



Mineral Information & Development Center (MDC), India

In Association With

Federation of Indian Mineral Industries (FIMI), India

Vidarbha Economic Development Council (VED), India

Presents

INTERNATIONAL CONFERENCE & EXHIBITION ON

MINERAL BUSINESS DEVELOPMENT

(MBD 2022)

On

**“Prospects and Challenges of Mineral Based Products and
Utilization of Wastes for the ‘Make in India’ Initiative”**

TECHNICAL PROGRAM – 2022

RADISSON BLU, NAGPUR, INDIA

NOVEMBER 10-11, 2022



Program Highlights of MBD 2022 Conference & Exhibition

9 th November 2022	
16.00 - 19.00	Registration at Hotel Radisson Blu, Nagpur
10 th November 2022	
07.30 - 09.30	Registration at Hotel Radisson Blu, Nagpur
09.30 - 10.30	Inaugural Session
11.00 - 16.20	Keynote Addresses & Presentations of General Interest
11 th November 2022	
09.30 - 18.00	Three Parallel Sessions
	• Rare Earth Elements (REE), Analytical & Waste Utilization
	• Ferrous, Non-Ferrous Minerals & Waste Utilization
	• Industrial Minerals

Technical Program - MBD 2022

DAY 1 (10-11-2022)

Time (hrs)	10th November 2022
07.30 - 09.30	Registration & Welcome
09.30 - 10.30	Inaugural Function
09.30 - 09.35	Welcome to MBD 2022
09.35 - 09.40	Presentation of bouquet to dignitaries
09.40 - 09.50	Introduction of MBD by Convener Dr. Ashok Nandi
09.50 - 10.10	Addressed by Guests of Honor Prof. Suddhasatwa Basu and Mr. Amit Sharma
10.10 - 10.20	Addressed by Chief Guest Dr. Deependra Singh
10.20 - 10.25	Short Video Message by Hon. Minister Shri Nitin Gadkari
10.25 - 10.30	Vote of Thanks Dr. M. K. Roy
10.30 - 11.00	High Tea

	Speaker	Keynote addresses
11.00 - 13.00	Mr. Deependra Singh CMD IREL (India) Limited, Mumbai	Rare Earths Minerals and Materials- The Vital Building Blocks for Clean Energy Technology
	Prof. Suddhasatwa Basu Director CSIR-Institute of Minerals & materials Technology, Bhubaneswar	Steel & Metallurgical Waste and Resource Generation
	Mr. Amit Sharma IAS Secretary to the Government, Government of Jammu and Kashmir	Opportunities for Mineral Based Industries in J&K
	Dr. Indra N. Chakraborty Technical Consultant Calderys India Refractories Ltd., Nagpur	Can India Become Self Reliant in Refractories?
13.00 - 14.00	Lunch Break	
14.00 - 15.30	Mr. Chanchal Manna GM (TGM) UCIL	Management of Sustainable Development in Mining and Processing of Low-Grade Uranium Deposit at Uranium Corporation of India Limited
	Dr. K.R. Randive Professor Post Graduate Department of Geology, RTMNU, India	A Sustainable Approach to Transforming Mining Waste into Value Added Products
15.30 - 16.00	Tea /Coffee Break	
	Mr. Arvind Kumar Director (Technical), MECL	Industrial Mineral Potential of India

16.00 - 17.30	Mr. Arnab Majumder Manager, Mining and Metals, Advisory - Management Consulting, PricewaterhouseCoopers Private Limited, India	Investment & Economic Growth Potential for The Indian Mining Sector
	Dr. A.K. Soni Scientist-in-Charge and HoRG CSIR-CIMFR, Nagpur Research Centre	Mineral-based Industries and Make in India Initiative: Processes and Products for Accelerated Growth
Presentations by Sponsor		
17.30 - 18.00	Mr. K. Ramachandra Rao BE (Mining) OU Mtech (Rock Mechanics) IIT Delhi	Strategics for Minimising Mine Waste Generation and Conversation of Mine Waste to Wealth

**DAY 2 - PARALLEL SESSION 1
(11-11-2022)**

**TS-1: RARE EARTHS ELEMENTS, ANALYTICAL TECHNIQUES &
WASTE UTILIZATION**

Time (hrs)	Speaker	Title
09.30 - 09.35	Chairman: Dr. V. Balaram & Co-Chairman: M.K. Roy	Introduction of Rare Earth Session
09.35 - 09.55	Dr. V. Balaram CSIR-National Geophysical Research Institute (NGRI) Hyderabad, India	Deep-Sea Mineral Deposits as a Source of REE and Other Critical Metals for High-and Green- Technology Applications
09.55 - 10.15	Mr. Chellakkan Swamydas Minerals, Project and Minerals Consultant	Value Chain Development of Rare Earth Minerals and Titanium Minerals in India Needs to be Fasttracked for Achieving "Aatmanirbar

		Bharat” and “Make in India” Targets.
10.15 - 10.35	Dr. Shrinivas G. Viladkar Earth and Environmental Sci. Department, IISER, Bhopal Bhauri, Bhopal, India	Exploration for Rare Earth Elements Mineralization in Amba Dongar Carbonatite, Gujarat, India: An Overview and Some Suggestions
10.35 - 11.00	Tea /Coffee Break	
11.00 - 11.05	Chairman	Introduction of Rare Earth Session
11.05 - 11.25	Mr. Sandeep Hamilton Addl. Director (Retired), Atomic Minerals Directorate for Exploration and Research	REE-Fe-Cu mineralization in parts of Arunachal Pradesh, A Potential Rare Earth Resource of the Northeast: forecast for Make in India
11.25 - 11.45	Dr. Upendra Singh JNARDDC, India	Beneficiation and Extraction of Strategic Scandium (Sc) from Aluminium Industry Waste Residue
11.45 - 12.05	Dr. Rajeev Bidwai Scientific Officer-H (Retired), Atomic Minerals Directorate for Exploration and Research	Siwana Ring Complex, Western Rajasthan: A Potential REE Hub
12.25 - 12.45	Ms. Sudipa Bhunia EPMA Laboratory, Department of Geology, Centre of Advanced Study Banaras Hindu University	SHRIMP U-Pb Zircon Geochronology of The Carbonatite-Hosted REE Deposit of Kamthai, Sarnu Dandali Alkaline Complex, NW India: Implication for Plume- Related Metallogeny and CO2 Outgassing at the K-Pg Boundary
13.00 - 14.00	Lunch Break	
14.00 - 14.05	Chairman	Introduction of Analytical & Waste Utilization Session

14.05 - 14.25	Mr. V. Vijay Kumar SPV Engineers	Optimizing Process Control with Near Infrared Online Analysis: Case Studies in Sinter
14.25 - 14.45	Mr. Rajendra Mishra Product Manager – CNA / PFTNA Malvern Panalytical B V	Safe, Accurate and Reliable Online Elemental Analysis Through Unique PFTNA Technique
15.05 - 15.25	Dr. Suchita Rai Principal Scientist JNARDDC	Potential Application of Red Mud in Cement: An Indian Perspective
15.30 - 16.00	Tea /Coffee Break	
16.00 - 16.05	Chairman	Introduction of the Waste Utilization Session
16.05 - 16.25	Dr. Suman Krishna Sit M/s Odisha Mining Corporation Ltd, Bhubaneswar	Utilisation of Internal Waste (Fe <35%) of Iron Ore Mines: A Noble Approach
16.45 - 17.05	Mr. Suraj Ranjan Prasanjit M/s Odisha Mining Corporation Ltd, Bhubaneswar	Utilisation of Over Burden of Chromite Mine: A Step Towards Zero Waste Mining
17.05 - 17.25	Dr. Mohamed Najar Analytical Division, JNARDDC	Commercial and Technical Prospects of Unused Mineral Values of Aluminium Industry

DAY 2 - PARALLEL SESSION 2
(11-11-2022)
TS-2: FERROUS & NON-FERROUS MINERALS

Time (hrs)	Speaker	Title
09.30 - 09.35	Chairman	Introduction of Ferrous & Non-Ferrous Minerals Session
09.35 - 09.55	S. K. Chaurasia NMDC Ltd., Hyderabad, India	Mineralogical Process Audit of Slimes from Kirandul Plant, Bailadila Iron Ore Mine, Chhattisgarh, India to Investigate Process Efficiency by Automated Mineralogic System
09.55 - 10.15	Mr. T.V.S. Subrahmanyam R&D Centre NMDC Ltd., Hyderabad, India	Flowability Charactersitics of Iron Ore and Their Influence on Material Handling System Design Parameters
10.15 - 10.35	Mr. Ganesh Chalavadi AcSIR CSIR-NML, Jamshedpur, India	Fine Size Dry Iron Ore Beneficiation using Thin Bed Air Fluidized Dry Separator
10.35 - 11.00	Tea /Coffee Break	
11.00 - 11.05	Chairman	Introduction of Ferrous & Non-Ferrous Minerals Session
11.05 - 11.25	Mr. S. Pani Mineral Processing Division MMPL&PP	Utilization of Lean Grade Iron Ore Resources of India – The Way Forward
11.25 - 11.45	Mr. L. B. Toal Ore Dressing Officer IBM, Nagpur	Significance of Mineralogical Characteristics in Beneficiation of Low-Grade Iron Ores - A Comparative Study on Ores of Eastern India

12.05 - 12.25	Dr. Ashok K. Sahu Chief Scientist & Head Mineral Processing Department	Recovery of Values from Low & Lean Grade Iron Ore Resources
12.25 - 12.45	Mr.Sachida Nanda Sahu CSIR-IMMT, Odisha, India	Magnetization Roasting; An Emerging Alternative to Produce Synthesized Magnetite Pellet Feed Concentrate by Beneficiating Clay-Rich High LOI, Low- Grade Iron Ore Dumped Fines
13.00 - 14.00	Lunch Break	
14.00 - 14.05	Chairman	Introduction of Ferrous & Non-Ferrous Minerals Session
14.05 - 14.25	Mr. G. Venkateswara Rao Deputy General Manager (MP) R&D Centre, NMDC Limited, Hyderabad, India	Role of NMDC in Mineral Conservation
14.25 - 14.45	Mr. Satyaki Mandal Manager – QPC Calderys India Refractories Ltd., Katni	Development of High Alumina Synthetic Aggregate Based on Impure Raw Bauxite
14.45 - 15.05	Mr. Sakthi Ganapathy Secretary Beach Minerals Producers Association	Need For Value Addition to Abundant Beach Minerals in India to Achieve Self-Sufficiency in Critical Materials to Meet “Make in India” Objectives
15.05 - 15.25	Dr. P.G. Bhukte Scientist JNARDDC	Characterization and Beneficiation of Pyrophyllite
15.25 – 15.45	Rajesh Kumar Singh Associate Vice President McNally Sayaji Engineering Limited	McNally Sayaji Engineering Limited Company Profile

15.45 - 16.00

Tea /Coffee Break

DAY 2 - PARALLEL SESSION 3
(11-11-2022)
TS-3: INDUSTRIAL MINERALS

Time (hrs)	Speaker	Title
09.30 - 09.35	Chairman	Introduction of Industrial Minerals Session
09.35 - 09.55	Mr. Pradeep Kothari Chief Executive Officer	An Over View of Clay Mining, Processing and Uses in Gujarat
09.55 - 10.15	Dr. P.K. Jain Chief Mineral Economist IBM, Nagpur	Flux Grade Limestone for Iron and Steel Industry in India
10.35 - 11.00	Tea /Coffee Break	
11.00 - 11.05	Chairman	Introduction of Industrial Minerals Session
11.05 - 11.25	Mr. Kiran K. Yelamkar Deputy Manager R & D Gimpex- Imerys India Pvt Ltd.	Synthesis of Calcium Silicate from Low Grade Bentonite Clay as Paper Filler - An Energy and Cost-Efficient Approach
11.25 - 11.45	Mr. Alok Sood Mining Business Consulting	Adopting a Pragmatic Approach in Industrial Minerals Exploration
11.45 - 12.05	Mr. Santanu Basak Vice President - QPC Calderys India Refractories Ltd., Katni	R3 is the Key!

12.05 - 12.25	Mr. Sushavon Sarkar Dy General Manager - QPC Calderys India Refractories Limited, Butibori, Nagpur, India	Import Substitution of Raw Material in the Refractory Industry – Self Reliant Initiative (Atmanirbhar Bharat)
12.25 - 12.45	Mr. V.A. Sontakkey Ore Dressing Officer IBM, Nagpur	Beneficiation of Low-Grade Graphite Ore and Recovery of Vanadium as a by Product from Central India Graphite Deposit
13.00 - 14.00	Lunch Break	
14.00 - 14.05	Chairman	Introduction of Industrial Minerals Session
14.05 - 14.25	Ms. Shobhana Dey Mineral Processing Division CSIR-National Metallurgical Laboratory, Jamshedpur, India	Gainful Utilization of Waste High Siliceous Limestone for Iron Making
14.25 - 14.45	Mr. Dhananjay Choudhary Technical Advisor Gimpex-Imerys India Pvt Ltd	Bentonite Beauty in Fertilizer Manufacturing: Approach to Fulfil the End User Need
14.45 - 15.05	Dr. R. Bhima Rao Former Chief Scientist BHUBANESWAR, INDIA	Recovery of Placer Industrial Minerals From Red Sediments of Badlands Topography and Its Value Addition
15.05 - 15.25	Mr. Debasis Maiti JSPL	Coal Gasification in Indian Context
15.30 - 16.00	Tea /Coffee Break	

16.00 - 16.05	Chairman	Introduction of the Session
16.05 - 16.25	Mr. Kiran K. Yelamkar Deputy Manager R & D Gimpex- Imerys India Pvt Ltd.	Modified Low Grade Bentonite to High Grade Bentonite Using Different Method
16.25 - 16.45	Mr. Mohana Rao Andavarapu Mineral Processing Division CSIR-National Metallurgical Laboratory Jamshedpur, India	Efficacy of Pilot Scale Batac Jig: Utilization of LVC Coal for Coke Making



MOIL Limited

(A Government of India Enterprise)

“MOIL BHAWAN”

1-A, Katol Road, Nagpur - 440 013

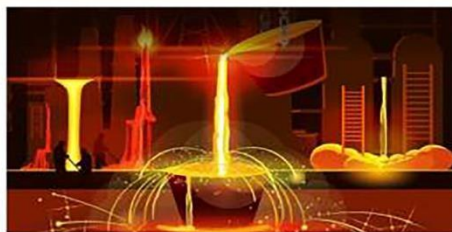


MOIL'S prominent products :

- High Grade Ores for production of Ferro manganese.
- Medium grade ore for production of Silico manganese.
- Blast furnace grade ore required for production of hot metal and Dioxide are for dry battery cells and chemical industries.



KEY STRENGTHS



- MOIL is the largest Manganese Ore producer in the country.
- MOIL has set up a plant based on indigenous technology to manufacture 1,500 MT per annum capacity of Electrolytic Manganese Dioxide (EMD). This product is used the Pharma and Chemical Industries dry battery cells.
- A Ferro Manganese plant having a capacity of 12,000 MT per annum is also set up for value addition.
- Strong mining experience can be leveraged to diversify into mining of other related minerals.
- Pursuing expansion plans to double its production in the next 4-5 years.
- Modernization of mines in full swing.

MOIL is also exploring the possibilities at international level to ensure its global footprint.

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