian labs and consultants in preparation of bauxite resources and beneficiaiton report.
- Infrastructure and refinery location work

## Guinea Alumina Corporation (GAC) Bauxite/Alumina Refinery project (33% BHPB)

- Responsible for field activities in Guinea and preparation of geological and mining definition phase study reports for setting up 3.3 Mt/annum alumina refineries.
- Coordinated LiDAR survey work in Guinea and intensively used the DTM for geological work, infrastructure planning and resources estimation
- Resource Range Analysis

## Boddington Bauxite Mine and Worsley Alumina Refinery

- Geo-metallurgical (GEOMET) project to optimise bauxite grade for processing in Worsley alumina refinery.

During this period actively participated in the BHP Billiton Competent Person workshop and various HSEC and risk analysis activities. Intensively involved in the preparation of various maps, plans, geological sections, strip logs etc.

## 2002 - 2006

- Consultant to BHP-Billiton International Services Limited in India.
- Geological studies and resource estimation of Eastern Ghats bauxite deposits of India for greenfield alumina refinery.
- Obtained JORC competency.
- Worked on resource estimation of Karlapat bauxite deposit at various cut-off values of alumina – silica, optimised the grade and prepared conceptual study report as per JORC guidelines.
- Was involved in bauxite and iron ore export from India

## 2000 - 2006

- Started Bauxite mining and export company in Gujarat, a subsidy of MFC Commodities GmbH.
- Supervised a team of mining engineers, geologists and chemists for bauxite mining, beneficiaiton, quality control and export.
- Successfully exported quality bauxite from Gujarat and Goa, India.
- Set up bauxite based high strength proppant plant as Joint venture company in Pune, India.
- I was also involved in evaluation of iron ore deposits of Goa and Karnataka. Supervised the quality of iron ore for export from India to China.

## 1990 - 2000 Jawaharlal Aluminum Research Development and Design Centre (JNARDDC)

- Mainly involved in conducting R&D work in bauxite-alumina field of all over India,
- Established computer database on bauxite

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- Installation of laboratory facilities for testing bauxite, red mud and alumina. Frequently visited various laterite-bauxite deposits/mines of India and abroad suggesting measures for increasing production and productivity.
- Successfully beneficiated Los-Pijiguaos bauxite of Venezuela as well some low grade bauxites of India.
- Coordinated various bauxite and red mud projects.
- Worked on computer mine planning software (DATAMINE).

## **1989 - 1990** Bharat Aluminium Company Ltd.

- Monitored overall performance of bauxite mines, alumina and aluminium plants.
- Strategic advisor to Chairman in technical meetings.

## **1984 - 1989** Bharat Aluminium Company Ltd

- Coordinated the work of various technical committees.
- Assisted the General Manager in monitoring the performance of bauxite mines, alumina plant & aluminium smelter
- Techno-economic assessment of bauxite/laterite deposits for alumina production.
- Beneficiation studies of low grade ores
- Quality control troubleshooting
- Processing value of bauxite for alumina production
- Impact of mining on environment studies

Published several technical papers on the above subjects and participated in conferences related to various ores and minerals.

## **1977 - 1979** Bharat Aluminium Company Ltd.

- Exploration for Eastern Ghats bauxite deposits of India
- Ore characterisation
- Mine planning

## **1977** Council of Scientific & Industrial Research (CSIR)

Techno-economic assessment of cassiterite deposits of Bastar, Madhya-Pradesh, India.

## **1976**

Prospecting and exploration of copper ore, Rajasthan(India) as a student

## **Languages Known:**

English, Russian, Hindi and Bengali: Fluent

Learning French

## **Other Training**

ArcGIS and Target software user. Proficiency: Moderate

BHP Billiton Competent Person training (2007)

## **Professional Affiliations**

The Australasian Institute of Mining and Metallurgy (AusIMM), Member (2006)

Mining, Geological and Metallurgical Institute of India (MGMI), Life Member (2005)

International Committee for Study of Bauxites, Alumina and Aluminium (ICSOPA), Member (2002)

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Indian Institute of Mineral Engineers (IIM), Life member (2001)

Mining, Geological and Metallurgical Institute of India (MGMI), Member (1977)

### **Published Work**

Published more than 60 scientific/technical papers on geology, mineralogy, geochemistry and various other aspects of mining, processing in International, Russian and Indian journals.

Edited proceedings of International seminars on Mineral Business Development (2004 & 2006) and ICSOBA and IBAAS proceedings on Bauxite, Alumina & Aluminium starting from 2005. Most recently edited proceedings of IBAAS conference held in Guiyang, China during September, 2019. Details of publications available upon request.

### **References**

Available upon request