

Curriculam Vitae

of

Dr. B. K. MOHAPATRA

I. Personal Information

1	Name	:	**Dr. Birendra Kumar Mohapatra**
2.	Fathers Name	:	Late Dr. L. K. Mohapatra
3.	Sex		Male
4.	Date of Birth	:	April 15, 1952
6.	Marital Status	:	Married with two sons
6.	Permanent Address		Teli Sahi, Ranihat, Cuttack, Odisha
7 .	Present Address		554/1964, Laxmi Bhawan, Sree Vihar, Chandrasekharpur, Bhubaneswar-751024, Odisha
8.	Contact Details		Mobile: 9937350344 E-mail id: bk_mohapatra@yahoo.com
9.	Designation and last place of posting	:	Chief Scientist , CSIR-IMMT, Bhubaneswar-13
10	Date of superannuation	:	30th April 2014 from CSIR-IMMT.

II. Academic Accomplishments

Degree	**Class/ Grade**	**University**	**Year**	**Academic distinction**
Ph. D (Ore Geology)		Utkal	1992	Guide- (Dr. R.K. Sahoo)
M.Sc. (Geology) ***Special papers:*** **Metallic minerals, Ground water and Engineering Geology**	First Class **(First Position in the University**	Utkal	1973	Gold Medal
B.Sc. (Hons. in Geology)	First Class **(First Position in the University)**	Utkal	1971	National Scholarship

III. Professional Experience

Name of the Post	Period of Service	Employer	Year of Experience	Type of work
Lecturer	July 1974 - Dec. 1974	Govt. of Orissa	6 months	Teaching
Geologist (Asst.)	Jan. 1975 - Dec. 1975	RSP, (SAIL)	1 year	Quality control
Geologist	Dec. 1976 - Jan. 1981	Geological Survey, Bhopal, Govt. of India	5 years	Geological Mapping & Mineral Explor.
Scientist [B, C, EI, EII & F]	Jan. 1981- Jan. 2005	Regional Research Laboratory (CSIR), Bhubaneswar	24 years	Research & Development of Mineral Resources
Chief Scientist/ Scientist 'G'	2005-2014	CSIR-Institute of Minerals and Materials Technology, Bhubaneswar	9 years	-do-
Head, Mineralogy Dept.	2008-2012	-do-	5 years	-do-
Professor, AcSIR	2009-2014	-do-	5 years	Teaching in Academics, CSIR-IMMT
Visiting Professor	2015-2	Ravenshaw University	9 years	Teaching in B. Sc (Hons) & M. Sc. & M. Phil.

IV. Additional Information

(i) Specialisation

► Characterisation of ores / Minerals, Materials including Slag, Agglomerates, Leached residue, Clinkers, Aggregates and Process derivatives etc

► Process Mineralogy related to **Mineral Engineering**

► Waste [mine and industrial waste] utilization related to **Environmental Engineering**

(ii) Countries visited

1. Japan (**1986**): Participated in instrument training programme (Training on Scanning Electron Microscope at JEOL site office, Nakagami)
2. Germany (**1995**): Sr. DAAD Fellowship under exchange programme for three months. Worked at Gottingen University with Prof. A. Mucke
3. USA (**2000**): Participated in instrument training programme (EDS at Noran Site office, California).
4. China (**2010**): Participated in ICSOBA-10, an International Conference and Presented a paper.

V. Honours and Awards

1. **Dr. J. Coggin Brown Memorial Gold Medal** in 2016-2017 for Geological Sciences from the Mining, Geological and Metallurgical Institute of India.
2. **Extension of service tenure** for two years (2012-2014).
3. Master Tanay Chadha Memorial **Geologist Award in 2013** by Mining Engineers' association of India.
4. **Samanta Chandrasekhar Award** in Physical Science (2012) by Odisha Bigyan Academy.
5. Best poster award in 99th Indian Science Congress (2012) held at KIIT University, Bhubaneswar. The paper titled, "Microstructural and Chemical investigations of Spessartine in Gangpur Group of rocks, Odisha"
6. Received **Peravadhanulu** award by IIME at ISM, Dhanbad (2005); at IMMT, Bhubaneswar (2009) and at NML, Jamshedpur (2010) for best paper presentation.
7. Received IIM, Bhubaneswar chapter award (2006)
8. Received **DAAD fellowship** and visited Germany in 1995 under bilateral Exchange programme
9. Promoted to E-I in 1989 under merit scheme (3 years)
10. Head the Mineralogy Department between 2007 and 2012.

VI. *Other* involvements

(a) Operated, maintained and imparted training on SEM & EPMA

(b) Participated in two cruises in Gavesani during 1983 for exploration of Polymetalic nodule

(c) Organised **6** orientation courses as **coordinator** on **"Mineral characterisation and Beneficiation practices"** during 2-6th April 2002; 28st July-1st August 2003; 13- 8th Dec. 2004; 23-28th Oct. 2006; 4-9th, 2008 and 21-26th May 2012.

VI. R & D Contribution, in brief

(i)	**Mineral based Projects Undertaken**	**Number**
	a. As Leaders b. As Member	27 30
(ii)	**Ph. D Supervised**	15
(iii)	**Publications & Patents Granted**	146 & 2
(iv)	**First Mineralogical Report**	15

VII. Ph. D. Supervised

Sl. No	*Name of the Candidate*	University	Thesis Title	Year of Award
1.	***Dr. B. R. Nayak***	Utkal	Mineralogy and Geochemistry of Manganese ores from Gangpur Group of rocks around Goriajhar region, Sundergarh District, Orissa.	**1997**
2	***Dr. M.B.S. Rao***	-do-	Mineralogical and Geochemical studies of feed material (Bauxite) and rejects from Alumina Refinery at Damanjodi, Koraput Dist. Orissa for their further processing	**1999**
3	***Dr. S.S. Nibedita***	-do-	Mineralogical and Geochemical studies of solid wastes from Rourkela Steel Plant, Rourkela, Orissa.	**2002**
4	***Dr. P.P. Mishra***	-do-	Mineralogical and geochemical studies of manganese ores from Roida region, Keonjhar dist. Orissa, with special reference to their optimum utilisation.	**2005**
5	***Dr. P.K. Mallick***	-do-	Mineralogical and geochemical studies of Bauxite from two geo environment, Orissa--A comparative approach.	**2009**
6	***Dr. N. Dash***	-do-	Mineralogical and Geochemical characteristics of Manganese Ores from Gangpur Group of rocks around Salebira-Bargaon-Panchra area, Sundergarh dist, Orissa with special emphasis on their optimum utilization".	**2012**
7..	***Dr. K. Mahanta***	-do-	Characterisation and optimum utilisation of iron and manganese ores around Thakurani-Belkundi sector, Keojnhar dist., Orissa	**2013**
8.	***Dr. S. Jena***	-do-	Mineralogical and Geochemical characteristics of Manganese Ores from Koka-Liliguma-Minakhunti area, Koraput dist, Orissa with special emphasis on their optimum utilization.	**2014**
9.	***Dr. S. Prusty***	-do-	Characterization of sillimanite in beach sand of Orissa coast, its preconcentration and conversion to value added products through thermal treatment".	**2014**

10.	***Dr. P. K. Nayak***	-do-	Geology and Geochemistry of Iron Ore Group of Rocks Around Sulaipat – Dabanki-Dalkisector, Mayurbhanj District, Orissa With Special Reference to Associated Ore Deposits".	**2016**
11.	***Dr. S. Mishra***	-do-	Geological and Geochemical Studies of Manganese ore in Dalki-Chormalda sector of Bonai Keonjhar Belt, Orissa with Special Reference to its Utilisation	**2016**
12	***Dr. Swatirupa Pani***	AcSIR, CSIR, New Delhi	Manganese ores and associated rocks from Barbil - Joda - Bamebari region, Keonjhar district, Odisha: Mineralogical, geochemical studies and utilisation prospects of sub-grade ores.	**2017**
14	***Dr. Sagarika Pradhan***	Ravenshaw	Geological and Geochemical studies of Manganese Ores around Periguda-Ambodala - Rukminibari, Kalahandi districts, Odisha	**2019**
13	***Dr. Priyadarshini Sharma***	Utkal	Petrology and petro-chemistry of Chromite ore, Chromitite and Nickeliferous Laterite in Ultramafic Complex of Bhimtangar-Chinguripal-Sukarangi area, Jajpur District,	**2021**
15	***Dr. Sudakhina Sahu***	Ravenshaw	Mineralogical and geochemical studies on Bauxite developed over two different Geological Formations, Odisha; A comparative study.	**2022**

IX. List of Publications

2026-2017

146. Sahoo, K., Mishra, P., Khaoash, S., **Mohapatra, B.K** and Das, S. K. (**2026**). Morpho-chemistry of Pyrophyllite in the Schistose Rock in a part of the Singhbhum Craton, Odisha, India. Clay Research, 42(1), 1–13.

145. Sahoo, J.K., Mishra, P., Angadi, S.I., Khaoash, S. and **Mohapatra, B.K. (2026)** Report on Rare Earth phosphate minerals from the Daitari Iron Ore Province, Singhbhum Craton, Eastern India. Journal of Geological Society of India. 102(8), 1055-1062.

144. Sahoo, J.K., Nayak, D., Mishra, P., Angadi, S.I., Khaoash, S. and **Mohapatra, B.K. (2025**) Exploring the pelletization of ochre from Daitari iron ore mines, Singhbhum Craton, Eastern India for sustainable iron making. Journal of Sustainable Metallurgy, 11, 2411–2423.

143. Sahoo, J.K., Nayak, D., Mishra, P., Angadi, S.I., Khaoash, S. and **Mohapatra, B.K. (2025)** Processing of blue dust from Daitari iron ore deposit, Singhbhum Craton, Odisha for optimum utilisation. Transactions of the Indian Institute of Metals, 78, 210.

142. Sharma, P., Das, A. K., **Mohapatra, B. K.,** (**2025**). Alteration in chrome spinel of the Sukinda Ultramafic Rocks, Singhbhum Craton, Eastern India and its bearing on the origin of Ferritchromit. Geological Journal, 61 (7), 1943-1962.

141. Sahoo, J.K., Nayak, D., Mishra, P., Angadi, S.I., Khaoash, S. and **Mohapatra, B.K. (2025)** Processing of Ochre from Daitary Iron Ore Mines Singbhum Craton, Eastern India for optimum utilisation. Indian Journal of Engineering and Materials Sciences. 32, 527-535.

140. Das, A. K, Pattnaik, J., **Mohapatra, B. K.,** Khaoash, S., Mishra, P., Viljoen, F., Ueckermann, H., **(2024**). Exploring optical and geochemical zoning variation in chromite: Metasedimentary vs. orthomagmatic origins in Singhbhum Craton, Eastern India. Geochemistry, 84 (4) 1-27.

139. Nayak P. K., Sinha S. K., Sahoo S., Mishra P. P., Khaoash S. and **Mohapatra B. K. (2023)** Petrographic Studies of a part of East Coast Bauxite Deposits, Odisha, Eastern India and Implication on their Genesis. Journal of the Geological Society of India.

138. Lopamudra Beura, Somnath Khaoash, Patitapaban Mishra, Nilima Dash **Birendra Kumar Mohapatra,** Prasanta Kumar Nayak **(2023**) Contrasting characteristics of freclay from Lower and Upper Gondwana Formations of Odisha, eastern India. Arabian Journal of Geosciences.16 (10), 550.

137. Mishra, P, Pradhan, S, Khaoash, S, Mishra, P.C, Dash, N and **Mohapatra, B.K (2021**) Development of nockel-rich lithiophorite in Khondalite-hosted Mn-ore deposits of south Odisha, India. Arabian Journal of Geosciences.14 (22), 2393.

136. Das, A. K., Khaoash, S. Mishra, P., **Mohapatra, B. K.,** Mohanty, J. K., **(2021**). Chromite-bearing quartzite in the southern fringe of Singhbhum Craton around Ghutrigaon, Eastern India: Petrogenetic implication. Geological Journal, 56 (7), 3472-3496.

135. Prasanta Kumar Nayak, Patitapaban Mishra, **Birendra Kumar Mohapatra** and Prem Prakash Singh **(2020)** Metamorphosed Banded Iron Formation of Gorumahisani-Suleipat-Badampaharbelt, in Precambrian Iron Ore Group, Singhbhum Craton, India: ore petrography, michrocemical and genetic studies. Arabian Journal of Geosciences

134. Das, A. K., Khaoash, S*., Das, S. P., **Mohapatra, B. K.,** Dash, N., Singh, S. K., Mishra, P., Mohanty, J. K., **(2020).** Processing of Low-Grade Chromite Ore for Ferroalloy Production: A Case Study from Ghutrigaon, Odisha, India. Transaction of Indian Institute of Metals, V. 73, 309-2320.

133. Nilima Dash, Bibhuranjan Nayak and **Birendra Kumar Mohapatra** (2020).The supergene Mn-minerals in Gangpur Group, Eastern India and their Genesis. Jorn. of Geological Society of India, 96, 337-348

132. Sudakshina Sahoo, Patitapaban Mishra, Purna Chandra Mishra, Somnath Khaoash and **Birendra Kumar Mohapatra (2020**) Size Classification vs. Mineral distribution and Its Implication in Optimum Utilization of Khondalite-Hosted Bauxite Ore from Eastern India. Trans Indian Inst Metals

131. Sagarika Pradhan, Patitapaban Mishra, Somnath Khaoash, Nilima Dash**, Birendra Kumar Mohapatra (2019)** Gorceixite', a Ba-Al phosphate mineral, from Mn-ores of Eastern Ghats Group of Rocks, Odisha, India. Arabian Journal of Geosciences 12(12), 388.

130. P. Mishra, S. Khaoash, **B.K. Mohapatra** and N. Dash **(2019**) Role of microstructure and mineralogy on beneficiation of low-grade manganese ores from the Eastern Ghat Group of rocks, Odisha, India. World of Mining Surface and Underground.

129. S. Pani, N. Dash, **B.K. Mohapatra** and S.K Singh **(2019)** Siliceous Manganese ore from Eastern India: A potential Resource for Ferrosilicon -Manganese Production. High Temp Mater. Proc. 38, 425-435

128. S. Pradhan, P. C. Mishra, P. P. Mishra, S. Khaoash and **B. K. Mohapatra (2018)** Manganese mineralisation in parts of Eastern Ghats around Ambadola, Rayagada district, Odisha. International Journal of Earth Sciences and Enginnering

127. S. Khaoash, P. P. Mishra, **B. K. Mohapatra** and A. Rath **(2018)** Characterisation of high alkali limestone/dolomite from Gangpur Group. Erzmetall-World of Metallurgy

126. S. Pani, S.K.Singh and **B.K.Mohapatra (2018)** Synthesis and characterisation of MnO Nano particles using Thermal Plasma Technique. Transaction of the Indian Institute of Metals, 72 (1), 65-71

125. P. Sharma, **B.K. Mohapatra**, P.K. Nayak, S. Mishra, and P.P. Singh (**2017**): Mineralogy, petrography and micro-chemical characteristics of enclaves of mylonitic BIFs within Sukinda ultramafic complex, Odisha. Journ. Geol. Soc. India, 89, 541-546.

124. Rakesh K. Sahoo, Prajna P. Rout, Saroj. K. Singh, Baroda K. Mishra and **Birendra K. Mohapatra** (**2017**) Synergetic Surface and Chemical Durability Study of the Aesthetically Enhanced Natural Quartz by Heat Treatment. Metallurgical and Materials Transactions A, v. 48(3), pp.1111-1120.

123. Sahoo, S., Mishra, P., & **Mohapatra, B. K.** (2017). Morphological and microstructural characteristics of bauxite developed over a part of Precambrian Iron Ore Group of rocks, Sundergarh District, Eastern India. Arabian Journal of Geosciences, 10(1), 12.

2016-2007

122. Rakesh K. Sahoo, **Birendra K Mohapatra**, Saroj K. Singh and Baroda K. Mishra **(2016**) Aesthetic Value Addition and Surface Study of Odisha Ruby Stones by Heat Treatment with Different Metal Oxide Additives. Adv. Sci. Lett**.** 22 (2), 336-340.

121. S. Pani, R. K. Sahoo, S. K. Singh and **B. K. Mohapatra (2016)** Grading of Manganese Oxide Ore from Bonai-Keonjhar Belt, Odisha Using Vibrational Spectroscopic Technique. Advanced Science Letters **22(2), 419-423.**

120. S. Pani, S.K. Singh and **B.K. Mohapatra** (**2016)** Bog Manganese Ore: A Resource for High Manganese Steel Making. JOM, **68(6), 1525-1534.**

119. P. P. Mishra, S. B. Mishra, P. P. Singh and **B. K. Mohapatra (2016**) Reworked manganese ore bodies in Bonai-Keonjhar belt, Singbhum craton, India; Petrology and genetic studies. Ore Geology Review, 78, 361-370.

118. S. Pani, S. K. Singh and **B. K. Mohapatra (2016)** Vibrational spectroscopic study for qualitative assessment of Mn-oxide ore, Resource Geology**,** 66 (1), 12-23.

117. Jyoti Jee, **Birendra Kumar Mohapatra**, Sushil Kumar Dutta and Gunanidhi Sahoo (**2016**) Sources of calcium for Psammophilus Blanfordanus during embryonic development. Acta Herpetologica, 11(2), 171-178.

116. S. Mishra, **B. K. Mohapatra** and P. P. Singh (**2015**) Characteristics of Mangcrete: A Reworked Low Grade Manganese Ore in Iron Ore Group of Rocks, Jamda-Koira Valley, Odisha, 28-36. In Recent advances in Mineral development and Environmental issues, Capital Publishing Company, New Delhi, 335p.

115. P. Sharma, **B.K. Mohapatra** and P.P. Singh (**2015**) Sulphide and Sulfarsenide Minerals Associated with Chromiferous Ultramafic Complex of Sukinda Valley, Odisha, 128-135. In Recent advances in Mineral development and Environmental issues, Capital Publishing Company, New Delhi, 335p.

114. N. Dash and **B. K. Mohapatra (2015)** Shirozulite, a brittle Mn-mica in Manganese Formation of Gangpur Group, Eastern India, Journ. Geol. Society of India**,** 85, 547-550.

113. S. Pani, R.K. Sahoo, N. Dash, S. K. Singh and **B. K. Mohapatra** (**2015**) Cost effective and minimal time synthesis of mullite from a mine waste by the thermal plasma process Adv. Materials Letters, 6 (4), 318-323.

112. P. K. Nayak**, B. K. Mohapatra** and P. P. Singh **(2014)** Intrusive Magnetite dyke in Precambrian Banded Iron Formation, Singhbhum Craton, India: Mineralogical and chemical characteristics, Resource Geology**,** 64 (4), 388-395

111. S. Mishra, P. P. Singh and **B. K. Mohapatra** (**2014**) Utilisation potentiality of ferruginous manganese ores from Bonai-Keonjhar belt, Odisha. Mining Engineers' Journal, 16 (4), 28-33.

110. **B.K. Mohapatra,** S. K. Singh, C. R. Mishra and B. K. Mishra (**2014**) Recovery of Titanium Oxide from Undigested Sand of an Indian Alumina Refinery and preparation of value-added titanium carbide. Light Metal, 169-172.

109. Rakesh K. Sahoo, **Birendra Kumar Mohapatra**, Saroj K. Singh and Baroda K. Mishra **(2014**) Influence of surface colouration of the lead oxide treated natural gem ruby. Adv. Sci. Lett., 20, 622-625.

108. Rakesh K. Sahoo, **Birendra Kumar Mohapatra**, Saroj K. Singh and Baroda K. Mishra **(2014**) Aesthetic value improvement of the ruby stone using heat treatment and its synergetic surface study. Adv. Materials Letters**,** 329, 23-31.

107. P. P. Mishra, **B. K. Mohapatra**, P. K. Mallick and K. Mahanta (**2013**) Influence of Microstructure on Beneficiation of Low-Grade Siliceous Manganese Ore from Orissa. Journal of Minerals and Materials Characterization and Engineering**,** 1(03): 80-84.

106. P. K. Nayak., **B. K**. **Mohapatra** and P. P. Singh, **(2013)** Intrusive Magnetite in the Precambrian BIF in Mayurbhanj district, Odisha. Mining Engineers Journal, 15 (5), 23-28.

105. P. Sharma, **B. K. Mohapatra** and P. P. Singh **(2013)** Dispersion Pattern of PGE and Ag in chromiferous Ultramafic suite of Rocks in Sukinda Valley, India, Resource Geology 63, 371-383.

104. S. Prusty, **B. K. Mohapatra** and S. K. Singh (**2013)** Separation of Sillimanite from beach sand of Odisha coast for value addition. Mining Engineers Journal, 14(10), 22-32.

103. **B. K. Mohapatra**, S. Jena and B. K. Mishra **(2012)** Characteristics of Manganese ores from two different mode of Occurrences in the Eastern Ghat Group, Odisha and the influence of petrology on beneficiation. IMPC, 3488-3498.

102. **B. K. Mohapatra,** S. Singh, L. B. Sukla, K. Rao and B. K. Mishra (**2012**)**:** Study on surface alteration behavior during column bioleaching. Mineral Processing and Extractive Metallurgy Review 33 (6), 374-390

101. **B. K. Mohapatra**, S. Mishra and P. P. Singh **(2012**) Biogenic wad in Iron Ore Group of rocks of Bonai-Keonjhar belt, Odisha. Journ. Geolog. Soc. of India, 80 (1), 89-95.

100. **B. K**. **Mohapatra,** B. K. Mishra, C .R. Mishra, (**2012**)**:** Studies on metal flow from khondalite to bauxite to alumina and rejects from an alumina refinery, India. Light Metals, pp. 87-91.

99. S. Prusty, D. K. Mishra, **B. K. Mohapatra**, G. Mishra and S. K. Singh (**2012**)**:** Optical and micro-raman characterization of fused mullite prepared from beach sand sillimanite. Materials and Manufacturing Processes, 27 (5), pp. 481-485.

98. S. Prusty, D. K. Mishra, **B. K. Mohapatra** and S. K. Singh (**2012**)**:** Effect of MgO in the microstructure formation of zirconia mullite composites from sillimanite and zircon, Ceramics International 38, 2363-2368.

97. S. Prusty**,** D. K. Mishra, **B. K**. **Mohapatra,** G. Mishra, and S. K. Singh, (**2012**)**:** Preparation of fused zirconia/mullite aggregates from sillimanite, zircon and alumina mixtures via plasma, Journal of the American Ceramic Society 95 (2) 530-537.

96. D. K. Mishra,Sasmita Prusty, **B. K. Mohapatra** and S. K. Singh (**2012**)**:** A comparative study of CaO-MUZ elaboration by plasma melting and sintering technique, Materials and Manufacturing Processes 27 (3) 284-290.

95. K. Mahanta, **B. K.Mohapatra** and P. P. Singh **(2012)** Reworked iron and manganese ore in parts of Iron Group of Rocks, North Odisha. Mining Engineers Journl, 14(5), 14-26.

94. **B.K. Mohapatra**, S. Jena and P. P. Singh (**2011**)**:** Microstructure-compositional variation in Iron Oxy-hydroxide minerals formed with Manganese Mineralization, Eastern Ghats Supergroup, Orissa. Journ. Geol. Soc. of India, 77, 450-458.

93. **B. K. Mohapatra,** P. P. Mishra, and P. P. Singh (**2011**)**:** Detrital type manganese ore bodies in the iron ore group of rocks, Orissa, Eastern India. Lithology and Mineral Resources, 46 (1), 30-40.

92. P. K. Nayak**, B. K Mohapatra,** P. P. Singh and R. K. Martha (**2011**)**:** Cobalt-Bearing Grunerite in the Metamorphosed Banded Iron Formation in Orissa, India. Resource Geology 61, (3) 281–289.

91. S. Jena, **B. K. Mohapatra** and P. P. Singh **(2011):** Apatite Microstructure and Composition in Manganese Formation of Eastern Ghats, Orissa, India. Journal of Minerals & Materials Characterization & Engineering. 10 (5), 407-417.

90. S. Prusty, G. Mishra, **B. K. Mohapatra,** S. Varma, S. K. Singh, and D. K. Mishra (**2011**)**:** 'Structural and Microstructural Properties of Fused ZrO_2-Mullites', Materials and Manufacturing Processes, 26 (2), 282- 287.

89. **B. K. Mohapatra,** B. K. Mishra and C. R Mishra (**2011**)**:** Investigation of alumina discharge into the red mud pond at NALCO`S Alumina Refinery, Damanjodi, Orissa, India., ed. Stephen J. Lindsay, Light Metal, pp.93-96.

88. S. Prusty, D. K. Mishra, **B. K. Mohapatra** and S. K. Singh (**2011**)**:** Correlation between properties of zirconia mullite and Y_2O_3 stabilized zirconia mullite derived by various processing techniques, Advances in Applied Ceramics 110 360-366.

87. J. Mohapatra, D. K Mishra, V. Berma, S. K Kamilla, R Sakthivel, **B. K Mohapatra** and S. K.Singh (**2011**)**:** Studies on structural and magnetic properties of $Zn_{1-x}Cu_xO$ ($0 \leq x \leq 0.1$) Systems. Advanced Science Letter, 4, 458-462.

86. S. Mishra, **B. K. Mohapatra** N. Dash and D. S. Rao (**2011**)**:** Ore petrography of low-grade siliceous manganese ores from the Bonai-Keonjhar belt, Orissa, India: The influence of mineral-fabric on their beneficiation. Mining Science and Technology, 21, 803-808.

85. D. K. Mishra, D. R. Sahu, P. K. Mishra, S. K. Singh, **B. K. Mohapatra** and B. K. Roul **(2011):** Ce Doped LCMO CMR Manganites: A consequence of enhanced T_c and T_{IM}, Bulletin of Materials Science, 34, 1501-1506.

84. **B.K. Mohapatra**, C.R. Mishra, B.K. Mishra, P.K. Mallick and A.K. Paul **(2010)**: Indian Bauxite from two geo-environments -a comparative study, ICSOBA, Zhengzhou, China.

83. N. Dash, **B. K. Mohapatra** and D. S. Rao (**2010): ** Petro-minerographical Studies of Off-grade Mn-ores from two Contrasting Occurrences in Gangpur Group of Rocks, India, and their Influence on Beneficiation, World of Metallurgy-Ertzmetall*,* 63(2), 85-90.

82. B. B. Jha, B. K. Mishra**, B. K. Mohapatra** and S. N. Ojha (**2010): ** Acoustic Emission studies during high temperature oxidation of 2.25Cr-1Mo Steel at 1173K. Materials at High Temperature, 27(4)301-311.

81. G. Sahoo, **B. K. Mohapatra** and S. K. Dutta (**2010): ** Chemical Composition and Ultrastructure of Shells of Unfertilized Eggs of Olive Ridley Turtles, Lepidochelys olivacea. Current Herpetology, 29(1), 37-43.

80. S. Samal, **B. K. Mohapatra** and P. S. Mukherjee (**2010): ** The Effect of Heat treatment on Titania Slag**.** Journal of Minerals & Materials Characterization & Engineering, 9 (9), 795-809.

79. P. P. Mishra, **B. K. Mohapatra**, and K. Mahanta. (**2009**) Upgradation of low-grade siliceous Manganese ore from Bonai-Keonjhar belt, Orissa, Journ. of Minerals & Materials Charac. And Eng., 8(1), 47-56.

78. **B. K. Mohapatra,** P. P Mishra, P. P. Singh and Rajeev (**2009): ** Manganese ore deposits in Koira-Noamundi province of Iron Ore Group, north Orissa, India: In the light of geochemical signature, **Chemie Der Erde** 69, 377–394. ***Hottest Article***

77. K. Rout, M. Mohapatra, **B. K. Mohapatra** and S. Anand. (**2009): ** Pb (II), Cd (II) and Zn (II) adsorption on low grade manganese ore**.** International Journal of Engineering, Science and Technology. 1(1)106-122.

76. P. P. Mishra, **B. K. Mohapatra** and P. P. Singh **(2009): ** Enrichment of Co values by dry magnetic separation from Manganese ores of Bonai-Keonjhar belt, Orissa. Journ. of Minerals & Materials Charac. and Eng., 8 (4) pp 317-327.

75. M. Mohapatra, K. Rout, **B. K**. **Mohapatra,** and S. Anand (**2009): ** Sorption behaviour of Pb (II) and Cd (II) on iron ore slime and characterization of metal ion loaded sorbent. Journal of Hazardous Materials, 166, 1506-1513.

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Subject wise Publications, in brief

Total Publication- 146

A. Applied Mineralogy - 117

i) Manganese Ore – 44

(a) Gangpur Group –16
(b) Iron-ore Group – 13
(c) Eastern Ghat Group –6
(d) Other Group –2
(e) Marine Mn-Nodules --7

ii) Iron-ore – 10
iii) Bauxite-ore --7
iv) Chromite-ore -- 7
v) Gemstone –4

B. Mineral processing -45

(a) Mn-Ore - 14
(b) Fe-Ore - 15
(c) Al-rich Ore - 16

C. Miscellaneous - 29

X. Chapter in Books

Title	Editors	Publisher	Year
Mineral Processing	P.S.R.Reddy, R. Bhima Rao	RRL, Bhubaneswar	**1998**
Mineral Characterisation and Processing	Vibhuti N. Misra, P. S. R. Reddy, B. K. Mohapatra	Allied Publishers, New Delhi,	**2004**
Geology and mineral resources of Orissa	SGAT	SGAT, Bhubaneswar	**2006**
Recent advances in Mineral development and Environmental issues	M.Das. H.Sahoo B.K.Mohapatra B.M.Faruque	Capital Publishing Company, New Delhi	**2014**

XI. Patents granted

Sl. No	Title	Authors, Patent Number and Year
1.	Process for the stabilization of soluble chromium contaminated solid by down draft sintering, United State, March 28, 2000.	B.D. Nayak, **B. K. Mohapatra,** B.B. Nayak, H.S. Ray. Appl no. 537247, July 9, 2002 (no. 6,416,251).
2	Microbial desulphurization of calcined petroleum coke	L.B. Sukla, B.K. Mishra, **B.K. Mohapatra**, S.K. Mishra, B.D. Nayak, D. Satpathy, N. Pradhan, M. Pradhan (IMMT) and Matthew F. Cesario (ALCOA), USA Patent, 2008.
3.	Treatment method of natural gem stones for enhancing color and clarity, involves extending plasma arc by movement of electrodes with prescribed amount of current and load voltage to treat charge mixture to get desire color of gem stones	R. K. Sahoo, S. Kumar Singh, **B. K. Mohapatra**, B. K. Mishra, Mar 2017

Brief C.V. of Dr. B. K. Mohapatra

Dr. Birendra Kumar Mohapatra is a gold medalist from Utkal University and cleared the Geologist examination conducted by UPSC by securing first position in Odisha in the year 1974. He started his professional career as a lecturer in D.D. College, Keonjhar and shifted to RSP (SAIL) for around one year, and then joined Geological Survey of India, Bhopal in 1975, where he successfully completed exploration of sulphide minerals in Bundelkhand rock. Subsequently, he joined the CSIR-Institute of Minerals and Materials Technology, Bhubaneswar in Jan. 1981 as scientist B and in 2005 he reached the position of Chief Scientist. In recognition to his deep professional involvement, he got two years extension in service and superannuated from council service in April 2014.

In a span of 33 years of R&D career he has contributed significantly towards research and development. He has worked extensively in the area of mineral exploration, process mineralogy, characterisation of ores/minerals, processed products and contributed significantly in the development of mineral resources in general and state of Odisha, in particular.

As a scientist at CSIR-IMMT he always thrived to engage with the industry. He completed 30 projects mostly funded by private agencies, where he was a leader. He has published 145 papers in peer reviewed journals, 50 papers in edited seminar/symposium proceeding and supervised fifteen students for Ph.D. degree.

His innovative findings are not only limited to 16 first reports of minerals but also have large implications in the area of mineral beneficiation, metal extraction, waste utilisation and optimization of process developments. He is an experienced teacher. He started his career as a lecture in D.D. College, Keonjhar and continued as a visiting Professor in Geology Department, Ravenshaw University till 2024.

He received Peravadhanulu award by IIME for best paper presentation three times in the year 2005, 2009 & 2010 and IIM chapter award in 2006 He received the prestigious Samanta Chandrasekhar Award in Physical Science from Odisha Vigan Academy for the year 2012. He is also the recipient of the Master Tanay Chadha Memorial Geologist Award for 2013, instituted by Mining Engineers' association of India and Dr. J. Coggin Brown Memorial Gold Medal in 2016-2017 for Geological Sciences from the Mining, Geological and Metallurgical Institute of India.

He worked in Gottingen, Germany for three months on Sr. DAAD fellowship in 1995 and visited Japan (1986), USA (2000) and China (2010) on different short-term programme.

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