

Occurrences of Manganese Mineralization in the Boringpadar-Amath Sector, Eastern Ghats Mobile Belt, Eastern India

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Abstract: In this paper, we have reported two bands of manganese ore and four bands of manganiferous quartzite for the first time to the southeast of Boringpadar and northeast of Amath area belonging to the Eastern Ghats Mobile Belt, Eastern India. The main purpose of the study has brought to light an array of manganese mineralization with promising values, hosted in manganese ore and manganiferous quartzite. The manganese ores are represented by bluish-black to brownish-black, massive to foliated, metallic luster, nodular, and botryoidal forms whereas the manganiferous quartzite are hard, white to black, highly jointed, fractured, and brecciated which occurs at the contact of khondalite. The manganese ore and manganiferous quartzite bearing horizons are dominantly observed between the calc-silicate granulite and garnetiferous quartzite of Khondalite Group, indicating the stratigraphic, lithology, and structure controls. Bands of manganese ore and manganiferous quartzite are delineated which shows a predominantly syngenetic type of deposit but, at places, the epigenetic nature of mineralization is also noticed. Braunsite, birchite, jacobinite, and manganite are represented as the primary minerals which are attributed to the high-grade metamorphic minerals whereas the secondary minerals are made up of psilomelane, cryptomelane, pyrolusite, and goethite and are formed in the low grades of metamorphism. The analytical results of bedrock samples show high values of Mn, Fe (total), SiO_2 , Al_2O_3 , CaO and P_2O_5 . The values of Mn and Fe (T) vary from 0.05 to 28.18 wt. % and 1.87 to 56.31 wt. % respectively whereas the Mn value ranges from 0.05 to 27.77 wt. % and the Fe (T) value ranges from 2.11 to 46.85 wt. % in the pitting/trenching samples.

Keywords: Manganese mineralization, Mineralogy, Eastern Ghats Mobile Belt (EGMB), India

1. Introduction

Manganite (MnO), purpurite (MnPO_4), pyrolusite (MnO_2), rhodonite [$(\text{Mn}, \text{Fe}, \text{Mg}, \text{Ca}) (\text{SiO}_3)_2$], rhodochrosite (MnCO_3), and sugilite [$\text{KNa}_2 (\text{Fe}, \text{Mn}, \text{Al})_2 \text{Li}_2 \text{Si}_4 \text{O}_{10}$] are represented by manganese minerals. They are also found in association with mineraloids like psilomelane and wad and are an important element for steel and non-alloying industries (Gandhi, 2010; Singh and Biswas, 2017). In Archean greenstone belts, the manganese mineralization is mainly associated with the association of Banded Iron Formation (BIF) and are mostly reported from the Barberton greenstone belt of South Africa, the Isua Formation of Greenland, the Superior and Slave provinces of Abitibi belt, Canada, the Yilgarn and Pilbara blocks of Western Australia, the Bababudan and Chitradurga belt of South India and the Iron Ore Group (IOG) of the Singhbhum Craton (Goodwin, 1973; Ramakrishnan et al., 1976; De Wit et al., 1980; Ambrose and Wilson, 1981; Chadwick et al., 1981b; Condie, 1981; Hallberg and Glikson, 1981; Dimroth et al., 1982; Gross, 1986; Machado and Carneiro, 1992; Myers and Kröner, 1994; Saha, 1994; Teixeira et al., 1996; Martin et al., 1997; Ghosh et al., 2015; Mishra et al., 2016). The manganese accumulations predominantly occur in the Archean and Proterozoic periods and few occurrences were also noticed in the Phanerozoic Era. The formation of manganese rocks and ores on many geological boundaries was closely connected with global climatic, tectonic restructurings, and biological events (Kuleshov, 2017). However, manganese ores were also derived from the volcanogenic and/or, hydrothermal and freshwater sources which are also reported from the

different parts of the world (Achary et al., 1994; Roy, 2000, 2006; Mishra, 2015).

In Odisha, the manganese ore is found to occur in three stratigraphic horizons and spatially distributed wide apart i. e. IOG in Bonai-Konjhar belt, Gangpur Group in Sundergarh, and Eastern Ghats Mobile Belt in Rayagada-Kalahandi-Bolangir belt (Spencer, 1948; Sen, 1951; Ray, 1954; Mohapatra and Bagchi, 1961; Murty and Ghosh, 1971; Dasgupta et al., 1999; Mohapatra et al., 2009; Mishra et al., 2016). Manganese ores are predominantly reported in the Vizianagaram-Visakhapatnam sector in Andhra Pradesh belonging to the EGMB (Straczek, and Krishnaswamy, 1956; Krishna Rao, 1963; Rao, 1969; Siddiquie and Raza, 2008; Siddiquie and Shaif, 2015; Siddiquie et al., 2015). In contrast, only a few such occurrences have been reported from the EGMB in Odisha by the Geological Survey of India (Jayaram, 1956; Jena and Devdas, 1994; Dash et al., 2005; Dash and Behera, 2009; Yadav et al., 2017).

The main focus of the study is aimed to assess the manganese mineralization based on field observations, ore petrography studies, and geochemical inputs in the Boringpadar-Amath sector in the Eastern Ghats Granulite Belt belonging to the EGMB, Odisha, Eastern India. In this paper, two bands of manganese ore (200m X 50-70m; 250m X 40m) and four bands of manganiferous quartzite (150m X 10m; 230m X 10m; 150m X 5m; 100m X 5m) have been delineated in detail for the first time to the southeast of Boringpadar and northeast of Amath areas.

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Table of Contents Occurrence Of Manganese In Eastern Arroo

1. Understanding the eBook Occurrence Of Manganese In Eastern Arroo
 - The Rise of Digital Reading Occurrence Of Manganese In Eastern Arroo
 - Advantages of eBooks Over Traditional Books
2. Identifying Occurrence Of Manganese In Eastern Arroo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Occurrence Of Manganese In Eastern Arroo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Occurrence Of Manganese In Eastern Arroo
 - Personalized Recommendations

- Occurrence Of Manganese In Eastern Arroo User Reviews and Ratings
- Occurrence Of Manganese In Eastern Arroo and Bestseller Lists
- 5. Accessing Occurrence Of Manganese In Eastern Arroo Free and Paid eBooks
 - Occurrence Of Manganese In Eastern Arroo Public Domain eBooks
 - Occurrence Of Manganese In Eastern Arroo eBook Subscription Services
 - Occurrence Of Manganese In Eastern Arroo Budget-Friendly Options
- 6. Navigating Occurrence Of Manganese In Eastern Arroo eBook Formats
 - ePub, PDF, MOBI, and More
 - Occurrence Of Manganese In Eastern Arroo Compatibility with Devices
 - Occurrence Of Manganese In Eastern Arroo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Occurrence Of Manganese In Eastern Arroo
 - Highlighting and Note-Taking Occurrence Of Manganese In Eastern Arroo
 - Interactive Elements Occurrence Of Manganese In Eastern Arroo
- 8. Staying Engaged with Occurrence Of Manganese In Eastern Arroo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Occurrence Of Manganese In Eastern Arroo
- 9. Balancing eBooks and Physical Books Occurrence Of Manganese In Eastern Arroo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Occurrence Of Manganese In Eastern Arroo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Occurrence Of Manganese In Eastern Arroo
 - Setting Reading Goals Occurrence Of Manganese In Eastern Arroo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Occurrence Of Manganese In Eastern Arroo
 - Fact-Checking eBook Content of Occurrence Of Manganese In Eastern Arroo

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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