



भारत सरकार  
खान मंत्रालय  
**Government of India**  
**Ministry of Mines**

## भारतीय खान ब्यूरो – वार्षिक रिपोर्ट 2023-24 Indian Bureau of Mines- Annual Report 2023-24



The Secretary (Mines), Shri V.L. Kantha Rao, inaugurated the Amrit Kalash program on 20.10.2023 at IBM Headquarters.

**“The critical and deep-seated minerals such as Cobalt, Lithium, Nickel, Gold, Silver, Copper are difficult to explore and mine as compared to surficial or bulk minerals. In order to boost exploration, a new mineral concession namely, Exploration Licence has been introduced for 29 critical and deep-seated minerals.”**

**Shri Sanjay Lohiya, Additional Secretary,  
Ministry of Mines, Government of India &  
Controller General in charge IBM**

(At the 2nd Tranche of Critical and Strategic Minerals Blocks Auction in India and distribution of Financial Grant to Startups and MSME on 29.02.2024 at the Scope Convention Centre, New Delhi.)

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# ANNUAL REPORT 2023-24



**Issued by  
Controller General  
Indian Bureau of Mines  
Nagpur**



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# Indian Bureau of Mines (IBM)

## 1.0 Vision, Mission, Objectives and Functions

The Indian Bureau of Mines (IBM) is a subordinate office under the Ministry of Mines. It is engaged in the promotion of scientific development of mineral resources of the country, conservation of minerals, protection of environment in mines, other than coal, petroleum and natural gas, atomic minerals and minor minerals. It performs regulatory functions with respect to the relevant provisions of Mines and Minerals (Development and Regulation) Act, 1957 and enforcement of the rules framed there under, namely Mineral Conservation and Development Rules, 1988/2017 and Mineral Concession Rules, 1960/2016 and Environmental (Protection) Act, 1986 and Rules made there under.

It undertakes scientific, techno-economic, research-oriented studies in various aspects of mining, geological studies and ore beneficiation studies.

### 1.1 Vision for IBM

*“IBM to perform as a National Technical Regulator and to discharge the developmental functions for the sustainable development of the mineral industry and to work as repository of database on mines and minerals”.*

### 1.2 Mission

- 1) To ensure effective regulation of Indian Mineral Sector which promotes long term benefits for its sustainable growth.
- 2) To provide capacity building to State regulatory agencies and also to provide quality technical assistance to the mineral industry, and
- 3) To work as data bank on mines and minerals and to disseminate mineral information for policy formulations.

### 1.3 Objectives

- i. To work as National Technical Regulator operating at national-level designing systems, processes and guidelines for regulation of the mineral sector;
- ii. To function as a facilitator for creation and improvement of state-level regulatory mechanisms and to facilitate state agencies to ensure adherence to standards and parameters for scientific and systematic mining in the sector;

iii. To work as catalytic agent for development of mineral sector by evolving capability & proficiency in beneficiation techniques; dissemination of knowledge and skills in mining and allied areas through its training facilities; consultancy services.

iv. To play crucial role of that of facilitator to the Government in matters and issues relating to the mineral sector in areas of short-medium and long-term mineral-wise strategies, mineral taxation and legislative processes.

v. To play the role of National Repository of mineral data through maintaining a data bank of mines and minerals in the country by developing advanced IT based Mineral Information System enabling the industry to report and access information online, and

vi. To broaden its interactive base and reach out to overseas counter parts through consultations and exchange programmes and to build capacity, skill & expertise through academic and training programmes at institutes of international repute.

#### **1.4 Present Charter of Functions**

In the wake of liberalization of the policy regime governing mineral sector and increasing need for adequate environment management as part of systematic and scientific mining, the mandated functions for IBM, as given for notification in Official Gazette vide Resolution No. 31/ 49/ 2014 – M. III, dated 3<sup>rd</sup> November, 2014 are given below:-

- (i) Collect, collate and organize into a database, all information on exploration, prospecting, mines and minerals in the country in the shape of a National Mineral Information Repository and take steps to publish and disseminate the same;
- (ii) Function as the National Technical Regulator in respect of the mining sector, and lay down regulations, procedures and systems to guide the State Governments (first tier of regulation);
- (iii) Build up capacity in the system, both for regulatory as well as the developmental work, at the central level as well as at the level of the States;
- (iv) Establish institutional mechanisms of coordination between the centre, the States, mineral industry, research and academic

- institutions and all stake holders, so as to proactively develop solutions to the demands and problems faced by the industry;
- (v) Promote research on all aspects of practical relevance to the Industry and to act as bridge between research institutions on the one hand and user industry on the other;
  - (vi) Provide Technical Consultancy Services;
  - (vii) Participate in International collaborative projects in the area of regulation and development of the mineral sector;
  - (viii) Advise Government on all matters relating to the mineral industry; and
  - (ix) Undertake any such other activity as has become necessary in the light of developments in the field of geology, mining, mineral beneficiation and the environment.

## **1.5 Key Activities and Functions**

In light of the role and charter of IBM, the key functions being performed by IBM can be broadly classified as (1) Regulatory Functions, and (2) Developmental Functions.

### **1.5.1 Regulatory Functions**

- i. Mining Plan, Review of Mining Plan & Modification in the Approved Mining Plan -Inspections and Approval (Rule 13 to 17 of Chapter V of M (OAHCEM) CR 2016; Rule 9, 10, 11 & 12 of MCDR 2017);
- ii. Mining Regulations for ensuring implementations of Mining Plan, review of mining plan, Mine Closure Plan and other statutory provisions of MCDR 2017 and launching of prosecutions and compounding thereof (Section 22 & 24 of MMDR Act 1957);
- iii. Inspections and grant of permissions to carry out 'stoping' operations in underground mines (Rule 26 of MCDR 1988/ Rule 30 of MCDR 2017);
- iv. Monitoring of Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) aspects of mining operations (Rule 13 and 31 to 41 of MCDR 1988/ Rule 11 and Rule 35 to 44 of MCDR 2017 and Section 10 of EP Act 1986);

- v. Facilitating in calculations of State-wise, mineral-wise and month-wise royalty on *ad valorem* basis by regulating the submission of monthly and annual returns by the mining lease holders (Rule 64D of MCR 1960/ Rule 38 to 47 of M(OHEM) CR Rules, 2016 and Rule 45 of MCDR 1988/ 2017);
- vi. Mine Closure Plan - Inspections, Approval and monitoring of Progressive and Final Mine Closure Plans (Rule 23A to 23F of MCDR 1988/ Rule 22 to 27 of MCDR 2017);
- vii. Co-ordination with State Governments for curbing illegal mining activities (intimation of violation of Section 4(1) of MMDR Act 1957 to State Government agencies & monitoring of submission of quarterly return and compliance thereof, of illegal mining by various State Governments).
- viii. As prescribed under Section 9(C) of the Act, IBM will discharge a pro- active role in NMET by furnishing inputs on mineral-wise conservation strategies, exploration gaps etc. keeping in view of the national interest.
- ix. IBM administer the framework for sustainable development of the mining sector, as prescribed under section 20A (2) of the Act, through star rating of mines.
- x. IBM will continue to publish the Average Sale Price (ASP) of all the major minerals through its MMS division. This information is required as per the rule 8 of Mineral (Auction) Rules, 2015 for calculating the “Value of estimated Resources” and “Value of the Mineral Dispatched” and that of ‘Reserve Price’ of the deposit to be put to auction. Further, based on the ASP as declared by IBM every month, assessment of ad-valorem royalty is also carried out by the State Governments.

### **1.5.2 Developmental Functions**

- (i) R&D in Mineral Processing - To play a role of a catalytic agency to promote & develop the much-needed R&D in mineral processing in the field of mineral beneficiation, mineral characterization, chemical analysis of ores and minerals and analysis of environmental samples;
- (ii) Information Support and Facilitator Services- To function as a facilitator to the government in formulation of mineral policy, lending technical guidance & support for framing Mineral Acts and in articulating provisions, rules & regulations thereof and lend it the credentials to formulate strategies, articulate policy requirements and oversee their implementation at both national and State levels;

(iii) National Mineral Inventory – Periodical Updation of National Mineral Inventory reflecting the micro-level status and possession of various mineral resources of the country as per the international standards of UNFC;

(iv) Repository on Mines & Minerals – To shoulder the responsibility for collection, processing and storage of statistical data in respect of all major minerals through statutory and non-statutory basis;

(v) Publications on topical interest – To assort process and analyze mines and mineral information generated on account of statutorily and non-statutorily collected information and supply them as important inputs for policy interventions, and

(vi) Training and Capacity Building – To provide training facilities for human resource development and to develop required technical expertise and skill in the personnel manning the mineral industry.

## 2.0 Organizational set up of IBM

IBM has its headquarters at Nagpur, 4 Zonal Offices at Bengaluru, Nagpur, Udaipur and Kolkata, and 13 Regional Offices at Ajmer, Bengaluru, Bhubaneswar, Chennai, Gandhinagar, Goa, Dehradun, Guwahati, Hyderabad, Jabalpur, Nagpur, Ranchi and Raipur. During the year 2017, IBM opened two new skill development centres for sustainable mining practices at Udaipur and Kolkata. IBM has well-equipped ore dressing laboratories and pilot plants at Ajmer, Bengaluru and Nagpur. New Cell has recently been opened at Vijayawada in the State of Andhra Pradesh and action for opening of full fledged Regional office is in progress.

### 2.1 Reorganization of IBM

In the light of transition due to change in the regulatory regime through MMDR Amendment Act, 2015 and transferring of 31 major minerals to the list of minor minerals, IBM had submitted a road map for redefining and restructuring of the organization.

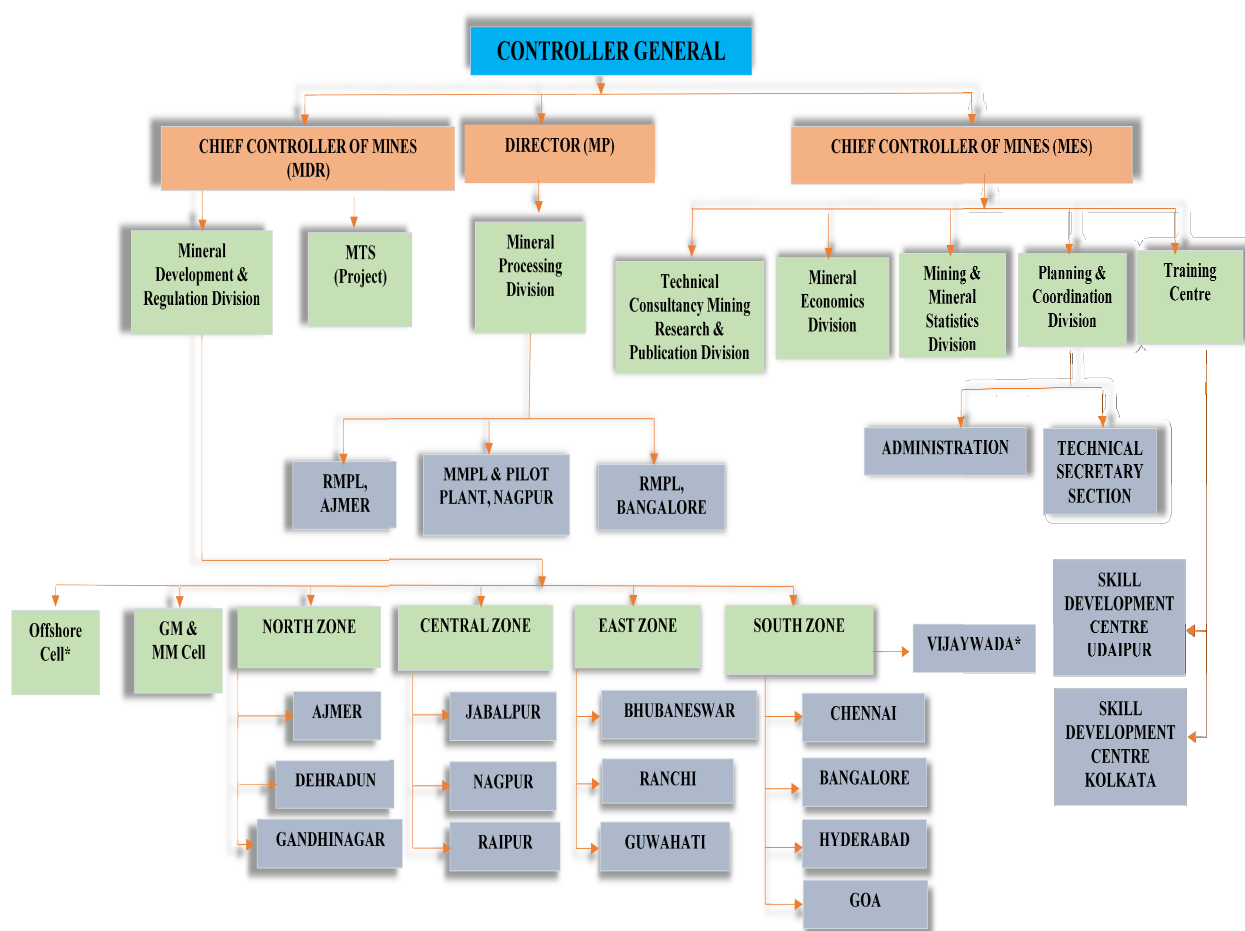
The Ministry of Mines has approved opening up of new regional office at Raipur, Gandhinagar and New Delhi/NCR, upgradation of existing sub-regional office at Guwahati to regional office to cater to the needs of North Eastern Regions. The regional offices at Raipur and Gandhinagar have already been opened. The existing regional offices at Kolkata and Udaipur have been upgraded to the zonal office (East) and zonal office (North) respectively to evenly distribute workload amongst the other two zonal offices located at Nagpur and Bengaluru. Guwahati sub regional office is also upgraded as regional office. For skill development, an Institute of 'Sustainable Development Framework' at Udaipur and Kolkata and 'Remote Sensing Centre' at Hyderabad have been opened. Action for opening of full fledged regional office at Vijayawada in the State of Andhra Pradesh is in progress.

### 2.2 Organizational Structure of IBM

IBM is organized to discharge the functions assigned to it through six technical divisions, which are as follows:

- (i) Minerals Development & Regulation Division (MDRD)
- (ii) Mineral Processing Division (MPD)
- (iii) Mineral Economics Division (ME)
- (iv) Technical Consultancy Division (TC)
- (v) Mining and Mineral Statistics Division (MMS)
- (vi) Planning and co-ordination Division with two sub-divisions viz.  
(1) Planning and Co-ordination and (2) Administration.

**Fig No. 1:** The existing set-up is shown in the following organisation chart.



## 2.3 Modern Mineral Processing Laboratory and Pilot Plant

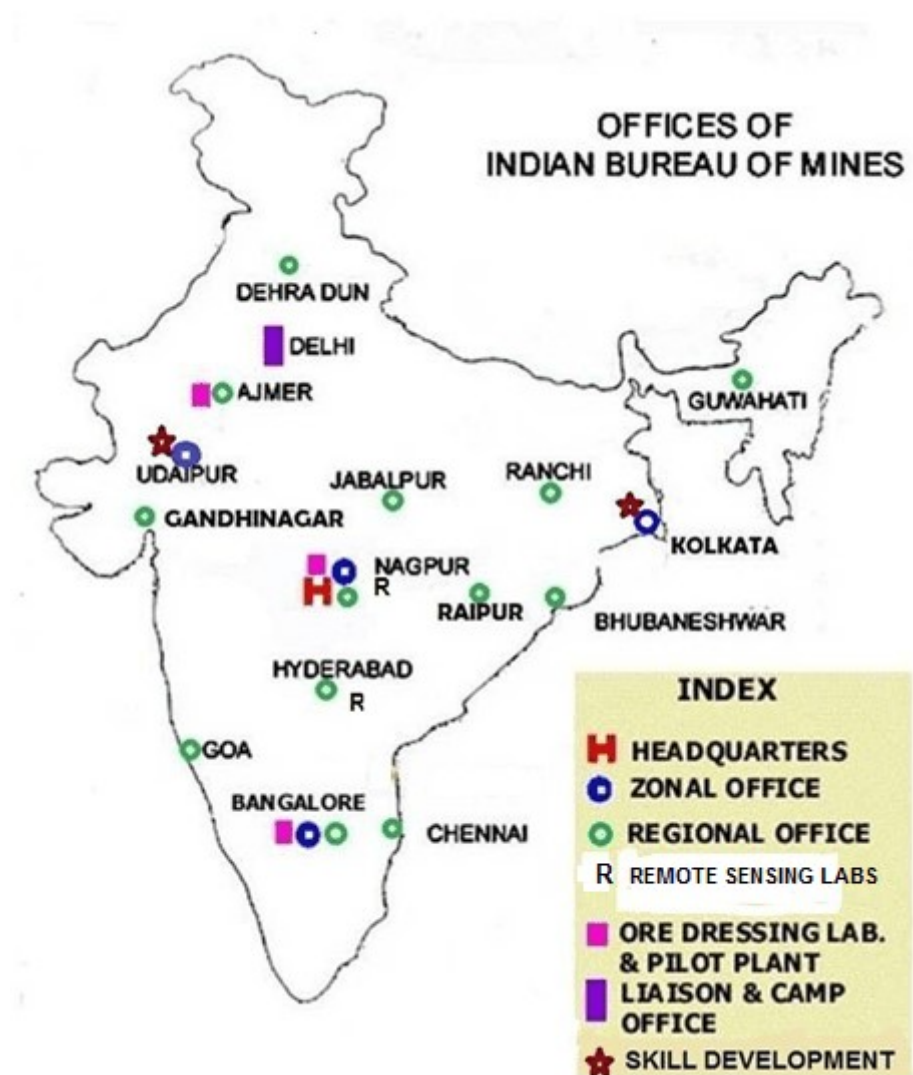
UNDP aided Modern Mineral Processing Pilot Plant and Analytical Laboratory of IBM is located at MIDC Hingna, Nagpur.

### 2.3.1 Regional Ore Dressing Laboratories

The Bureau has two Regional Ore Dressing Laboratories and Pilot Plants at Ajmer and Bangalore to cater to the mineral beneficiation needs of the neighbouring areas.



**Fig No. 2:** The location of Zonal, Regional Offices and Regional Ore Dressing Laboratories are shown in the map.



\* New Cell has recently been opened at Vijayawada in the State of Andhra Pradesh and action for opening of full fledged Regional office is in progress.

### 3.0 Schemes under implementation in IBM

**All activities of IBM are being conducted through the following Schemes.**

- Scheme No 1.** Inspection of Mines for scientific and systematic mining, mineral conservation and mine environment
- Scheme No 2.** Mineral Beneficiation Studies, utilization of low grade and sub grade ores and analysis of environmental samples.
- Scheme No 3.** Technological Upgradation and Modernization
- Scheme No 4.** Collection, processing, dissemination of data of mines and minerals through various publications
- Scheme No.5.** Mining Tenement System(under implementation)

#### 3.1 Brief Description of Objective & Activities of the Schemes

**3.1.1 Scheme No.1: Inspection of Mines for Scientific and Systematic mining, mineral conservation and mines environment.**

##### 3.1.1.1 Objective:

Promotion of conservation and scientific development of mineral resources and ensuring protection of mines environment in mining area through statutory enforcement as well as through promotional activities by carrying out periodical inspection/study of mines.

##### 3.1.1.2 Brief Activities

Important activities include inspection of mines for enforcement of the provisions of Mineral Conservation and Development Rules, (MCDR) 1988/2017 and relevant provision of Mines and Minerals (Development and Regulation) Act, (MMDR) 1957, Mineral (other than Atomic & Hydro Carbon Energy Minerals) Concession Rule [M(OAHCEM)CR],2016, Environment (Protection) Act, 1986, and rules made there under, Processing and approval of mining plans, review of mining plans, modifications in approved mining plans and mine closure plan, star rating of mines under sustainable development framework, scientific studies (lump-fineratio, threshold, RMGS etc.,) Task force/ joint inspections with State Govt., handholding with State Governments to facilitate auctioning of mineral blocks, organizing mines environment and mineral conservation weeks to promote awareness to minimize environmental degradation as well as to boost reclamation and afforestation activities, spot guidance to mines management in all the aspects of mineral development

followed with issue of violation/suggestions to adopt appropriate technology, launching prosecution against mine owners for violation of provisions of MCDR, 1988/2017 wherever necessary, facilitating government on saved cases of mineral concessions and other policy issues etc.

### **3.1.2 Scheme No. 2: Mineral Beneficiation Studies – utilization of low grade and sub-grade ores and analysis of environmental samples**

#### **3.1.2.1 Objective**

Most of the mineral deposits found in the nature fall short of the grade required by the consuming industries and therefore needs upgradation by ore dressing process. IBM suggests ways and means for their economic utilization as a part of conservation studies of the department which is a statutory obligation of IBM. This is primarily to help directly or indirectly to the mineral industry to exploit the mineral resources of the country.

#### **3.1.2.2 Brief Activities**

Important activities include development of beneficiation process flow-sheet/know how of low grade ores and minerals in laboratory and pilot plant scale and to generate process data/parameters for design of commercial concentrator, development of process parameters for agglomeration studies, mineralogical analysis/examinations, recovery of values from plant tailing and ore slimes, catering to the R & D needs in minerals beneficiation, special studies of Platinum Group of Elements (PGE), Rare Earth Elements (REEs) and technology metals, knowledge sharing with stakeholders, imparting training in mineral processing, mineralogy, chemical/environmental analysis to scientists from overseas and Indian Institutions etc.

### **3.1.3 Scheme No. 3: Technological upgradation and Modernisation**

#### **3.1.3.1 Objectives**

- (i) Implementation of Mining Surveillance System (MSS), Implementation of Application of Digital Aerial (Drone and Satellite) Images for mines monitoring.
- (ii) Consultancy services on charge and promotional basis to mining industry on mining, geological & environmental aspects.
- (iii) Development of new mining methods for scientific and systematic development of mineral resources and management of mining wastes.
- (iv) Human resources and infrastructure development in IBM.

### 3.1.3.2 Brief Activities

- a) Implementation of MSS which is a satellite-based monitoring system to establish a regime of responsive mineral administration, through public participation, by curbing instances of illegal mining activity through automatic remote sensing detection technology. The advantages of remote sensing technology-based monitoring system are that it is transparent, bias-free and independent system with deterrence effect ('eyes watching from the sky').
- b) Implementation of "SudoorDrushti" with National Remote Sensing Centre, Hyderabad, for monitoring of mining activities using satellite imagery and capacity building of IBM officers including technical support for setting up of remote sensing laboratory in IBM. The project would facilitate to monitor periodic changes of the mining areas within the mining lease boundary.
- c) Preparation of mineral maps with forest overlays covering the whole country with the details of free holds and lease holds areas and other prospecting mineral deposits, infrastructure etc. These multi mineral leasehold maps on a scale 1:50,000 with forest overlays are required to facilitate early environmental and forest clearance of mining projects by Ministry of Environment and Forests and Climate Change (MoEFCC), generation of environmental base line data for mining projects, preparation of Regional Environment Impact Assessment (REIA), Environment Impact Assessment (EIA) and Environment Management Plan (EMP) for mining projects as well as risk analysis and preparation of disaster management plan, geotechnical investigations, design of stoping methods and preparation of mining feasibility reports and detailed project reports.
- d) To Impart training to scientific, technical and other cadres of IBM and also to persons from the mining industry, state/central govt. organization to update the skill and knowledge as an adjunct to human resources development.

### **3.1.4 Scheme No.4: Collection, processing, dissemination of data on mines and minerals through various publications**

#### **3.1.4.1 Objectives:**

IBM collects data on mines and minerals through statutory returns and other means with a view to process, analyze and disseminate the data through various statistical and technical publications as **Indian Minerals Year Book, Monthly Statistics of Mineral Production, Mineral Industry at a Glance, Statistical Profiles of Minerals**. IBM publications are available on IBM website through weblink:

**[“https://ibm.gov.in/IBMPortal/pages/DOWNLOADS”](https://ibm.gov.in/IBMPortal/pages/DOWNLOADS)**.

#### **3.1.4.2 Brief Activities:**

Updation of National Mineral Inventory (NMI) by adopting UNFC system covering non-coal and non-atomic minerals in the whole country. It is a globally understandable system, incorporating existing terms in order to make them comparable and compatible, thus enhancing international communication. The reserves/ resource figures with their unique codes and terminologies clearly demonstrate the procedures adopted in the investigation and evaluation of mineral prospect. This is an essential activity to be continued in tune with the National Mineral Policy, wherein special thrust has been given for attracting private investment.

Collection of data through statutory returns, collection of ancillary statistics on fuels, minor minerals, metals production, mineral trade and market prices of minerals through correspondence with various agencies, collection of information on mining laws of various countries, market survey of demand and supply of minerals and metals, dissemination of data through periodic publications as Indian Minerals Year Book, Monthly Statistics of Mineral Production, Mineral Industry at a Glance, Statistical Profiles of Minerals etc., publishing state wise/mineral wise Average Sale Price (ASP) of minerals and metals for royalty calculation.

### **3.1.5 Scheme No. 5: Mining Tenement System (MTS)**

#### **3.1.5.1 Objective of the Scheme:**

MTS would primarily involve automating the entire mineral concession life-cycle, starting from identification of area and ending with closure of the mine; and connecting the various stakeholders for real-time transfer of

electronic files and exchange of data. This shall enable effective management of mineral concession regime and transparency in mining operations, transportation of ore with the help of online electronic weighbridges and check-posts.

In some developed countries like Australia and Canada, specialized software for processing and procedural part of granting various mineral concessions like RP, PL and ML has been designed and developed which is in operation since long. This system displays the details regarding ownership and other details such as area granted, mineral worked, tenure of the concession, taxes, compliance of rules and regulations, area available for grant, quality and quantity of the ore deposit, area relinquished after reconnaissance of RP and PL, prospecting reports available, details of infrastructure, land details with ownership status, etc. This online computerised system has been found very user friendly, as it provides the information in visual graphic form, known as Geographical Information System (GIS) and textual form. The computerization of land records, processing of applications for various concessions and transparency in the system has drastically reduced the time required for taking decisions in these countries. The information available online has speeded up the decision-making process and has attracted huge investment in mining industry.

### **3.2 Evaluation of IBM Schemes:**

At the beginning of the 15<sup>th</sup> Finance Commission period, the IBM schemes have evaluated by third Party namely Administrative Staff College of India (ASCI). Ministry of Mines, Government of India vide letter No.37/11/2017-Mines III dated 1.2.2021 has approved for engagement of Administrative Staff College of India (ASCI) for evaluation of the ongoing schemes of IBM. Evaluation Reports submitted by ASCI along with Scheme wise inputs in SFC Formats have been submitted to the Ministry.

Ministry of Mines vide letter No.37/11/2017-M.III dated 31.8.2021 conveyed approval for continuation of IBM Schemes in the period of 15<sup>th</sup> Finance Commission, with a direction to take suitable action on relevant provisions on Mining Technology furnished under Para No.6.3 to 6.5 and 9.2 to 9.4 of NMP 2019 and formulate appropriate Schemes for implementation of the provisions of NMP 2019. Accordingly, action is in progress.

### **3.3 IBM Advisory Board**

The formation of an Advisory Board is for strengthening the links between IBM and the various organizations interested in or connected with the functions of the IBM and to enable the Government to have objective appraisal of the effectiveness of the working of the IBM and of the ways and means by which its utility and effectiveness can be continually enhanced.

In view of the major changes in legislative framework brought about by the MMDR Amendment Act, 2015 & MMDR Amendment Act, 2021 & rules made there under, Government vide Order No.35/3/2015-M.III dated 2.7.2021 has reconstituted IBM Advisory Board to provide the appropriate advice to the Government to equip IBM in new scenario for its effective functioning. Action for preparation of Agenda items is in progress.



## 4.0 IBM performance during 2023-24

### 4.1 Salient Achievements 2023-24

- (i) For promotion of scientific development and conservation of mineral resources and ensuring protection of mines environment in mining areas, IBM carried out **1358** inspection of mines for enforcement of provision of MCDR, 2017 and examination of MP/RMP/Mod.M.P./FMCP, disposed 744 mining plans including review of mining plan.
- (ii) For up gradation and utilization of low grade and sub-grade ores and minerals, IBM carried out **48** Ore dressing investigations, 24,150 chemical analysis and 3004 **mineralogical** studies.
- (iii) Mining Tenement System: In the year 2023-24, IBM registration portal has been successfully integrated with NSWS portal on 1.5.23. Registration Module: During the FY 23-24 till March, 2024, a total of 701 Nos. of registration for different business domains has been carried out in the portal. Returns Module: Up to March, 2024, 1872 miners and 776 End Users have submitted Annual Returns for 2022-23. Mining Plan Module: During 2023-24, up to March, 2024, 744 Mining Plans have been approved online in IBM-MPAS.
- (iv) Star Rating of Mines: On the Portal for performance year 2022-23 so far 1254 lessees have filed SDF templates of which 803 templates are validated. Further new star rating templates have been prepared for small mines and large mines separately instead of common star rating templates for all the mines, for implementation from performance year 2023- 24 onwards. Circular has been issued for submission of T-40024/2/2023-TS-IBM\_HQ I/28904/2024 the Star Rating templates through online mode w.e.f 1.4.2024 in the new portal [https://miningplan.ibm.gov.in/STAR\\_RATING/](https://miningplan.ibm.gov.in/STAR_RATING/).
- (v) Mining Surveillance System (MSS): In the fourth phase in 2022-23, 138 preliminary triggers are generated for major minerals and uploaded on the portal for further transmission to the state governments. After field verification in respect of 40 triggers for major minerals have been received out of which unauthorized mining in

seven cases of major minerals have been confirmed by the state governments.

- (vi) Drone Data Management System: IBM at its Headquarters has recently commissioned its largest Data Centers with capacity of 131 Terabytes. Up to March, 2024, 1513 mines have submitted online Drone data on Drone Data Management System portal. So far up to March, 2024, total validated data as per the SOP is 324 of which 316 validated data has been uploaded on DDMS Portal.
- (vii) To sensitize the importance of mineral conservation and protection of environment, Mines Environment and Mineral Conservation Weeks were observed across the Country by all regions.
- (viii) For dissemination of data and statistics on mines and minerals, IBM released 18 statistical & Technical Publications and published **State wise/mineral wise Average Sale Price for Minerals and of Metals** for the month of February, 2024 has been hosted on IBM website. IBM for the first time published and hosted ASP for Strategic Metals up to August, 2023 on IBM website. IBM has recently made a giant leap forward with the advancements of its MTS Project by launching the New Average Sale Price (ASP) Module. This New ASP Module enables IBM to bridge the time gap in the release of the Average Sale price of minerals.
- (ix) **Inputs for Replying Parliament Questions (PQs) & Ministry References:** Inputs for replying 100 PQs and 514 Ministry references was furnished to Ministry.
- (x) **National Mineral Inventory:** Compilation of NMI as on 01.04.2020 in all respects and preparation of “NMI at a Glance” as on 01.04.2020 is completed and the same is uploaded on IBM website. The publication “NMI an Overview as on 01.04.2020”, has been uploaded on IBM Website. For Updation of NMI adopting UNFC as on 01.04.2023 in respect of 9 minor minerals namely barytes, calcite, corundum, diaspore, dolomite, gypsum, laterite, ochre and pyrophyllite, Collection of data is in progress.
- (xi) Implementation of amended Rule 45 of Mineral Conservation and Development Rules (MCDR) 1988/2017: Rule 45 of MCDR, 1988/2017 has made it mandatory for all mining lease holders, for any person, or

company engaged in trading or storage or end use or export of minerals mined in the country to register online with IBM to keep accounts of mineral flow. Up to March, 2024, registration position for major minerals plus 31 minor minerals was that: total 8096 Miners, 5477 units of end users, 10454 traders, 2964 stockiest and 1642 exporters have registered with IBM.

**(xii) IBM's Digital Foray toward e-governance attracts National Attention**

IBM in its effort to modernize its e-governance outreach has switched paths to hi-tech modes for effective regulation and to establish a digital regime of responsive Mineral Administration system. The newly developed MTS–Project Modules is one such e-governance tool put in place. In recognition of this, Elets Aatmanirbhar Awards 2024 has announced the nomination of IBM-MTS Project Modules for this coveted Award under the category “Digital Governance (e-governance Initiative for Government Service Delivery).

**(xiii) Human Resources Development :**As part of the capacity building of human resources, IBM conducted 16 training programmes have been organized in which 349 IBM, 46 State Government Officials and 333 Industry personnel participated and revenue of Rs.34,92,000/- was generated.

**(xiv) iGoT Courses:** 633 IBM employees have completed 6 mandatory iGoT courses. 6 video lectures of domain modules were uploaded on iGoT platform, 8 video lectures of domain modules were uploaded on IBM website whereas 2 video lectures uploaded on IBM you tube channel.

**(xv) Capacity Building Plan of IBM:** As per the recommendation of Technical Evaluation Committee and Price Bid Opening Committee, M/s. Ernst & Young LLP was entrusted to prepare Capacity Building Plan of IBM. Accordingly, letter of Intent (LOI) was issued to EY on 2nd January 2024 and work order was issued on 9.1.2024. Further, E.Y. has submitted its first Deliverable i.e. as-is Assessment of the Department (IBM) via email dated 23.1.2024, second Deliverable i.e. As-is assessment of the training needs of Employees and identification of potential interventions via email dated 13.02.2024 and 3rd Deliverable i.e. Draft Capacity Building Plan with a roadmap for implementation via email dated 1.03.2024. As per the directions of CG IBM, E & Y has made a presentation of ACBP before CG IBM through VC on 26.03.2024.

**(xvi) IBM commissioned one of its largest Data Centers**

IBM at its Headquarters has recently commissioned one of its largest Data Centers with capacity of 131 Terabytes. This capacity augmentation will help IBM in meeting its workload demands with improved efficiency.

**(xvii) Filling up of vacancies in Mission ModeRozgarMela :**DoPT vide O.M. dated 16.09.2022 informed that it has given the access to its Mission Recruitment Vacancy Status portal (the portal containing the details of vacancies to be filled on Mission Mode in r/o Ministry of Mines; **URL:** <https://doptonline.nic.in/mr/>) to the organizations under the administrative control of Ministry of Mines. Accordingly Offer of Appointment issued in the year 2023-24 to 141 candidates.

**(xviii) Annual Performance Assessment Reports (APARs) in the SPARROW module:** IBM has introduced the Smart Performance Appraisal Report Recording Online Window (SPARROW) for writing APAR in respect of Group- 'A' & 'B' Officers and Group - 'B'(NG) & 'C' Officials for the period 01-04-2022 to 31-03- 2023 in the online module developed by the NIC. It was mandatory for all the offices to write APAR in respect of the Officers/staff working under them through online mode only with effect from 01.04.2023 and no physical APAR will be entertained under any circumstances.

**(xix) Blood Donation Camp at IBM HQ:** As a part of the programmes for Celebration of 76<sup>th</sup> Foundation Day of IBM, a voluntary Blood donation Camp was organized at IBM HQ on 28.04.2023 in association with Ashirwad Foundation GSK Blood Centre. IBM family participated enthusiastically and 43 employees donated blood in this camp. All the donors were felicitated with certificate of appreciation.

**(xx) Lifestyle for the Environment (LiFE) :**In accordance with DO letter received from MoEF&CC, a large variety of events/ activities have to be planned under Mission Lifestyle for Awareness (LiFE) before the World Environment Day on 05.06.2023. IBM, HQ, Nagpur organized Bicycle rally on 23.05.2023; Plastic Waste Collection Campaign at Office Premises of IBM HQ, Nagpur on 25.05.2023; Mass plantation drive on 29.05.2023 with divisional/sectional heads; awareness programme on Lifestyle best practices on 31.05.2023. Kolkata Zonal office, IBM organized a cleanliness drive cum plastic waste collection activity in and around the office premises under which the employees

of this office gathered the non-biodegradable single use plastic waste from the office surroundings in order to dispose-off the same. At Ajmer regional office, Plastic waste collection program was organized. Cleanliness campaign at office premises & residential colony & Plantation campaign of fruit bearing plants was conducted at Jabalpur Regional office, IBM. Gandhinagar Regional office conducted a Plastic Waste Collection Campaign at Office Premises. Office premises cleaning is also done at Ranchi Regional office. Other field offices of IBM are also enthusiastically participating in this programme.

- (xxi) **Swachhata Pakhwada:** During 2023-24, the IBM offices observed Swachhata Pakhwada during 16th-30th November 2023 in office premises as well in mining site areas, nearby villages and schools. IBM also observed Swachhata Hi Seva during 15.09.2023 to 01.10.2023. During the period activities like Bicycle rallies, walkathon, plastic waste collection, mass cleanliness drives, SUP ban awareness programmes, distribution of swachhata kits etc. taken up. IBM also joined Hon'ble PM's initiative Ek Tareekh Ek Ghanta Ek Saath programme. One hour cleanliness drive is observed in a IBM HQ and all its field locations on 01.10.2023. To pay tributes to Mahatma Gandhi Ji, mass plantation drive is observed in IBM HQ and all its field locations on 02.10.2023.

**(xxii) Special Campaign 3.0**

Special Campaign 3.0 with a focus on activities of field offices has been observed in IBM HQ and all other field locations during the period 02.10.2023 to 31.10.2023. In this campaign, record management 8000 files, Disposal of Scrap/ Obsolete items, Development of four Innovative ideas, 30 Outdoor special campaign activities in schools and other public places, Cleanliness and beautification of office premises, Eco-friendly and tourist attract activities in selected 15 mine sites have been proposed as targets. For Record Management 100 % target is achieved. (Against Proposed 4) 7 innovative ideas are implemented including development of 3 compost pit sites one each at Jabalpur regional office, Ajmer regional office and Govt. run school in Ranchi, Development of herbal garden and Badminton court at EZ Kolkata office and Development of Volleyball court at Bangalore office. 51 Outdoor special campaigns in schools and other public places are implemented against target of 30. Space to the tune of 2182 Sq Ft space is freed and Rs. 4,43,420/- revenue is generated through disposal of obsolete items / scrap. Fit India Run 4.0 has been organized at all 16 locations of IBM in the country during this campaign period.

## 5.0 Activity wise Performance of IBM 2023-24

The activities of IBM have been conducted through the four continuing schemes encompassing the mandates as enshrined in its charter of functions, by six divisions of IBM. Performance relating to various activities of IBM during the year 2023-24 is given hereinafter.

### 5.1 Inspection of Mines

During the year 2023-24, total 1358 inspections for enforcement of the provisions of Mineral Conservation and Development Rules (MCDR) 2017 and for examination of mining plans/ review of mining plan /mine closure plans were carried out. Consequent to inspection of mines, 998 violations were pointed out as against 1314 violations in 2022-23, in respect of 489 mines. Total 331 violations were rectified during the year. 111 violations were further rectified after issue of show cause notices. Mining operations were suspended under Rule 11(2) of MCDR 2017 in 49 mines for not carrying out mining operations in accordance with the approved mining plan/ review of mining plan.

Details of state wise inspections carried out during 2023-24 are indicated in table No. 5.1A and follow up of MCDR administration in the form of violations pointed out etc are shown in table No. 5.1B.

**Table No.5.1A: Inspection of Mines carried out by IBM during 2023-24**

Sl.No.	State	MCDR	Mining Plan	Total
1	Andhra Pradesh	79	48	127
2	Assam	02	01	03
3	Bihar	0	0	0
4	Chhattisgarh	48	47	95
5	Goa	08	08	16
6	Gujrat	73	66	139
7	Haryana	0	0	0
8	Himachal Pradesh	24	06	30
9	J & K	05	04	09
10	Jharkhand	38	19	57
11	Karnataka	71	47	118
12	Kerala	1	0	1
13	Madhya Pradesh	153	73	226
14	Maharashtra	58	23	81
15	Manipur	0	0	0
16	Meghalaya	08	12	20
17	Orissa	102	43	145
18	Punjab	0	0	0
19	Rajasthan	68	43	111
20	Sikkim	0	0	0
21	Tamil Nadu	51	70	121
22	Telangana	24	14	38
23	Uttaranchal	0	01	01
24	Uttar Pradesh	20	0	20
25	West Bengal	0	0	0
TOTAL		833	525	1358

Note: MCDR includes Stopping inspection, joint inspection with DGM's, ministry reference inspection, MSS Inspection, stock verification inspection etc.



**Table No. 5.1B: Principal Violations of MCDR, 2017 detected by IBM during 2022-23 and 2023-24**

Rule No	No. of Violations Pointed out 2022-23	No. of Violations Pointed out 2023-24	Rule description
11(1)	391	452	Rule11 (1) - Mining operations in accordance with mining plans
11(3)	01	01	Rule 11 (3) - Submission of Review of Mining Plan / Scheme of mining
20	00	01	Rule 20 - Notice of opening of mine
23	00	00	Rule 23 - Submission of progressive mine closure plan
26 (2)	69	50	Rule 26 (2) - Responsibility of the holder of mining lease to submit yearly report
27(2))	72	20	Rule 27(2) - Submission of Financial assurance
28(1)	08	04	Rule 28 (1) - Notice of temporary discontinuance of mining operations
31(4)	34	45	Rule 31(4) - Maintenance of plans and sections
33	52	55	Rule 33 - Copies of plans and sections to be submitted
35,36,37, 38, 39,40,41, 42,43,44	54	120	<b>Protection of environment:</b> Rule 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 - Sustainable mining, removal and utilization of topsoil, Storage of overburden, waste rock Precaution against ground vibrations, Control of surface subsidence, Precaution against air pollution, Discharge of toxic liquid, Precaution against noise, Permissible limits and standards, Restoration of flora respectively.
45(5)(b)	110	03	Rule 45 (5) (b) - Submission of Monthly Return
45(5)(c)	27	44	Rule 45 (5)(c) - Submission of Annual Return
55(1)(c)(i)	12	18	Rule 55(1)(c)(i) - Employment of Whole time Mining Engineer/Geologist
55(1)(c)(ii )	20	05	Rule 55(1)(c)(ii) - Employment of Part time Mining Engineer/Geologist
Others	464	427	
<b>Total</b>	<b>1314</b>	<b>1245</b>	

## 5.2 Mining Plan, Review of Mining and Mine Closure Plan

The Mineral (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 and the Mineral Conservation and Development Rules, 2017 stipulate that mining operations are required to be conducted as per an approved Mining Plan and after extraction of minerals, the mines are required to be reclaimed as per an approved Mine Closure Plan. The Mining Plans are approved by the IBM and in case of mines of minor minerals including 31 notified (on 10.02.2015) non-metallic or industrial minerals; the powers have been delegated to respective State Governments. The Mine Closure Plan is required to comprise a Progressive Mine Closure Plan (PMCP) prepared for five yearly periods of the successive Review of Mining Plans which is now a component of Mining Plan and a Final Mine Closure Plan (FMCP), before the final closure of the mine. Mine Closure Plan is expected to address issues relating to environment protection including air, water and land protection, management of topsoil and overburden, reclamation and rehabilitation of land and control on ground vibration, surface subsidence and restoration of flora.

In line with the initiative undertaken by the Government of India for ease of doing business a new system for preparation & submission of Mining Plan /Review of Mining Plan / Modified Mining Plan has been launched under MTS. With the launch of Mining Plan Approval system (MPAS), the entire process of approval of mining plan has become online in digital form. The lessee can submit his mining plan, on the click of the mouse and the process has become simpler and less time consuming.

Till the year 2023-24 (upto 31<sup>st</sup> March 2024), Financial Bank Guarantees for a value of Rs.34,59,14,81,555/- i.e., Rs. 3459.1481555 crores[as per revised per hectare rate of Rule 27(1) of MCDR, 2017] have been collected and certificates under Rule 29A of MCR 1960 / 21(4) of MCDR, 2017 have been issued for 25 cases (excluding 31 minor minerals) of partial or full surrender of lease area.

As per the dashboard of Mining Plan (Including Mining Plan, Review of Mining Plan & Modification of Mining Plans), during the year 2023-24 till March, 2024, IBM approved 744 Mining Plan and 136 Mining plans (Including Mining Plan, Review of Mining Plan & Modification of Mining Plans) are under processing.

**Table No. 5.2A: State-wise Mining Plans/Review of Mining Plans / Schemes of Mining/Final Mine Closure Plans approved by IBM during 2023-24**

Sr No.	Information about mining plans for the year <b>2023-24</b>	No's
1	Mining Plans Applications Received during the year 2023-24= <b>727</b> Previous Year Mining plans under processing= <b>161</b>	<b>727 +161</b> <b>Total=888</b>
2	Mining Plans Approved	578
3	Mining Plans Pending & under processing	144
4	Mining Plans disapproved	114
5	Mining Plans Withdrawn	52

Note: The data has been reconciled with dashboard of Mining Plan the figures are corrected as per Mining Plan, Review of Mining Plan & Modification of Mining Plans.

### 5.3 Mineral Concession System

As per the Amendment to MMDR Act in 2015, the system of allocation of Mineral Concession has been changed from first come first serve basis to a transparent and non-discriminatory auction process. The Amendment also has brought in a uniform tenure of 50 years for Mining Leases.

The Mineral (Auction) Amendment Rules, 2022 were notified on 18.02.2022. As per the amended Rules, global positioning system has been allowed for identification and demarcation of the area where a composite licence is proposed to be granted through auction.

The Government has further amended the Second Schedule to the MMDR Act, 1957 for specifying the rate of royalty in respect of Glaucinite, Potash, Emerald, Platinum Group of Metals (PGM), Andalusite, Sillimanite and Molybdenum. This would ensure auction of blocks of these minerals/metals thereby reducing their import. Accordingly, the Minerals (Other than Atomic and Hydro Carbons Energy Mineral) Concession Rules, 2016 has been amended, vide notification dated 15.03.2022 for computation of ASP of metallic minerals, Glaucinite and Potash.

The Mineral Conservation and Development (Amendment) Rules, 2022 amended vide notification No. G.S.R. 294(E) dated 11.04.2022, to substitute different grades of iron ore in Forms in Schedule-I.

The Central Government notified the Reimbursement of Exploration Expenditure Rules, 2022 vide notification No. G.S.R.415(E), dated 03.06.2022, in order to prescribe the manner for reimbursement of expenditure incurred towards reconnaissance or prospecting operations. These rules shall be applicable only to such concession holders or applicants who had acquired a right for obtaining a prospecting licence followed by a mining lease or a mining lease, as the case may be, under section 10A (2) (b) of the Act and whose said right has lapsed on the date of lapse.

#### **5.4 Submission of Mining Plan in Online Portal**

The online mining plan module has gone live from 12.7.2022 and all mining plan submissions made after 12.7.2022 are accepted in the online portal of MTS i.e. [www.miningplan.ibm.gov.in](http://www.miningplan.ibm.gov.in).

#### **5.5 Sensitization Workshops/Meetings**

As per the charter of Function, IBM to act as a National Technical Regulator in respect of the mining sector, and lay down regulations, procedures and systems to guide the State Governments (first tier of regulation) as well as build up capacity in the system, both for regulatory as well as the developmental work, at the central level as well as at the level of the States. Accordingly IBM organized following Workshops & Meetings.

##### **5.5.1 Workshop on Star-rating at Goa Regional Office**

IBM's Goa Regional Office successfully conducted a one-day Workshop on Star Rating, Drone Survey /Satellite Image submission, Annual and Monthly returns submission on 15 May 2023 at M/s Dalmia Cement (Bharat) Limited, Yadwad&Kunnal Limestone Mine, Belagavi, Karnataka, for all the Mining Lease Owners, Mining Companies, Mine officials & QP of Goa Region. There was cent percent participation from the working leases of the region. A total of 64 participants benefited from this program. Awareness was imparted through elaborate FAQs and discussion.

##### **5.5.2 Workshop and QP Meeting by Jabalpur Regional Office**

दिनांक 10.05.2023 को जबलपुर क्षेत्रीय कार्यालय के तत्वावधान में मैसर्स अल्ट्राटेक सीमेंट लिमिटेड की सतना जिले में मैयर इकाई की भदनपुर गाँव में स्थित खदान कॉलोनी में समूह व्यावसायिक प्रशिक्षण केंद्र के प्रांगण में एक दिवसीय कार्यशाला के साथ QP मीटिंग का आयोजन किया गया।

कार्यशाला के उद्घाटन उपरान्त प्रथम सत्र में जबलपुर कार्यालय के उप खान नियंत्रक श्री इब्राहिम शरीफ ने स्टार रेटिंग टेम्पलेट भरने, श्री सुदीप मजूमदार, वरिष्ठ खनन भूविज्ञानी ने ड्रोन सर्वे व सेटेलाइट चित्रों के डिजिटल आउट पुट जमा करने एवं श्री माधव साबरे, वरिष्ठ खनन भूविज्ञानी ने वार्षिक / मसिक विवरणी जमा करने का प्रशिक्षण देने हेतु पावर पॉइंट प्रेजेंटेशन प्रस्तुत किया। प्रत्येक प्रेजेंटेशन के पश्चात प्रतिभागियों की शंकाओं का निवारण किया गया ताकि नियत समय अवधि में एक जुलाई 2023 से पहले बिना किसी गलती और वित्तीय दण्ड के इन औपचारिकताओं को पूरा कर सकें।

दोपहर के सत्र में QP मीटिंग का आयोजन किया गया जिसमें क्षेत्रीय खान नियंत्रक द्वारा ऑनलाइन खनन योजना दस्तावेज जमा करने के टेम्पलेट में पायी गई कमियों पर चर्चा करते हुए इसे उचित तरीके से जमा करने का प्रशिक्षण दिया गया जिससे कि अनावश्यक तममित इन्बा से बचा जा सके। कार्यशाला के आखिर में प्रश्नोत्तर सत्र में सभी की शंकाओं का निवारण किया गया। इस कार्यशाला में जबलपुर क्षेत्रीय कार्यालय के कार्य क्षेत्र की विभिन्न खदानों एवं संगठनों से लगभग 90 अधिकारी शिरकत कर लाभान्वित हुए। चार अतिमहत्वपूर्ण मुद्दों पर आधारित यह कार्यशाला बेहद सफल रही और सत्र में प्रतिभागी रहे लोगों ने इसे चिर - प्रतीक्षित, सही समय पर आयोजित एवं अतिमहत्वपूर्ण बताते हुए काफी ज्ञानवर्धक बताया।



**Workshop and QP Meeting by Jabalpur Regional Office (10.05.2023)**

### 5.5.3 Workshop at IBM's Jabalpur Regional Office

A one-day workshop on “Filing Star-rating Template; Annual /Monthly Returns; Submitting Drone Data and Mining Plan Document on MPAS portal” was organized by Jabalpur Regional Office on 09/06/2023. Shri Ibrahim Sharief, DCOM and Shri Madhav Sabre, SMG, were the Resource Persons for the workshop. About 30 officials from the Industry participated in the workshop.





Workshop on “Filing Star-rating Template; Annual /Monthly Returns; Submitting Drone Data and Mining Plan Document on MPAS portal” (09.06.2023)

#### 5.5.4 Refresher Training Session at IBM’s Gandhinagar Regional Office

On line web VC mode refresher training Session was conducted for the Miners under the jurisdiction of Gandhinagar RO, on 23.06.2023 for online uploading of Drone/Satellite Data on Drone Data Management System. Shri P.K.Bhattacharya, COM (MTS) and Shri Rajneesh Purohit, COM (NZ) addressed the participants. The common doubts were related to Login password, Userid, file types and Name of the Zip File to be uploaded etc. Around 54 participants attended the session.

An online secession was conducted on 28.06.2023 under the presence of COM (MTS), Nagpur for the lease holders of All region to address the difficulties to upload the drone data at DDMS portal.

#### 5.5.5 Workshop on Star Rating & MTS Modules at IBM’s Hyderabad Regional Office

The Hyderabad Regional Office of IBM organised a workshop on Star Rating in Mines & Mining Tenement System Modules at Hyderabad on 13.10.2023. Shri Sanjay Lohiya, Addl. Secretary (Mines), Ministry of Mines, Govt. of India & Controller General (I/c), IBM, presided over the workshop. Around 125 representatives from Non-coal Mining Sector from various parts of the country along with representatives from different associations, such as, FIMI, CII, Bagalkot Mine Owners Association, MEAI, AMD, DMG officials from Andhra Pradesh & Telangana and GSI participated in the day long workshop. Shri P.N. Sharma, Chief Controller of Mines, IBM and Shri P.K. Bhattacharjee, Controller of Mines (MTS), presented technical lectures on the subject. The workshop included an open interactive session where the participants expressed their views and their expectations on the subject matter. Shri Sanjay Lohiya, Addl. Secretary (Mines) & Controller General (I/c), IBM, during his concluding

remarks, assured the gathering that the views expressed would be duly considered while assessing the review of the Star rating system.



**Workshop on Star Rating & MTS Modules at Hyderabad RO (13.10.2023)**

#### **5.5.6 Workshop on “to popularize use of Mining Tenement System (MTS) for Industry and Prospective Investors” at IBM’s North Zone, Udaipur**

Under the aegis of the Office of the Controller of Mines (North Zone) Udaipur, a One-day Workshop entitled “To Popularise the Use of Mining Tenement System (MTS)”, was organized at Udaipur on 01.03.2024. About 86 participants took part in the workshop.



**Workshop to popularize use of Mining Tenement System (MTS) at Udaipur (01.03.2024)**



### 5.5.7 Workshop on “to popularize use of Mining Tenement System (MTS) for Industry and Prospective Investors”

भारत सरकार के आदेश की अनुपालना में आईबीएम के जबलपुर कार्यालय ने मंगलवार दिनांक 19.03.2024 को होटल पसरीचा में मध्यप्रदेश, उत्तरप्रदेश, महाराष्ट्र एवं छत्तीसगढ़ राज्यों के खनन पट्टाधारकों तथा संभावित निवेशकों के बीच एमटीएस के विभिन्न पोर्टल्स की उपयोगिता को अधिकाधिक लोकप्रिय बनाने के लिये प्रातः दस बजे से सायं साढ़े छः बजे तक एक दिवसीय कार्यशाला का आयोजन किया।

इस कार्यशाला में श्री योगेश गुलाबराव काले- खान नियंत्रक (मध्यांचल), श्री प्रसाद कुमार भट्टाचार्य जी, खान नियंत्रक (एमटीएस), श्री सूर्यकांत ढोके (वरिष्ठ तकनीकी निदेशक-NIC, नागपुर) एवं श्री प्रबीर कुमार मित्रा (वरिष्ठ तकनीकी निदेशक-NIC, दिल्ली) ने शिरकत करते हुए पावर प्वाइंट के माध्यम से अपना उद्बोधन दिया। जबलपुर क्षेत्रीय खान नियंत्रक ने खनन कानूनों के उद्भव और उनके समय-समय पर संशोधन विषय पर अपनी प्रस्तुति दी। श्री दर्शनदीप भारद्वाज -उप खान नियंत्रक ने पंजीयन पोर्टल पर तथा श्री संजय गिरहे - क्षेत्रीय खनन भूविज्ञानी ने खनन योजना अनुमोदन प्रणाली पोर्टल को सरल तरीके से उपयोग करने पर प्रस्तुति दी।

समापन समारोह से पूर्व प्रश्नोत्तर सत्र में प्रतिभागियों की शंकाओं का निराकरण किया गया। श्री गुमनाराम -प्रभारी नागपुर क्षेत्र ने पधारकर कार्यशाला की शोभा बढ़ाई। श्री माधवराव साबरे- वरिष्ठ भूविज्ञानी ने नोडल अधिकारी के रूप में समस्त व्यवस्थाओं को सुनिश्चित करते हुए पेशेवर ढंग से संपूर्ण कार्यक्रम का संचालन किया और अंत में श्री इब्राहिम शरीफ - उप खान नियंत्रक ने धन्यवाद ज्ञापित किया। इस कार्यशाला में भारतीय खान ब्यूरो के मध्यांचल की खदानों से 187 प्रतिभागियों ने शिरकत कर कार्यशाला का लाभ उठाया।



## 5.6 Mines Environment and Mineral Conservation (MEMC) week celebration

IBM plays a key role in fostering greater awareness and inculcates competition amongst the mine owners by organising Mines Environment and Mineral Conservation (MEMC) Week in different mining areas in the country towards the protection and restoration of mine environment with sustainable development. The Indian Bureau of Mines celebrated Mines Environment and Mineral Conservation (MEMC) Week under the territorial jurisdictions of its various regional offices during the year 2021-22 for creation and propagation of awareness on mineral conservation and environmental protection in mining areas.

### Celebration of Mines Environment and Mineral conservation (MEMC) Week

**5.6.1 Gandhinagar Region:** Final day function of 32nd MEMC Week 2022-23 was celebrated on 09.04.2023 at Porbandar, under the aegis of Indian Bureau of Mines, Gandhinagar Region. Pankaj kulshreth, CCOM (I/C) was chief guest and Sh. Rajnessh purohit was guest of honor of function.

**5.6.2 Dehradun Region:** Final day function of the 32 th MEMC week 2022-23 was Celebrated on 30.04.2023 at Chandigarh. Sri P.N.Sharma, CCOM(I/c)(MDR) graced the occasion as the chief Guest. Sh. Rajnessh purohit was guest of honor of function and State Mining Geologist, Department of Mines and Geology, Haryana Government as Guest were presided in the function.

**5.6.3 Guwahati Region:** Final day function of North East Mines Environment & Mineral Conservation Week MEMC Week 2022-23 was celebrated on 26/03/2023 at Shillong.

### 5.6.4 MEMC Week Jabalpur Region

जबलपुर क्षेत्र: भारतीय खान ब्यूरो के (जबलपुर क्षेत्र) के तत्वाधान में 33वें खान पर्यावरण एवं खनिज संरक्षण सप्ताह -2023-24, दिनांक 11.12.2023 से 16.12.2023 तक मनाया गया। दिनांक 10.12.2023 को प्रातः 11 बजे होटल पसरीचा - जबलपुर के प्रांगण में सप्ताह 2023-24 का आगाज मध्य प्रदेश एवं उत्तर प्रदेश राज्यों में अवस्थित विभिन्न खनिजों की 147 खदानों के निरीक्षण हेतु 12 टीमों को हरी झंडी दिखाकर रवाना किया। येटी में दी गई अनुसूची के अनुसार निरीक्षण कर को निर्धारित अंकतालिका में अपना प्रतिवेदन प्रस्तुत करेंगे जिनके आधार पर पारितोषिक वितरण समारोह आयोजित किया जाएगा। मेसर्स हिंदुस्तान

कॉपर लिमिटेड की बालाघाट जिले में स्थित मलांजखंड ताम्र परियोजना इस वर्ष के एमईएमसी सप्ताह के मेजबान की भूमिका अदा कर रही है।



जबलपुर क्षेत्रीय कार्यालय के तत्वावधान में 33वें खान पर्यावरण एवं खनिज संरक्षण सप्ताह का पुरस्कार वितरण एवं समापन समारोह 12.01.2024 को अपराह्न होटल पसरीचा लॉन्स में आयोजित किया गया। मुख्य खान नियंत्रक प्रभारी महोदय श्री पीयूष नारायण शर्मा साहेब ने समारोह के मुख्य अतिथि के रूप में शिरकत की और खान नियंत्रक (मध्यांचल) श्री योगेश गुलाबराव काले ने विशिष्ट अतिथि के रूप में कार्यक्रम की शोभा बढ़ाई। इस वर्ष के मेजबान मेसर्स हिंदुस्तान कॉपर लिमिटेड के निदेशक (खनन) ने समारोह की अध्यक्षता की।

11 से 16 दिसंबर 2023 तक मनाए गए इस सप्ताह के दौरान 08 समूहों में बट्टी 150 प्रतिभागी खदानों को 12 निरीक्षण टीमों द्वारा की गई जाँच के आधार पर प्रतिभागी खदानों को इस कार्यक्रम में पुरस्कृत किया गया। कार्यक्रम में लगभग 350 खनन पट्टाधारक, उनके प्रतिनिधि अधिकारी-कर्मचारियों एवं खनन क्षेत्र से जुड़े लोगों ने शिरकत कर कार्यक्रम को सफल बनाया।







### 5.6.5 MEMC Week Bhubaneswar Region

25th Mines Environment & Mineral Conservation (MEMC) Week" (Silver Jubilee) celebration, under the aegis of Indian Bureau of Mines, Bhubaneswar Region was hosted by Daitari Iron Ore Mines of OMC on 23.02.2024.

The event was themed on "Safeguarding the Future with Sustainable Mining" to create awareness & promote environmental stewardship, sustainable mining practices and technological advancements. Chief Controller Of Mines (I/C) MDRD, IBM, along with Controller of Mines (EZ), Director (Operations), OMC, Director (P&P), OMC graced the occasion. OMC Daitari, Bangur, Kodingamali, Tiringpahar, Jilling-Langlotta, South Kaliapani, Roida-C, Gandhamardan and Khandabandh mines won prizes under various individual categories as well as overall performance.



25th MEMC Week, IBM Bhubaneswar Region  
(Hosted by Daitari Iron Ore Mines of OMC on 23.02.2024)

### 5.6.6 MEMC Week Nagpur Region

नागपुर क्षेत्र: भारतीय खान ब्यूरो के (नागपुर क्षेत्र) के तत्वाधान में 34वें खान पर्यावरण एवं खनिज संरक्षण सप्ताह -2023-24, दिनांक 11.12.2023 से 16.12.2023 तक (आयोजक-माँडल), मनाया गया। जिसमें खानों का निरीक्षण, विभिन्न टीमों द्वारा किया गया, जिसका फ्लैग ऑफ सेरेमनी / निरीक्षण किट खानों के वरिष्ठतम अधिकारी / कर्मचारियों की उपस्थिति में, संयोजक /सदस्य निरीक्षण टीमों को प्रदान कर दिनांक 10.11.2023 को इंदिरा भवन, आईबीएम से हरी झंडी दिखाकर रवाना किया गया।

भारत सरकार, खान मंत्रालय, भारतीय खान ब्यूरो, नागपुर क्षेत्रीय कार्यालय के तत्वाधान में 34 वें खान पर्यावरण एवं खनिज संरक्षण सप्ताह 2023-24 का समापन एवं पुरस्कार वितरण समारोह का आयोजन दिनांक 02.03.2024 को M/s MOIL Ltd मेजबान, द्वारा गुमगांव मैंगनीज माइन के प्रांगण में किया गया। कार्यक्रम के मुख्य अतिथि श्री पीयूष नारायण शर्मा, मुख्य खान नियंत्रक (प्र), भारतीय खान ब्यूरो, नागपुर अध्यक्ष, श्री अजीत कुमार सक्सेना, सीएमडी, माइल, विशिष्ट अतिथि श्री पंकज कुलश्रेष्ठ, मुख्य खान नियंत्रक (प्र), एव डॉ योगेश जी काले, खान नियंत्रक (मध्य), भारतीय खान ब्यूरो, 34वे MEMCW समिति के चेयरमैन श्री एम एम अब्दुला, निर्देशक, संरक्षक, श्री जी राम, उप खान नियंत्रक (का.प्र.), नागपुर क्षेत्रीय कार्यालय, सचिव श्री राजेश भट्टाचार्य, माइन एवं अन्य निदेशक (वित्त, वाणिज्य ) माइल एवं नागपुर क्षेत्र के माइन्स के प्रतिनिधि, अधिकारी एवं कर्मचारियों की उपस्थिति में किया गया।

विजेता खदान के प्रतिनिधि को पुरस्कार से नवाजा गया। इस अवसर पर मंचासीन महानुभवों द्वारा तकनीकी souvenir एवं कैलेंडर का विमोचन किया गया तथा अपने भाषण से माइनिंग सेक्टर के रिफॉर्म, भारतीय खान ब्यूरो के ट्रांसफार्मेशन अनुरूप कार्य करने, तकनीकी एवं पर्यावरण के साथ सामंजस्य, देश की जीडीपी में खनन उद्योग की भूमिका आदि पर



प्रकाश डाला। खानों में काम करने वाले सबसे छोटी ईकाई “श्रमिक”, बदलते परिवेश में नारीशक्ति की खानों में भूमिका, एव उनके महत्वपूर्ण रोल पर प्रकाश डाला।



नागपुर क्षेत्र, के तत्वाधान में 34वें खान पर्यावरण एवं खनिज संरक्षण सप्ताह -2023-24, का फ्लैग ऑफ सेरेमनी (10.11.2023)



नागपुर क्षेत्रीय कार्यालय के तत्वाधान में 34 वें खान पर्यावरण एवं खनिज संरक्षण सप्ताह 2023-24 का समापन समारोह (दिनांक 02.03.2024)

### 5.6.7 MEMC Week Raipur Office

Final day function of MEMC Week 2022-23 was celebrated on 16/04/2023

The Flag off Ceremony of 7th MEMC week under the aegis of IBM, Raipur was conducted on 07.01.2024 at Hotel Sayaji, Raipur. The program witnessed Flag hoisting and Oath taking activities held under the superintendence of RCOM, IBM, Raipur, which was followed by a Briefing Session that rendered guidance to the Inspection team members for carrying out assessments in the requisite manner. Seven teams proceeded to visit mines located in Chhattisgarh during the MEMC Week to be celebrated from 08.01.24 to 13.01.2024.



#### 5.6.8 MEMC Week at Chennai Region

The concluding day ceremony of MEMC Week 2023-24 of Chennai Region was organized under the aegis of IBM's Regional Office at Chennai on 9<sup>th</sup> March, 2024 at Hyderabad. The MEMC Week celebrations were hosted by M/s Tamil Nadu Cement Corporation Limited.

#### 5.6.9 MEMC Week at Hyderabad Region

The concluding day ceremony of MEMC Week 2023-24 of Hyderabad Region was organized under the aegis of IBM's Regional Office at Hyderabad on 10<sup>th</sup> March, 2024 at Hyderabad. The MEMC Week celebrations were hosted by Parasakti Cement Industries Limited, Jettipalem, Palnadu dist.

#### 5.6.10 34th MEMC Week at Ajmer Region

The 34th MEMC Week 2023-24 of Ajmer Region organized under the aegis of IBM's Regional Office at Ajmer, drew to a close with a spectacular Concluding Day ceremony. Hosted by M/s JK Cements Ltd on 15.03.2024 at the mine site of Nimbahera, the Function saw participation of several mines of the Region. A total of 69 Major Mineral Mines of the Region that included 10 Underground Mines and 59 Opencast Mines were awarded with prizes and felicitations during the function.

Shri Abhay Agrawal, COM (NZ), graced the function as Chief Guest, and handed over the prizes to the Mines that were identified for their exemplary performance.





34th MEMC Week 2023-24 of Ajmer Region at the mine site of Nimbahera  
(hosted by M/s JK Cements Ltd on 15.03.2024 )

## 5.7 New Initiatives by MDR Division

### 5.7.1 Award for e-Governance Initiatives to IBM

IBM in its effort to modernize its e-governance outreach has switched paths to hi-tech modes for effective regulation and to establish a digital regime of responsive Mineral Administration system. The newly developed MTS–Project Modules is one such e-governance tool put in place. For this exemplary contribution in e-Governance Initiative for Government Service IBM received the Award trophy accompanied by Certificate of Recognition at the 2nd Elets Aatmanirbhar Bharat Summit held in New Delhi on 1.03.2024. This Award is especially for IBM’s e-Governance outreach initiative for putting in place the newly developed MTS–Project Modules – an effective e-Governance tool – in its newly established digital regime of responsive Mineral Administration System. The award was received by Shri P.N. Sharma, CCOM—MDR (I/c) & Shri Manish K. Maindiratta, RCOM – on behalf of Controller General, IBM.



Award for e-Governance Initiatives to IBM (01.03.2024)



### **5.7.2 Monitoring of mining activities using Digital Aerial (Drone and Satellite) Images:**

Government of India, Ministry of Mines has amended Mineral Conservation and Development Rules, 2017 in the year 2021 requiring submission of digital aerial images (Drone/Satellite) by the mineral concession holders/preferred bidders to Indian Bureau of Mines (IBM). Every lessee shall submit digital aerial image to IBM. Every lessee shall submit digital aerial image to IBM on or before 1st day of July every year. Further, all mine plans are required to be submitted along with the digital aerial images. The Standard Operating Procedure for submission of digital aerial images to IBM by lessee has been laid down by IBM in April 2022 and made available on IBM website which was modified based on the inputs received from the stake holders and placed on IBM website in April 2023. Vide Gazette Notification No. S.O. 719(E) dated 14th Feb 2023, the mineral concession holders have been directed to submit a copy of the Digital Aerial Images under Rule 34A of MCDR 2017 to the State Government while submitting Digital Aerial Images to Indian Bureau of Mines. A Drone Data Management System (DDMS) application has been developed in-house by IBM under Mining Tenement System project for online submission of Digital Aerial Images under Rule 34A of MCDR 2017 and was commissioned since 01.06.2023. Since then, all the images are being received online in the server installed at IBM HQ and the data can be used by all the stake holders.

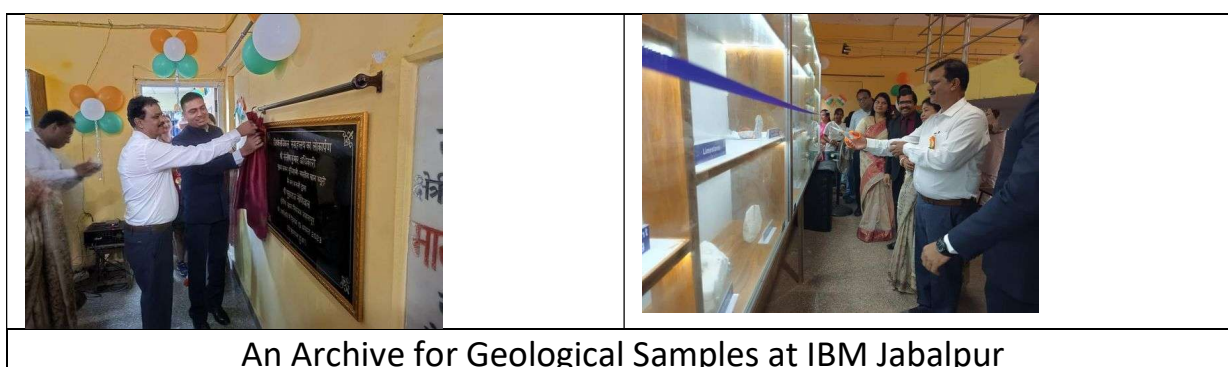
During the year 2023-24 as on March 2024, 1513 digital images have been received on DDMS portal. These digital images are being validated and analysed using GIS by the regional offices for the purpose of MCDR inspections.

For capacity building of IBM officials to process the drone and satellite image data on GIS platform, necessary hands on training on “Basics of GIS & Processing of Drone Survey Data” has been commenced from March 2022. Internal SOP for processing and utilization of Digital Aerial images of mining lease area has been specified for the officers of IBM. A road map has been carved out to train all the technical officials of the Minerals Development and Regulation Division through a series of in-house training program to develop expertise in analysing the aerial images and to make appropriate use of these images in inspection of mines and approval of mining plans. Till March 2024, thirteen training programs over 112 days involving 124 nos. of technical officers have been provided for effective use of digital images by the officers. One workshop was held on 13.01.2023 for

stake holders to enlighten about the utility of the drone surveys and issues observed in the data submission so as to ensure better compliance in future. The training and workshop has been conducted by GIS & Remote Sensing Centre, GM&MM Cell, IBM, Nagpur.

### 5.7.3 Inauguration of Geological Samples Archive at Jabalpur RO

As postlude to the Independence Day Celebrations, the Jabalpur Office of IBM arranged for an Inauguration programme of an Archive for Geological Samples. Shri S.K. Adhkari, Chief Mining Geologist, IBM, graciously inaugurated the Archive on 15 August 2023.



### 5.7.4 क्षेत्रीय खान नियंत्रक कार्यालय, हैदराबाद में भूवैज्ञानिक संग्रहालय का उद्घाटन

क्षेत्रीय खान नियंत्रक कार्यालय, भारतीय खान ब्यूरो, हैदराबाद में दिनांक 09.03.2024 को श्री पी. एन. शर्मा, मुख्य खान नियंत्रक (प्रभारी), मुख्यालय, नागपुर के कर-कमलों द्वारा कार्यालय में स्थापित किए गए भूवैज्ञानिक संग्रहालय का उद्घाटन किया गया। उद्घाटन समारोह में श्री आर. आर. डोंगरे, क्षेत्रीय खान नियंत्रक, भारतीय खान ब्यूरो, हैदराबाद एवं क्षेत्रीय कार्यालय के सभी अधिकारी एवं कर्मचारी उपस्थित थे। समारोह में विभिन्न खनन क्षेत्र से जुड़े उद्योगों के वरिष्ठ अधिकारियों द्वारा उपस्थिति दर्ज कराकर कार्यक्रम का मान बढ़ाया गया। उपस्थित उद्योगों के सभी वरिष्ठ अधिकारियों द्वारा भूवैज्ञानिक संग्रहालय में प्रदर्शित किए गए खनिजों एवं अयस्कों का अवलोकन कर हर्ष व्यक्त किया गया। श्री पी. एन. शर्मा, मुख्य खान नियंत्रक (प्रभारी), मुख्यालय, नागपुर द्वारा अपने उद्बोधन में क्षेत्रीय कार्यालय हैदराबाद एवं भूवैज्ञानिक संग्रहालय की प्रशंसा की गई। श्री आर. आर. डोंगरे, क्षेत्रीय खान नियंत्रक, भारतीय खान ब्यूरो, हैदराबाद द्वारा श्री पी. एन. शर्मा, मुख्य खान नियंत्रक (प्रभारी), मुख्यालय, नागपुर के प्रति आभार व्यक्त किया गया एवं कार्यक्रम में उपस्थित विभिन्न खनन क्षेत्र से जुड़े उद्योगों के वरिष्ठ अधिकारियों का धन्यवाद ज्ञापन किया गया तदुपरान्त कार्यक्रम की समाप्ति की गई।



भारतीय खान ब्यूरो, हैदराबाद भूवैज्ञानिक संग्रहालय का उद्घाटन (09.03.2024)

### 5.8 Capacity Building& Best out of Waste:

Indian Bureau of Mines has been instrumental in capacity building of IBM employees, personnel deployed in mining industry and State Government employees, through it's training programmes. Various trainings imparted include, training on MSS & space application, training on drone surveying, training on GIS, training on reserves/resource classification etc.

National Mineral Policy, 2019 thrusts on having an adequate and effective legal and institutional framework promoting zero-waste mining as the ultimate goal and a commitment to prevent sub-optimal and unscientific mining. In accordance with the National Mineral Policy, 2019, suitable provision has been made under Rule 12(1) (k) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016 for use of inferior grade mineral /waste as minor mineral. Overburden or waste rock; mineral below the threshold value, which is generated during the course of mining or beneficiation of the mineral; any minor mineral extracted along with the mineral for which lease is granted; are now allowed to be disposed off with the permission of the concerned State Govt. and in consultation with Indian Bureau of Mines. This has helped in marching towardsthe goal of zero waste mining and for generating the economy out of the dead stock.

### 5.9 Mineral Beneficiation

Mineral beneficiation studies including mineralogical testing and chemical analysis intimately relates to both conservation and development of mineral resources. During the year 2023-24, 48 ore dressing investigations, 24,150chemical analysis, 3004 mineralogical examinations were completed. Salient Data of Ore Dressing investigations on Iron Ore is available on IBM website on link :

[https://ibm.gov.in/IBMPortal/pages/Salient Data of Mineral Processing investigations on Iron Ore](https://ibm.gov.in/IBMPortal/pages/Salient%20Data%20of%20Mineral%20Processing%20investigations%20on%20Iron%20Ore)

**5.9.1 Some of the salient achievements of ore dressing investigations are as follows:**

#### **5.9.1.1 IRON ORE:**

**Bench Scale Beneficiation Studies on an Iron Ore (G2 Stage Exploration)  
Sample of Mankarnacha Iron Ore Project From Keonjhar and Sundargarh District, Odisha (For Directorate Of Mines and Geology, Odisha)**

The as-received sample assayed 51.96% Fe(T), 5.59% SiO<sub>2</sub>, 9.89% Al<sub>2</sub>O<sub>3</sub>, 10.10% LOI, 0.32% FeO, 0.59% K<sub>2</sub>O, 0.25% Na<sub>2</sub>O, 0.09% CaO and 0.10% P<sub>2</sub>O<sub>5</sub>.

Two process routes were developed viz. a) Jigging on coarse fraction followed by magnetic separation and b) Gravity separation employing tabling at different size fractions.

The best result was achieved by gravity employing tabling and concentrate assayed 63.54% Fe(T) 1.17% SiO<sub>2</sub>, 3.53% Al<sub>2</sub>O<sub>3</sub> and 4.45% LOI with Fe(T) recovery of 46.0% (Wt.% yield : 37.7).

#### **5.9.1.2 BAUXITE ORE:**

#### **ALUMINOUS LATERITE ORE**

**Bench Scale Beneficiation Studies On Aluminous Laterite Ore, G-2 Exploration  
Sample From Chichili Block, Jashpur, SU: Chhattisgarh for GSI, Raipur.  
(IBM/BNG/R.I. No. 970)**

The as received sample assayed 53.91% Al<sub>2</sub>O<sub>3</sub>, 10.45% Fe<sub>2</sub>O<sub>3</sub>, 1.32% SiO<sub>2</sub> (T), 0.96% SiO<sub>2</sub>(R), 10.49% TiO<sub>2</sub>, 1.08% CaO, 1.11% MgO, 23.98% L.O.I.

The best results were obtained by following routes

**Route-I** As received sample was crushed to all -10 mesh and screened over -100 mesh size followed by magnetic separation on both the -10+100 and -100 mesh fractions, yielded 56.99 % Al<sub>2</sub>O<sub>3</sub>, 0.89% SiO<sub>2</sub> (T), 8.25% TiO<sub>2</sub>, 7.82% Fe<sub>2</sub>O<sub>3</sub>, 24.74% L.O.I and recovery of 73.6 % and weight percent yield of 71.2.

**Route-II** As received sample was crushed to all -10 mesh and subjected to stage grinding to all passing 100 mesh size. The ground product obtained was

subjected to gravity separation. The composite concentrate (Table Middling + Table Lights + Table slimes) assayed 55.21%  $\text{Al}_2\text{O}_3$ , 9.5%  $\text{Fe}_2\text{O}_3$ , 10.14 %  $\text{TiO}_2$ , 1.22%  $\text{SiO}_2$ , and 23.76% LOI with  $\text{Al}_2\text{O}_3$  recovery of 98.2% and weight percent yield of 97.4.

The Table Heavies-I assayed 0.147 % V with wt. % yield of 0.5% whereas T-Heavies-II assayed 0.143% V with wt.% yield of 2.1%.

### **5.9.1.3 COPPER & GOLD:**

#### **COPPER ORE:**

**Bench Scale Beneficiation Studies on a low grade Copper Ore sample G-2 Stage Exploration, from Kesharpur East Copper Block, Mayurbhanj District, Odisha for Geological Survey of India, Bhubaneswar, SU: Odisha, Eastern Region(IBM/NGP/RI No. 2270).**

The as received sample assayed 0.61% Cu, 293ppm Ni, 131ppm Co, 0.153ppm Au, 6.18ppm Ag, 49ppm Cd, 57ppm Pb, 115ppm Zn, 54.87%  $\text{SiO}_2$ , 9.86%  $\text{Al}_2\text{O}_3$ , 62.13% Acid Insoluble, 11.85%, Fe(T), 1.86%  $\text{Na}_2\text{O}$ , 4.86%  $\text{K}_2\text{O}$ , 3.33%  $\text{CaO}$ , 2.44%  $\text{MgO}$ , 0.98% S(T).

Chalcopyrite is the main copper bearing mineral present in the sample

Flotation test conducted on original sample. The three rougher floats were combined and subjected to two stage cleaning produced a copper concentrate assaying 29.89% Cu, 0.72% Ni, 0.36% Co, 2.67%  $\text{SiO}_2$ , 3.46% Acid insoluble, 5.89%  $\text{Al}_2\text{O}_3$  and 28.28%, Fe(T) with the recovery of Copper, Nickel and Cobalt are 85.3% 43.4 % and 38.6% respectively (Wt.% yield 1.8).

The beneficiation study revealed that, the low grade Copper ore sample from Kesharpur, East copper block, Mayurbhanj District, Odisha is amenable to beneficiation and the grade of the is concentrate suitable for metallurgical use.

#### **COPPER ORE**

**Bench Scale Beneficiation Studies on a Copper Ore, G-2 Stage Exploration Sample from Kesharpur East Copper Block, Mayurbhanj District, for Geological Survey Of India, Bhubaneswar, State Unit: Odisha, Eastern Region(IBM/NGP/RI. No.2270)**

The as received sample assayed 0.61% Cu, 0.153 ppm Au, 293 ppm Ni, 131 ppm Co, 6.18 ppm Ag, 49 ppm Cd, 57ppm Pb, 115 ppm Zn, 350 ppm As, 54.87%



SiO<sub>2</sub>, 9.86% Al<sub>2</sub>O<sub>3</sub>, 62.13% Acid Insoluble, 11.85%, Fe(T), 1.82 P<sub>2</sub>O<sub>5</sub>, 1.86% Na<sub>2</sub>O, 4.86% K<sub>2</sub>O, 3.33% CaO, 2.44% MgO, 0.98% S(T).

Beneficiation study employing flotation test at - 200 mesh size produced a copper concentrate assaying 29.89% Cu, 0.72% Ni, 0.36% Co, 2.67% SiO<sub>2</sub>, 3.46% Acid insoluble, 5.89% Al<sub>2</sub>O<sub>3</sub> and 28.28%, Fe(T) with the recovery of 85.3% Cu, 43.4 %Ni and 38.6%Co respectively (Wt.% yield 1.8).

The laboratory scale beneficiation study revealed that, the Copper ore is amenable to beneficiation. Suitable copper concentrate could be produced with high recovery. Au, Ni and Co are associated valuables present in the sample.

### **COPPER ORE**

**Bench Scale Beneficiation Studies on a lean grade Copper Ore Sample of G-2 Stage Exploration From Lakhnauti and Ainti Block, Gwalior District, Madhya Pradesh(For Geological Survey Of India, Bhopal, SU: Madhya Pradesh)**

The as received sample assayed 0.094% Cu, 88ppm Zn, 50ppm Pb, 34.5ppm Ni, 21ppm Co, 77.75% SiO<sub>2</sub>, 7.89% Al<sub>2</sub>O<sub>3</sub>, 1.22%, Fe(T), 0.84% CaO, 1.4% MgO, , 92.18% Acid Insoluble and 1.30% LOI

Beneficiation study employing three 3 stages of rougher flotation followed by two stage cleaning yielded copper concentrate assay 16.43%Cu, 24.34% Acid insoluble with 77.6% recovery of copper (Wt.% yield 0.5).

### **COPPER ORE**

A copper ore sample received from Madhya Pradesh assayed 0.91% Cu, 0.3 ppm Au, 10.02 ppm Ag, 78.5 ppm Ni, 31.5 ppm Co, 123 ppm Zn, 102 ppm Pb, 21 ppm Cd, 10.5 ppm Li, 583 ppm As, 1.60% S(T), 67.46% SiO<sub>2</sub>, 4.14% Fe(T), 7.58% Al<sub>2</sub>O<sub>3</sub>, 2.23% K<sub>2</sub>O, 1.71% CaO, 1.59% MgO, 1.41% Na<sub>2</sub>O<sub>3</sub> and 1.60% LOI.

The process route evolved consisted of crushing and grinding followed by 3 stages of rougher flotation and 2 stages of cleaner flotation, yielded a 2<sup>nd</sup> cleaner float copper concentrate assaying 21.11% Cu, 2.35 ppm Au, 34.15 ppm Ag, 368 ppm Co, 134 ppm Ni, 12 ppm Cd with Cu recovery of 91.2% and wt.% yield of 3.9.

#### **5.9.1.4 BASE METALS ORE**

##### **BASE METALS ORE**

**Bench Scale Beneficiation Studies on a Base Metal (Lead And Zinc) Mineralization (G-2 Stage) Sample From Jaukulapalle, YSR Kadapa District, Andhra Pradesh (For Geological Survey Of India, Andhra Pradesh)**

The as received sample assayed 1.61% Zn, 0.29% Pb, 10.15% SiO<sub>2</sub>, 2.17% Al<sub>2</sub>O<sub>3</sub>, 2.52% Fe<sub>2</sub>O<sub>3</sub>, 25.25% CaO, 11.78% MgO, 0.25% BaO, 1.90% S, Co, Ni & Cu 60 ppm each and 33.38% L.O.I.

##### **Beneficiation study revealed that**

- (i) Pb 1<sup>st</sup> cleaner float yielded a lead concentrate assaying 20.27% Pb, 5.86% Zn with 87.5% Pb recovery (Wt.% yield: 1.3) and
- (ii) Zn 2<sup>nd</sup> cleaner float yields a Zinc concentrate assaying 40.86% Zn, 0.14% Pb with 84.5% Zinc recovery (Weight% yield being 3.4
- iii) Composite zinc concentrate (Zn 2<sup>nd</sup> cleaner float + Zn scavenger float) assayed 39.93% Zn, 0.28% Pb with 87.5% Zinc recovery (Weight% yield being 3.6).

The beneficiation study revealed that, the base metal sample from Jaukulapalle Block, YSR Kadapa district, Andhra Pradesh is amenable to beneficiation employing flotation process.

##### **BASE METAL**

**Bench scale Beneficiation studies on sample of from Adarshile- Dariba Block, Sikar District, Rajasthan was received from Geological Survey of India, Western Region, Jaipur, Rajasthan**

The as received sample assayed 0.50% Cu, 4.71% Fe(T), 38.58% SiO<sub>2</sub>, 9.45% Al<sub>2</sub>O<sub>3</sub>, 18.92% CaO, 6.25% MgO, 0.11% S(T), 0.05% TiO<sub>2</sub>, 0.012% Zn, 0.14% MnO, 1.50% Na<sub>2</sub>O, 2.16 % K<sub>2</sub>O, 0.007% Ni, 0.008% Co and traces of Pb, Mo.

Beneficiation study was carried out employing froth flotation process and copper concentrate assayed 38.69% Cu with 81.15% Cu recovery with 1.05% yield.

Beneficiation study was also carried out to recover calcite as a by-product from copper tailings. The flotation on rougher tails yielded a calcite concentrate assaying 47.46% CaO with 56.31% recovery (Weight yield 22.45%).

Bench scale beneficiation study of revealed that the copper ore sample is amenable to beneficiation. The study also revealed that calcite in the sample is upgradable and is recoverable as a by-product.

#### **5.9.1.5 MANGANESE ORE:**

##### **MANGANESE ORE**

**Bench Scale Beneficiation Studies on a lean grade Manganese Ore Sample of G-2 Stage Exploration From Kendudihi-Parulipada Block, Kendujhar District, Odisha (For Geological Survey Of India, SU: Odisha)**

The as received sample assayed 10.87% Mn(T), 25.75% Fe (T), 29.69% SiO<sub>2</sub>, 6.93% Al<sub>2</sub>O<sub>3</sub>, 0.01% CaO, 1.00% TiO<sub>2</sub>, 0.09% P<sub>2</sub>O<sub>5</sub>, 0.04% K<sub>2</sub>O and S(T) in Traces.

Two different process routes were developed but the best result was obtained by crushing the as received sample to - 10 mm size followed by wet screening jigging followed by tabling and Wet high intensity magnetic separation on composite slimes.

The combined composite concentrate assayed 21.72% Mn, 30.26% Fe(T), 10.81% SiO<sub>2</sub> and 4.04% Al<sub>2</sub>O<sub>3</sub> with Mn recovery of 44.1 % and Wt% yield 19.9.

##### **MANGANESE ORE**

Bench Scale Beneficiation Study on a low grade Manganese ore (Iron & Manganese) sample, G-2 Stage Exploration from Tatiba Block, West Singhbhum District, Jharkhand for Geological Survey of India, State Unit: Jharkhand, Ranchi.

The as received sample assayed 14.71% Mn(T), 22.14% MnO<sub>2</sub>, 22.86% Fe(T), 25.6% SiO<sub>2</sub>, 2.83% Al<sub>2</sub>O<sub>3</sub>, 0.41% TiO<sub>2</sub>, 0.38% P<sub>2</sub>O<sub>5</sub>, 1.22% CaO, 1.06% MgO & 0.21% K<sub>2</sub>O.

Bench Scale Beneficiation studies were carried out employing different techniques by varying various parameters to upgrade Manganese values present in the sample. The process route evolved consisted of magnetic and gravity separation processes of the wet sieve products of the as received fines



without grinding. The composite concentrate assayed 27.14% Mn(T), 39.15% MnO<sub>2</sub>, 9.14% SiO<sub>2</sub> and 26.90% Fe(T) with distribution of 27.0% Mn with weight yield of 15.5%.

#### **5.9.1.6 PLATINUM GROUP MINERALS**

**Bench Scale Beneficiation Studies on Platinum Group Minerals bearing drill core sample, G-2 stage exploration from Vellamari, Palakkad Attapdi valley, Kerala was received through Geological Survey of India, State unit : Kerala and Lakshadweep( IBM/BNG/RI. No 971).**

The as received original samples assayed 1423 ppb Pd, , 360 ppb Pt, 17 ppb Ru, 20 ppb Rh, , 14 ppb Ir, and. Apart from PGM the sample assayed 0.05 ppm Au, 5.1 ppm Ag, 0.06% Cu, 0.08% Ni, 0.35% As, 0.02% Zn, 0.01% Pb, 42.56% SiO<sub>2</sub>, 14.44% Al<sub>2</sub>O<sub>3</sub>, 8.0% Fe<sub>2</sub>O<sub>3</sub>, 8.88% MgO, 8.53% CaO, 0.65% S(T).

#### **Two process routes were developed for pre-concentration of PGE**

**Route -I:** Flotation at -300# yielded a PGM bearing float concentrate assaying 42 ppb Ru, 70 ppb Rh, 5947 ppb Pd, 51 ppb Ir and 1483 ppb Pt with recovery of 58.1% Ru, 69.5% Rh, 76.1%Pd, 70.5% Ir, and 72.4% Pt. (Wt.% yield :21.8).

**Route -II:** Gravity separation at differ size followed by flotation a composite concentrate ( combining Conc. I+II+III ) assaying 51 ppb Ru, 59 ppb Rh, 7141 ppb Pd, 39 ppb Ir and 1226 ppb Pt with overall recovery of 59.3% Ru, 63.9% Rh, 81.2%Pd, 57.4% Ir, and 64.6% Pt. (Wt.% yield :20.8).

#### **5.9.1.7 TUNGSTEN ORE AND ASSOCIATED MINERALS**

**Bench Scale Beneficiation Study on Tungsten Ore and Associated Lithium, Rubidium, Bismuth and Molybdenum Bearing Mineral in a G-2 Stage Exploration Sample From Rewat Hill Block, Degana, Nagaur Dist., Rajasthan (For Geological Survey Of India, Jaipur)**

The as received sample assayed 0.33% WO<sub>3</sub>, 894 ppm Li<sub>2</sub>O, 91 ppm Mo, 923 ppm Rb, 52 ppm Cs, 110 ppm Bi, 44 ppm Nb, 67.23% SiO<sub>2</sub>, 13.47% Al<sub>2</sub>O<sub>3</sub>, 3.94 Fe(T), 2.96% K<sub>2</sub>O and 1.6% LOI.

Detailed beneficiation studies were carried out employing two process routes. The best results was obtained by for recovery of tungsten, lithium and rubidium by gravity separation followed by combination of magnetic and gravity separation.

The concentrate assayed 54.29% WO<sub>3</sub> and 1121 ppm Bi with recovery of 54.7% WO<sub>3</sub> and 2.7% Bi along with weight yield of 0.35%.

Lithium values recovered from gravity product (midding, tabling & slimes ) was subjected to flotation. The composite float assayed 2732 ppm Li<sub>2</sub>O with recovery of 65.9% and weight yield of 24.6%.

#### **5.9.1.8 LIMESTONE:**

**Bench Scale Beneficiation Studies on Limestone Sample received from Industry, Tamil Nadu.**

The sample assayed 37.73% CaO, 21.46% SiO<sub>2</sub>, 2.78% MgO, 4.02% Fe<sub>2</sub>O<sub>3</sub>, 3.90% Al<sub>2</sub>O<sub>3</sub> and 26.78% LOI.

The objective of the study was to reduce the SiO<sub>2</sub> content in the sample to less than 12.0% and to increase the CaO content to more than 41.0% to make the ore suitable for cement grade by simple dry methods of beneficiation or otherwise by flotation process.

The Original sample was ground for in Pebble, Ceramic and Autogenous Mill (AG Mill) and then the ground product was dry screened. The best grade and recovery was achievable in case of autogenous mill (where the lumpy ore sample was used as grinding media). The minus 200 # of autogenous mill assayed 43.98% CaO and 13.28% SiO<sub>2</sub> with recovery of 64.1 % and wt yield 54.9%. The minus 500# product obtained by screening the minus 200# product of AG Mill assayed 46.29% CaO and 11.01% SiO<sub>2</sub> with recovery of 37.2 % and wt. yield 30.3 %.

By differential grinding and screening the desired grade of limestone concentrate could be obtained.

#### **5.9.1.9 GRAPHITE:**

##### **LOW GRADE GRAPHITE ORE**

**Bench Scale Beneficiation Studies On A Low Grade Graphite Ore, G2 Stage Exploration Sample From Oranga -Revatipur Area ,Balrampur District , SU: Chhattisgarh for GSI, Raipur. (IBM/AJM/R.I. No. 686)**

The proximate analysis of the as received sample assayed 4.90% Fixed Carbon, 3.05% Volatile matter, 0.32% moisture and 91.73% ash. The Ash assayed 4.36%

Fe(T), 63.16% SiO<sub>2</sub>, 9.69% Al<sub>2</sub>O<sub>3</sub>, 4.49% CaO, 6.75% MgO, 0.81% TiO<sub>2</sub>, 0.29% Na<sub>2</sub>O, 1.15 % K<sub>2</sub>O, 8.62% LOI.

The beneficiation techniques adopted to obtained best results was stage crushing the as received sample to all passing 10 mesh size. The all passing 10 mesh size sample was ground to all passing 150 mesh size in ball mill followed by rougher flotation. The rougher float obtained was subjected to 8 stages of cleaner flotation followed by re-grinding the cleaner float after each 2 stages of the cleaning. The 8th cleaner float produced a graphite concentrate assayed 68% FC with 66.43% Recovery (wt% yield 4.79%).

Bench scale beneficiation study of low grade graphite ore revealed that the sample is amenable to beneficiation and the Fixed Carbon value is upgradable to higher grade with satisfactory recovery.

### **GRAPHITE ORE**

#### **Bench Scale Beneficiation Studies on a lean-grade Graphite ore Sample from Khalpadar Graphite Exploration Project, Rayagada (For Director of Mines and Geology, Odisha)**

The proximate analysis of the as received sample assayed 1.6% FC, 3.89% VM, 0.55% Moisture, and 94.24% ash. The ash analysis of as received sample is 68.34% SiO<sub>2</sub>, 11.39% Al<sub>2</sub>O<sub>3</sub>, 6.91% Fe<sub>2</sub>O<sub>3</sub>, 2.02%CaO, 1.60% MgO, 0.017%V<sub>2</sub>O<sub>5</sub> and 0.19% S(T), 0.21% Na<sub>2</sub>O, 2.0% K<sub>2</sub>O.

Beneficiation rought employing by minus 10 mesh size sample was stage ground to all passing 30 mesh followed by flotation. The graphite concentrate assayed 52.8 % FC, 6.56% VM, 39.82% Ash, 0.86% moisture with FC recovery of 97.3 % (Wt.% yield: 3.5).

### **GRAPHITE ORE**

#### **Bench Scale Beneficiation Studies on A Graphite Ore Sample, G2 Stage Exploration, From Adhmaniya Block, Palamu District, Jharkhand (For Geological Survey of India, Ranchi, Jharkhand)**

The proximate analysis of the as received sample assayed 10.78% Fixed Carbon, 0.20% V<sub>2</sub>O<sub>5</sub>, 2.62% Volatile matter, 0.39% moisture and 86.21% ash. The Ash assayed 0.028% Cu, 8.59% Fe(T), 56.37% SiO<sub>2</sub>, 8.72% Al<sub>2</sub>O<sub>3</sub>, 2.40%

CaO, 1.72% MgO, 0.54% TiO<sub>2</sub>, 0.073% Zn, 0.032% MnO, 0.23% Na<sub>2</sub>O, 2.67 % K<sub>2</sub>O, 4.25% S(T), 0.024% Ni, 14.01% LOI & 59.72% Al

The beneficiation process carried out by employing crushing, grinding, screening and various flotation techniques.

(i) The 5th cleaner float produced a graphite concentrate assayed 77.50% FC with 83.89% recovery and 0.23 % V<sub>2</sub>O<sub>5</sub> with 13.11% recovery, wt% yield 11.67%.

(ii) The magnetic separation on the graphite concentrate (5th cleaner float) produced a non-magnetic graphite concentrate assayed 86.17% FC with 77.69% recovery (wt% yield 9.72%).

(iii) Vanadium value was recovered from tailings of graphite by conducting flotation on combined rejects (RT+1st cleaner tails) which produced float assaying 0.66% V<sub>2</sub>O<sub>5</sub> with 55.63% recovery at 17.26 wt% yield.

The composite value of vanadium recovery is 0.49% V<sub>2</sub>O<sub>5</sub> with 68.74 % recovery

## **GRAPHITE**

### **Bench Scale Beneficiation Study on two low grade graphite ore sample of foreign origin**

I) The as received sample assayed 10.4% F.C, 87.53% Ash, 79.41% SiO<sub>2</sub>, 9.53% Al<sub>2</sub>O<sub>3</sub>, 0.86% S(T), 2.46% K<sub>2</sub>O, and 0.42% TiO<sub>2</sub>.

Beneficiation study employing froth flotation process with regrinding of rougher float, 1<sup>st</sup> and 3<sup>rd</sup> cleaner float separately yielded the 8<sup>th</sup> cleaner float assayed 83.02% F.C with recovery of 62.7% and 7.5% weight yield.

II) The as received sample assayed 9.20% F.C, 89.30% Ash, 64.23% SiO<sub>2</sub>, 13.39% Al<sub>2</sub>O<sub>3</sub>, 0.36% S(T), 3.90% K<sub>2</sub>O, and 0.91% TiO<sub>2</sub>.

Beneficiation study employing flotation, regrinding of rougher float followed by cleaner flotation and regrinding of 1<sup>st</sup> and 4<sup>th</sup> cleaner floats followed by cleaner flotation yielded the 6<sup>th</sup> cleaner float as graphite concentrate assaying 87.12% F.C with distribution of 71.5% (wt.% yield: 6.5).

### **5.9.2 Beneficiation studies of Mineral deposits set for auction.**

As per the amended Act, all exploration reports need to be made UNFC (2009) compliant before auctioning of mineral blocks, for which mineral

beneficiation study is an important aspect. The exploration indicates only the geological aspect. Beneficiation study indicates the viability of the block for commercial operations in view of feasibility and economics. Thus, beneficiation study has paramount and crucial role for the development of mineral deposits in India.

Since the year 2016, IBM has been carrying out bench scale beneficiation studies on all G2 Level of exploration samples of GSI, MECL and state DGM's. Till date studies on 145 nos. G2 Level samples of GSI, 15 nos. G2/G1 level sample of MECL and 11 Nos. G2 level sample of State DGM's have been completed. Beneficiation study on 09 samples of GSI are in progress.

### **5.9.3 MODERNISATION OF LABORATORIES, PROCUREMENT OF EQUIPMENT & INSTRUMENTS:**

Under modernization program, procurement of equipment and instruments at MMPL&PP, Nagpur and RMPL, Bengaluru are in progress through assistance from National Mineral Exploration Trust (NMET).

Various major instruments/equipment were procured during the month.

1. MMPL & PP, Nagpur: FE-SEM with EDS, Digital X-Ray Diffractometer, Air Pulsated Batac Jig & Leach Column.
2. RMPL, Bengaluru: Carbon & Sulphur Analyser, Spiral HG & MG & Rock Cutting & Thin Section Preparation Unit.

### **5.10 Measures for Abatement of Pollution and Environmental Protection**

The IBM undertakes inspections for the enforcement of provisions of MCDR, 2017 which include provision on protection of mine environment to ensure that due care is being taken by the mine operators. During inspection it ensures that mine operators are taking due care for preservation and utilization of top soil, storage of overburden / waste rocks, reclamation and rehabilitation of land, precaution against ground vibration, control of ground subsidence, abatement measures against air, water- and noise pollution, restoration of flora, etc. in addition to other conservation and developmental measures. Necessary guidance to mine managements/ operators are also given for systematic and scientific development of mine including protection of environment. While approving the mining plans, Review of mining plans of mining and mine closure plans, IBM ensures that environment impact assessment studies have been carried out and to that effect environmental management plan has been incorporated for its effective implementation, besides reclamation and rehabilitation of mined-out areas.

### **5.11 National Mineral Inventory (NMI)**

The NMI is based on UNFC system which is being used for making various decisions in the mining and exploration sectors by the domestic/foreign investors. Such a system has wide ramifications of use in different kinds of decision making and policy formulation concerning not only minerals but allied fields as well. NMI provides valuable database that enables planning, development and judicious management of the country's mineral resources. IBM in consonance with the contemporary demands in the Mineral & Mining Sector and in accordance with its mandate and functioning role as National Mineral Information Repository elicits cooperation & support from all Agencies engaged in different stages of exploration, i.e., reconnaissance, prospecting and mining, in collecting/collating data which after due process of analysis & vetting are woven into NMI database.

During the year 2023-24, Quinquennial updation of NMI as on 01.04.2020 for 46 major minerals was completed. Compilation of NMI as on 01.04.2020 in all respects and preparation of "NMI at a Glance" as on 01.04.2020 is completed and the same is uploaded on IBM website. The publication "NMI an Overview as on 01.04.2020", has been uploaded on IBM Website. For Updation of NMI adopting UNFC as on 01.04.2023 in respect of 9 minor minerals namely barytes, calcite, corundum, diaspore, dolomite, gypsum, laterite, ochre and pyrophyllite, Collection of data is in progress.

### **5.12 Statistical Publications**

IBM disseminates statistical information on mines, minerals, metals and mineral-based industries through various publications. Information on mineral production, stocks, dispatches, employment, inputs in mining, mining machinery and related matters received from the mine owners on statutory basis under the MCDR, 1988 and ancillary statistics on metals production, mineral trade and market prices of minerals, revenue from the mining sector, rent, royalty and cess on minerals, etc from other agencies is compiled regularly by IBM.

IBM has recently made a giant leap forward with the advancements of its MTS Project by launching the New Average Sale Price (ASP) Module. This New ASP Module enables IBM to bridge the time gap in the release of the Average Sale price of minerals. Pertinently, this New ASP Module was recently launched by the Hon'ble Union Minister of Mines, Coal & Parliamentary Affairs, Shri Pralhad Joshi, on 23.01.2024 at the Mines Ministers' Conclave in Bhopal. Based on this



New ASP Module in place, IBM has published the Average Sale Price for Minerals for the concluded month of December 2023 just in 21 days.

During the year 2023-24, IBM published ASP for Minerals and of Metals up to February 2024. Further, IBM started publishing ASP of strategic and critical mineral since September 2023.



### 5.12.1 Monthly Statistics of Mineral Production (MSMP)

This monthly publication contains information on Index of Mineral Production, state-wise mineral production and value, average sale price of minerals by grades etc.

### 5.12.2 Statistical Profiles of Minerals (Annual)

This publication gives a bird's eye view of most of the vital aspects of major minerals (except fuels and atomic minerals) produced in India. It contains information on production, value and stocks of minerals, labour employment and number of reporting mines for the current year. Besides, data on reserves, mining leases, life index of mineral resources, export and import of minerals are incorporated for the latest available year.

### 5.12.3 Indian Mineral Industry at a Glance (Annual)

This publication provides time series data on production of minerals, metals and mineral based products, consumption of minerals, labour employment and external trade. In addition, information on mining machinery, consumption of explosives, mining leases and afforestation in metalliferous mines are also presented for the latest year. The statistical publications released during the year 2023-24 include Monthly Statistics of

Mineral Production (MSMP) up to advance release of February 2023, Statistical Profiles 2021-22.

### **5.13 Consultancy Service**

IBM provides technical consultancy services on prescribed charges for geological appraisals, survey of the areas, preparation of feasibility study reports, environment impact assessment and environment management plan, selection of suitable mining equipment evaluation of feasibility report prepared by other consultants, financial institutions, etc. etc.

During the year 2023-24, “State of art Automation and Innovative Practices in Indian Non-Coal Mining Sector”, publication draft is prepared. In 2023-24, IBM Technical Consultancy and Mining Research Division also associated in formulation of offshore rules and Gold ore sampling work carried in with Mineral Processing Division of IBM.

### **5.14 Technical Publications**

IBM brings out technical publications relating to mines and minerals, mineral-based industries, trade, beneficiation, R&D activities, etc.

#### **5.14.1 Indian Mineral Yearbook (IMYB)**

IMYB is a flagship publication of IBM which is brought out in three (3) volumes. It consists of Part I having as many as 11 General Chapters, Part II consists of 18 Reviews on metals and alloys and Part III consists of 30 mineral reviews. This publication covers information on minerals and mineral-based commodities, their development, production, resources/reserves, consumption, trade and policy. It also includes world scenario. IMYB provides a status report of Mining and Mineral Industry in India on an annual basis. This publication has wide readership-both National as well as International.

The IMYB, 2021(data 2020-21), total 59 general/metals & alloys/mineral reviews were prepared, technically edited, finalized and sent to Publication section for print-release after consolidation of all chapters with the statistical data. Total 59 reviews of IMYB 2020(Advance Release) were uploaded on IBM Website.

Preparation of IMYB, 2022, was taken up for three separate volumes, viz. Volume-I for General Reviews, Volume-II for Metals & Alloys and Volume-III for



Mineral Reviews. Total 50 reviews of IMYB 2022(Advance Release) were uploaded on IBM Website. Preparation of remaining reviews is under progress.

#### **5.14.2 BULLETIN OF MINERAL INFORMATION (BMI)**

Bulletin of Mineral Information (BMI) is a half yearly Bulletin, published by IBM, a sole publication in the country of its nature, which provides information to mine owners and mining industry on court decision concerning mineral legislation, trade policy on minerals & metals; trends in mining lease and prospecting licenses along with R/P granted for mineral based industries in the country; the month wise production of various mineral based products and also high lights status of mineral and mining industries both in domestic & foreign sector.

In a nutshell, this publication provides concise & synthesized knowledge and information on mining of various metallic / industrial minerals of the country, explored through its respective mines. Bulletin on Mineral Information Oct.22 to Mar.23 & April 2023 to September, 2023 issues released during the year.

#### **5.14.3 BULLETIN OF MINING LEASES AND PROSPECTING LICENCES.**

The Bulletin of Mining Leases and Prospecting Licenses contains information on mining leases, prospecting Licenses as well as reconnaissance permits. The bulletin provides the distribution pattern of mining leases spread over in as many as 23 states with its break-ups into state-wise, district-wise, mineral-wise and sector-wise (Public & private) information demarcating high, medium and low mineral potential bearing districts. Exhaustive information on mining leases abridged concisely for easy assimilation will suit the convenience of readers/entrepreneurs or policy makers. Bulletin on Mining Lease and Prospecting Licenses 2022 was released during the year.

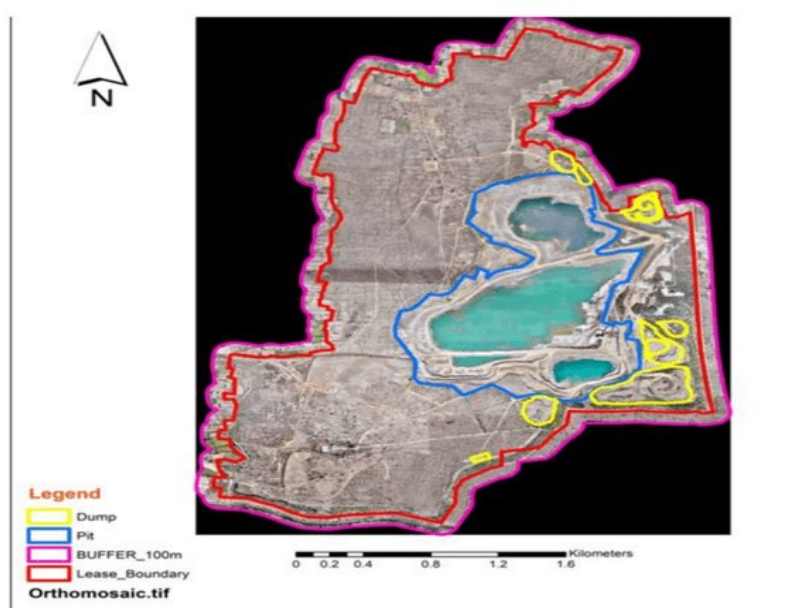
- i. Bulletins on Mineral information (BMI) (October 2022 to March 2023) is available at:- [169236058264df5f86c4d7dBMI\\_40\\_2.pdf \(ibm.gov.in\)](https://ibm.gov.in/writereaddata/files/169236058264df5f86c4d7dBMI_40_2.pdf)
- ii. Bulletins on Mineral information (BMI) (April 2023 to September 2023) is available at:- [170988057665eab50070eafBMI Apr Sept 2023.pdf \(ibm.gov.in\)](https://ibm.gov.in/writereaddata/files/170988057665eab50070eafBMI_Apr_Sept_2023.pdf)
- iii. Bulletin on Mining Lease 2022 is available at:- [https://ibm.gov.in/writereaddata/files/1699612501654e07551c594UPL\\_OADING\\_BULLETIN\\_11\\_11\\_2023.pdf](https://ibm.gov.in/writereaddata/files/1699612501654e07551c594UPL_OADING_BULLETIN_11_11_2023.pdf)

## 5.15 Activities carried out by GM&MM Cell, IBM, Nagpur

### 5.15.1 Generation of Land use classification map of mining leases on GIS platform:

An activity to generate land-use classification map of mining leases on GIS platform has been started since September 2020. The information of land-use area has been sought from the lessee through regional offices of IBM in .shp/.kml format. The activity involves plotting of land-use classification map on GIS platform checking & correcting KML or SHP file, conversion of KML file to SHP file, calculation of area of each land-use feature in attribute table and attachment of mine data to land-use attribute table. Upto December 2022, the land-use data has been received for 1229 mining leases out of which processing of data on GIS platform for all 1229 mining leases has been completed.

The geospatial database of land-use was created from the lease-wise details of land put to use for mining activity. This database can be used to generate customized maps & reports viz. state-wise, district-wise, mineral-wise, feature-wise, etc. for land-use classification by query analysis on GIS platform. During the year 2023-24, the existing database of land use classification map of mining leases is being updated based on drone data received and land use classification map of 50 mining leases has been generated till March 2024.

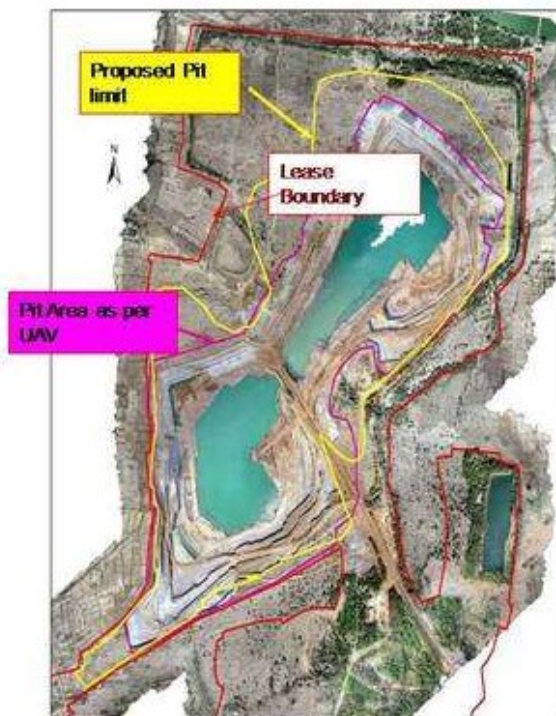


**Drone Image of a mine superimposed by GIS layers**

### Lease boundary pillar verification



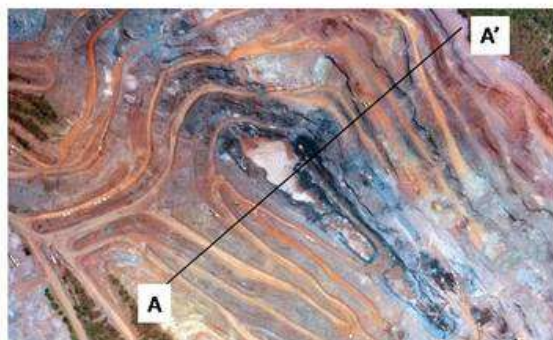
### Mine Pit Analysis



#### Pit dimensions & volume of excavation

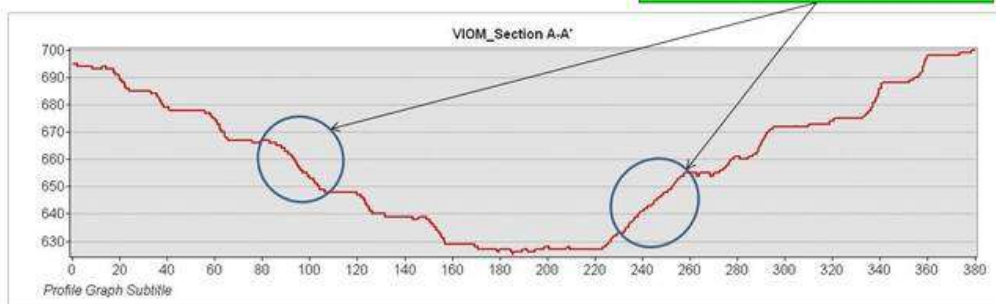
Area in m <sup>2</sup>	Area in Ha	Volume cub.m
1412192	141.22	2,34,13,192



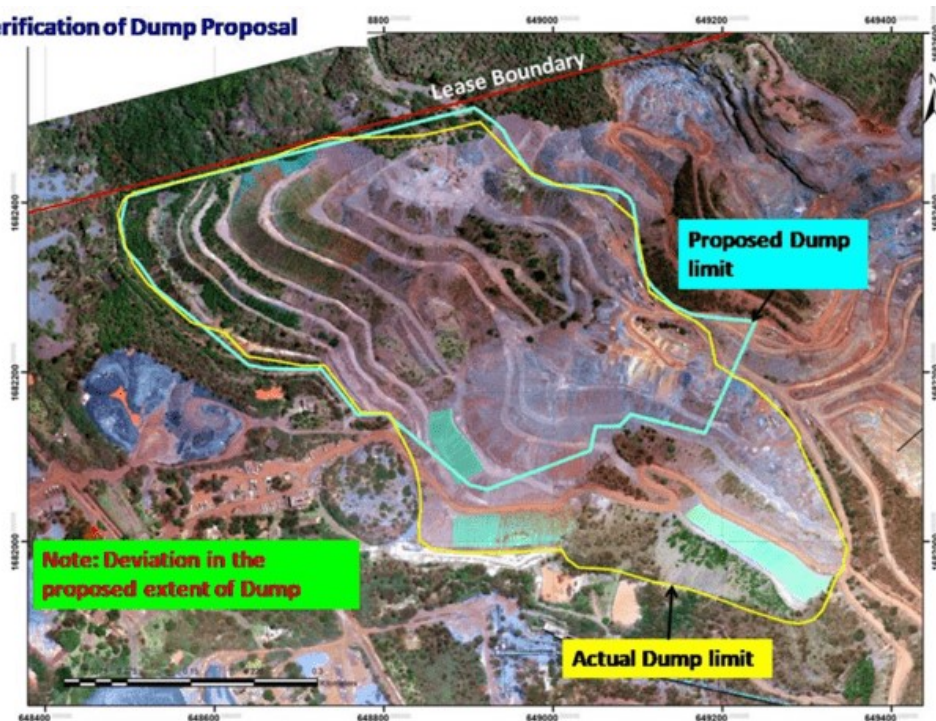


### Verification of Benches Height & Width

**Note: Height & Width of Benches not maintained as proposed.**



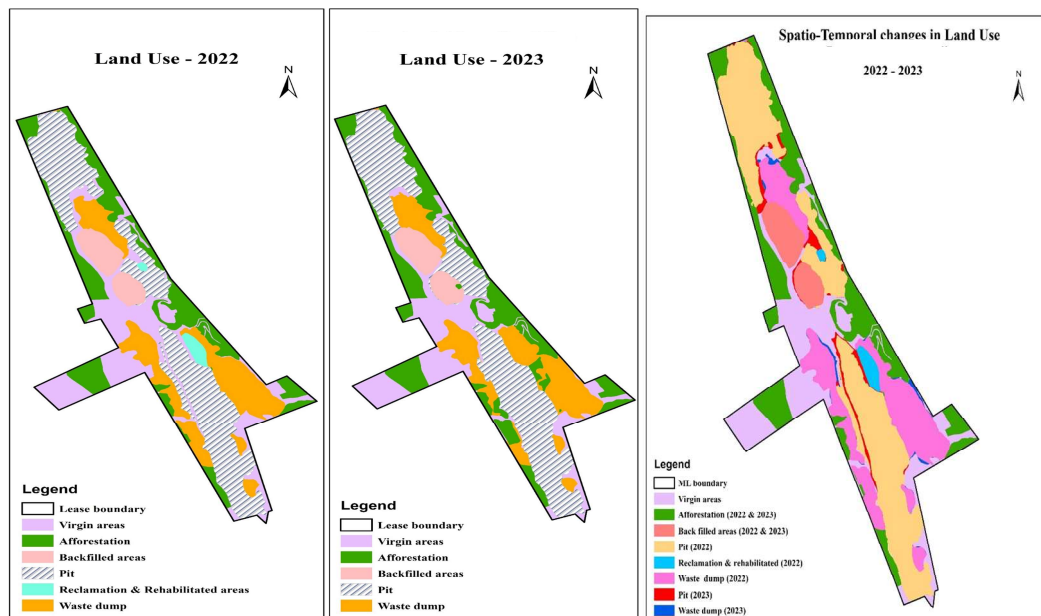
### Verification of Dump Proposal



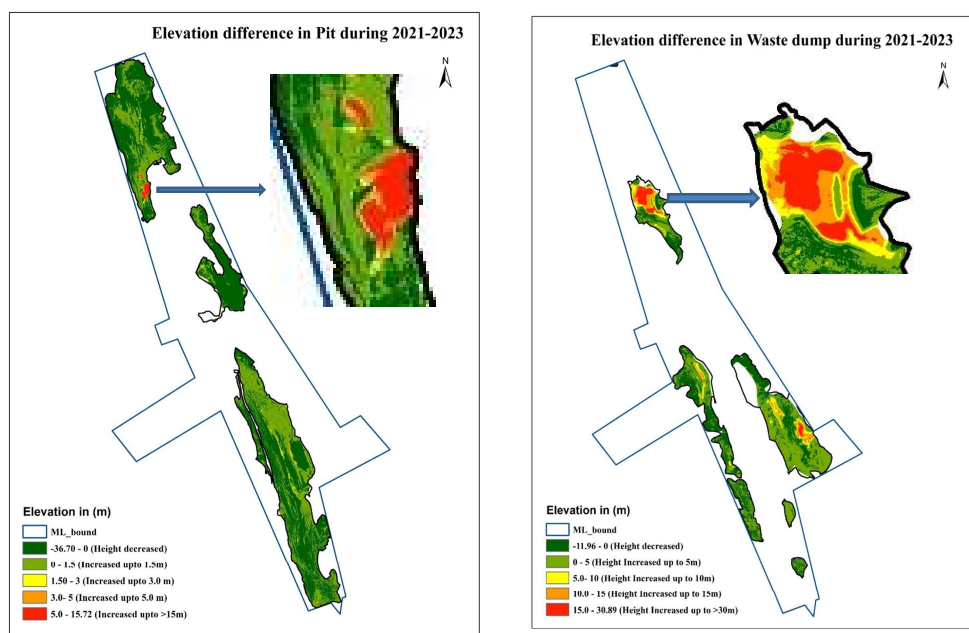


## Mine Reclamation & Rehabilitation Analysis

### Change Detection Analysis



## Change Detection Analysis



### 5.16 Training/ Human Resources Development

The Training Centre of IBM is headed by the Officer In-charge (Training) / Regional Controller of Mines. It is under the overall supervision of Controller of Mines (Planning & Co-ordination). It conducts in-house training programmes for its employees, state govt officers people from North-Eastern States and persons engaged in mining industry including overseas with the objective to provide them adequate orientation and updation in their fields of work.

The training imparted to IBM personnel is of 2 to 3 days which is being held at Headquarter and its regional offices as well as at two skill development centre located at Udaipur and Kolkata. Nominations are sought in advance. After approval of Competent Authority, training programme is organized through Classroom lectures / presentation by the faculties drawn from IBM as well as Industry.

IBM imparts training to technical and non-technical officials of IBM and also to persons from the mineral industry and other agencies in India and abroad. During the year 2023-24, 16 training programmes have been conducted, in which a total of 349 IBM personnel, 333 Industry officials and 46 from the State Government officials have participated. The total revenue generation from the industry personnel for 2023-24 is Rs 34, 92, 000/- (Rupees Thirty Four Lakh Ninety Two Thousand only). IBM makes its presence in the meetings as



organized by GSI/ MECL for its active participation, towards synergic approach. Presently the trainings are being conducted offline.

In last couple of years, IBM personnel had attended training programmes in outside organizations / institutes like GSITI, Kolkata National Remote Sensing Centre, Hyderabad.

#### **5.16.1 IBM's training modules on iGOT platform**

IBM had initiated its efforts to upload its training modules on iGOT platform, YouTube Channel and IBM website. As per the Ministry's letter No. A-33/2//2021-ESTT. Dated 05.07.2022 regarding uploading of training courses on iGOT portal, three topics/modules are identified for IBM for lecture videos i.e. (a) Mining reforms, (b) process of Mining lease to Lol & (c) Mining plan Approval. Therefore, IBM has initiated the process for preparing the lecture videos through training centre & expertise available in IBM, and prepared training videos related to the topics. So far, 02 videos have been uploaded on YouTube, 6 courses on i-GoT portal and further preparation of more interactive videos is in progress.

#### **5.16.2 Status of Capacity Building Plan of IBM-reg.**

Subsequent upon the Review Meeting chaired by Secretary (Mines) on 20.09.2023 on the matter of Mission Karmayogi and Ministry of Mines Letter No. A-33/2/2021-ESTT. (Part-1) dated 21.09.2023 regarding "Capacity Building Plan for Employees under the administrative control of M/o Mines", IBM issued Work Order for preparation of Capacity Building Plan of IBM to M/s Ernst & Young LLP on 09.01.2024.

In pursuance of RFQ No. IBM/TC/2023, the said agency submitted its draft Deliverable 1: 'As-Is Assessment of the Department (IBM)' via email dated 23.01.2024. Whereas, Deliverable 2: 'As-Is Assessment of the Training Needs of Employees and Identification of Potential Interventions' (Capacity Needs Analysis) was submitted on 13.02.2024 and draft Deliverable 3: 'Draft Capacity Building Plan with a Roadmap for Implementation' was received on 13.03.2024.

As desired by the Competent authority, M/s Ernst & Young LLP delivered a presentation on 26.03.2024 in the presence of Controller General (I/c) and senior officials of IBM. Approval of Draft Capacity Building Plan with a Roadmap for Implementation is under process.



### 5.16.3 Training Programmes conducted during 2023-24:

As part of the capacity building of human resources, IBM conducted 16 training programmes have been organized in which 349 IBM, 46 State Government Officials and 333 Industry personnel participated and revenue of Rs.34,92,000/- was generated. Training programmes organized includes:

**5.16.3.1** Training Centre organized a two-day training program for DDO/Dealing Assistants on 11th and 12th May, 2023 in which 55 participants from all the offices of Indian Bureau of Mines participated.



**5.16.3.2** Training Centre organized two training programme during June, 2023:

i) "Training on Registration and online submission of various returns- statutory provision and guidelines, filling of monthly and annual returns and common discrepancies observed during filling of returns", for industry persons from 13th June 2023 to 14th June 2023 at Hotel Leroy Grand, Bengaluru", in which

atotal of **127 personnel** of major mining industries from various parts country have participated and Revenue of Rs.11, 43,000/- was generated.

ii) Training programme on “Stoping practices and examination/scrutiny of stoping notices received under MCDR 2017” for inspecting officers of Indian Bureau of Mines from 14-15 June, 2023 at Skill Development Centre Udaipur in which 16 officers from all the offices of Indian Bureau of Mines participated.

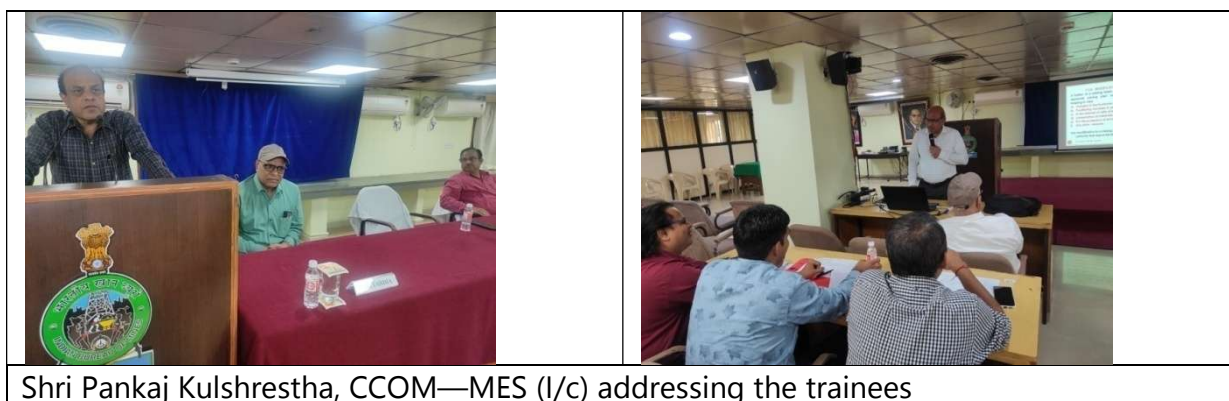
**5.16.3.3** Training Centre organized a “Training Programme on Establishment Matters” for IBM Officers/Officials from 5<sup>th</sup> to 6<sup>th</sup> July 2023 at IBM, Nagpur, in which 36 officers/officials participated.

**5.16.3.4** Training Programme on “Salient features of National Mineral Policy, Self-reliance in minerals, importance of Form L and M vis-à-vis online submission of returns under rule 45 of MCDR, 2017 and concept of average sale price of minerals – importance in mining & mineral sector was organized on 12<sup>th</sup> and 13<sup>th</sup> Sept. 2023 at IBM HQ in which 20 IBM Officers/officials participated.

**5.16.3.5 Training Centre organized two training programme during October, 2023:**

i) Training Programme on Mineral Exploration Techniques, Various methods of Reserve Estimation as per UNFC and provisions of ME & MC Rules 2015 was organized on 4<sup>th</sup> and 5<sup>th</sup> October 2023 at IBM RO Gandhinagar in which 21 IBM Officers/officials participated.

ii) A two-day Training Program on Online Mining Plan Approval System (MPAS) was organized at IBM Headquarters by the Training Center on 26 & 27 October 2023. The program was successfully completed. Officers from various offices of IBM participated in the program.



**5.16.3.6** Training Programme on “Sustainable Development Framework and Star Rating Reporting System, Validation of Star rating of Mines, Assessment of self-validated templates by the Miners” was organized on 29<sup>th</sup> and 30<sup>th</sup> **November, 2023** at IBM O/o COM(SZ), Bangalore in which 135 Industry personnel participated and Revenue of Rs.18,22,500/- generated.

**5.16.3.7** The training programme on “Progressive / final Mine closure plan and related restoration idea” for 29 state DGM Officials has been successfully conducted on 10.1.2024 at IBM, Nagpur.

**5.16.3.8** The training programme on “MINERAL PROCESSING, CHARACTERISATION AND CHEMICAL ANALYSIS OF ORES AND MINERALS” for the 39 Industry Personnel has been successfully conducted from 13<sup>th</sup> to 14<sup>th</sup> February 2024 at Modern Mineral Processing Laboratory and Pilot Plant, IBM, MIDC, Hingna Road, Nagpur and revenue of Rs.4,72,500 /- was generated. The trainees visited the laboratory, saw the facility, interacted with faculty and expressed that the training program is very useful.

**5.16.3.9** The training programme on “Latest amendments of Mining statutes and their implementation (MMDR Act 1957, MCDR2017, MCR2016, MEMCRules2015 & Mineral AuctionRule 2015” for the 17 NER State DGM officials has been successfully conducted from 5<sup>th</sup> to 6<sup>th</sup> March, 2024 at GSI Shillong, through Skill development Centre IBM, Kolkata.

**5.16.3.10 In addition, following training programs/Workshops/Lectures were organized:**

1. Skill Development Centre, East Zone Kolkata in association with Dr Manoj Verman, expert in Rock Mechanics related to underground and open pit stability, organized Workshop on “Slope Stability in open pit Mines: A Technology Showcase” from 16<sup>th</sup> & 17<sup>th</sup> January 2024 for Mining Industry officials at Hotel Westin, Rajarhat Kolkata.
2. Programme on “System & Procedure of the organization and measures of improvement are to be explored through training” at IBM HQ on 22.09.2023
3. Programme on “Role of I. O. and P. O. & enquiry procedure to be adopted’ at IBM HQ on 29.09.2023
4. Programme on “PIDPI Seminar (Public Interest Disclosure and protection of informers” at IBM HQ on 20.10.2023
5. Induction training programme for new entrants- Orientation course on various activities and functions of IBM as per charter of function At Regional Office Bhubaneswar / Jabalpur and IBM, Nagpur from 4<sup>th</sup> March to 15<sup>th</sup> March, 2024.

**6. Training Programme on Q-GIAS/in-house development of MLIS (Mining Lease Information System)** The above training programme was held at IBM Delhi Office for officers of IBM Regional Office Dehradun on 18.12.2023, in which 7 officers participated.

#### **5.16.4 IBM Organises Workshop on Procurement through GeM**

An Interactive session-cum-Workshop on procurement through Government e-marketing (GeM) portal for the attached/sub-ordinate offices and PSUs under Ministry of Mines was held at IBM Headquarters in Nagpur on 04th January 2024. About 85 officials from IBM, GSI, NALCO, HCL, MECL, JNARDDC and NIRM attended the Workshop through online/offline mode.

The Interactive session-cum-Workshop was inaugurated online by Smt. Nirupama Kotru, Joint Secretary & Financial Advisor, Ministry of Mines, New Delhi. Shri. Pankaj Kulshreshtha, CCOM I/C (MES), IBM, Shri A. Sengupta, Director, IFD, Ministry of Mines and Shri Hirak Dutta, Advisor for GeM, shared the dais. Shri Hirak Dutta along with Shri Sunil Kajal and Shri Devendra Chandra, both Deputy Directors from GeM presented an overview of GeM and described the existing and new features and functionalities of the GeM portal in a detailed manner and discussed in-depth about the use case scenarios of all features and functionalities. Procurement case studies of various organizations/CPSE were also shared with the participant.







An Interactive session-cum-Workshop on procurement through Government e-marketing (GeM) portal (04.01.2024)

**5.16.5 IBM personnel had attended training programmes in outside organizations / institutes like GSITI, Kolkata National Remote Sensing Centre, Hyderabad**

**5.16.5.1 Training programme on “Sensitization Programme on Developing Disaster Management Plans for line Organizations or offices of the Ministry of Mines”**

Shri Anil Khapre, Drawing Officer IBM Nagpur and Shri Deepak Sharma, SMG, IBM, Dehradun attended training programme on “Sensitization Programme on Developing Disaster Management Plans for line Organizations or offices of the Ministry of Mines” from 19 June, 2023 to 23 June 2023 organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India, in collaboration with Ministry of Mines.

**5.16.5.2 3-day Offline Training Programme for IOs/POs at CBI Academy from 28th to 30th November, 2023**

Following six officers of IBM attended the said training programme from 28-30 Nov. 2023 at CBI Academy, Ghaziabad.

1. Dr. Dilip Ranjan Kanungo, CODO, IBM, Nagpur.
2. Shri D.S. Walde, CME, IBM, Nagpur.
3. Shri Pukhraj Nenival, RCOM, IBM, Jabalpur.
4. Shri Manish K Maindiratta, RCOM, IBM, Designated Regional Office Delhi.
5. Shri Pushpendra Gaur, RCOM, IBM, Gandhinagar.
6. Dr. V A J Aruna, SO(OD), IBM, Nagpur.

#### **5.16.5.3 Geo-Spatial Technologies & Applications (GSTA) Programme at RRSC Delhi and NESAC Shillong,**

In a frame work of National Geospatial Policy-2022, ISRO, Department of Space conducted one-week training on Geospatial Technologies and Applications to various Geospatial domains from 21-25<sup>th</sup> November, 2023. Two officers namely Shri D.D.Bhardwaj, DCOM and Shri Sanjeeb Mahapatra, Senior Mining Geologist, IBM attended GSTA Training Programme at RRSC Delhi location and one officer Shri Subrata Kumar Muduli, SMG, Guwahati Regional Office, IBM, attended GSTA Training Programme at **NESAC Shillong Location.**

#### **5.16.5.4 National Training Programme on Gender Responsive Budgeting conducted by Ministry of Women & Child Development at New Delhi on 21 & 22.11.2023**

For strengthening institutional mechanisms at Central Ministries and State Governments for gender-responsive planning, budgeting, and monitoring, National Training Programme on Gender Responsive Budgeting was conducted by Ministry of Women & Child Development at Eros Hotel, Nehru Place New Delhi on 21 & 22.11.2023. Following two IBM officers attended the said programme.

1. Shri Nadella Ravi Kiran, Administrative Officer, IBM, Nagpur.
2. Shri P.M. Sundareshwar, Administrative Officer, IBM, Nagpur.

#### **5.16.5.5. Chief Information Security Officers (CISO) deep-dive training under Cyber Surakshit Bharat initiative of MeitY.**

Shri Darshan Deep, Bhardwaj, CISO & Deputy Controller of Mines, IBM, Nagpur attended the above mentioned training programme from 4-8 December 2023 at Indian Institute of Public Administration, New Delhi.

#### **5.16.5.6 Training Programme on “Advanced Remote Sensing Techniques in Mineral Exploration” at GSITI, Hyderabad.**

Following two officers from IBM attended the above mentioned Training Programme from 05.01.2024 to 24.01.2024. at GSITI, Hyderabad.

1. Shri Rudra Narayan Mishra, Sr. Mining Geologist, IBM, Nagpur.
2. Dr. Sudhakara T.L., Sr. Mining Geologist, IBM, Bangalore.



#### 5.16.5.7 Workshop on “Applications of NGCM Data available at NGDR Portal

The following two officers from IBM attended the above mentioned workshop on 31st January, 2024 at GSI, Nagpur.

1. Shri Sanjay M. Girhe, Regional Mining Geologist, IBM, Nagpur.
2. Smt. Pranita A. Sawant, Senior Mining Geologist, IBM, Nagpur.

#### 5.16.5.8 Workshop on “Offshore Exploration Synergies and Opportunities (OESO)

Following six officers from IBM to attend the one-day workshop on “Offshore Exploration Synergies and Opportunities (OESO)” followed by one day field visit from 15-16th February, 2024 at GSI, Mangaluru.

1. Shri B.L. Gurjar, Controller of Mines, IBM, Nagpur.
2. Shri Om Kesha Murthy MG, Regional Mining Geologist, IBM, Bangalore.
3. Shri Gaurav Sharma, Mineral Economist (I), IBM, Nagpur.
4. Shri Rudra Narayan Mishra, Sr. Mining Geologist, IBM, Nagpur.
5. Shri Prasanna Kumar Sampathi Rao, Dy. Ore Dressing Officer, IBM, Bangalore.
6. Shri Dhoora Ram Beniwal, Sr. Assistant Controller of Mines, IBM, Nagpur.

#### 5.16.5.9 Training course on International Taxation and the Extractives Sector

The Asian Development Bank (ADB), in collaboration with the Organisation for Economic Co-operation and Development (OECD) and the Intergovernmental Forum on Mining, Metals, Minerals and Sustainable Development (IGF), hosted a training course on International Taxation and the Extractives Sector on 22-26 May 2023 at ADB Headquarters, Manila, Philippines. Shri Anil H. Ramteke, Director, MMS Division attended the training course on online mode.

### 5.17 Revenue Generation

IBM generates revenue through consultancy, training, statutory processing and sale of publications & data etc. Revenue generated during 2023-24 includes:

- i) **4,37,23,010/- from** MP / RMP Processing Fees
- ii) **Rs. 1,36,27,851/- from** mineral processing assignments;
- iii) **Rs. 34, 92,000/- from** Training Fee
- iv) **2,00,000/- from** sale of publications, mineral inventory data etc.

## 5.18 Computerization

5.18.1 The Regional (Except Raipur & Gandhinagar RO) /Zonal offices and Headquarters of IBM have been linked through a sophisticated system based on client server architecture established with the help of BRGM, France. Proposal for connecting Raipur & Gandhinagar RO with said system along with VC facility is under process. IBM has well established LAN facility, besides WAN system to communicate and exchange data with Regional, Zonal offices and Headquarter offices. In all RO/ZO offices, VC facility is operational.

5.18.2 The Web Portal of IBM i.e. <https://www.ibm.gov.in> provides information on IBM's history, functions, organization, divisions of IBM and its activities, jurisdiction of regional and zonal offices, services offered by IBM. The upgradation of existing web portal is going on, which facilitates stakeholders with updated and faster information.

### 5.18.3 Submission of Returns:

After introduction of online submission of returns system consequent upon amendment to Rule 45 of MCDR, 1988 vide notification No. 75(E), dated 9<sup>th</sup> February, 2011, the mine owners have commenced submission of monthly and annual returns online. IBM is monitoring and guiding/ encouraging the mine owners and their representatives for online submission of returns. Further, online submission of Returns is mandatory as per the provisions of Rule 45 of MCDR 2017. The month-wise monthly returns submitted online are given in **Table –5.18**

**Table 5.18**

**Month-wise Returns Submitted online**

SI No.	Month	No. of monthly returns received online
1	April, 2023	1854
2	May, 2023	1843
3	June, 2023	1856
4	July, 2023	1887
5	August, 2023	1985
6	September, 2023	1875
7	October, 2023	1875
8	November, 2023	1879
9	December, 2023	1892
10	January, 2024	1897
11	February, 2024	1897
12	March 2024	1887

#### 5.18.4 Registration under Rule 45

The status of registration under Rule 45 of MCDR 1988 and **Online Registration of Mines / Leases as on 31.3.2024** is as follows:

##### **Online Registration of Miners, End Users, Traders, Stockiest and Exporters (Including 31 minor minerals)**

Serial Number	Particulars	Status at the end of March, 2024
1	No. of Miners	8098
2	No. of End Users	5494
3	No. of Traders	10474
4	No. of Stockiest	2977
5	No. of Exporters	1648
	<b>TOTAL</b>	<b>28691</b>

#### 5.19 Mining Tenement System (MTS)

Mining Tenement system (MTS) is a flagship project of Indian Bureau of Mines and it's a unique online based application. With MTS, IBM envisions digitizing its internal processes of the core modules which in turn can induct a workflow-based system to increase the efficiency and transparency in its charter of functions. As part of this project, IBM also envisions conducting enhancements, wherever applicable.

The following three modules launched of MTS Project are operating effectively.

Module1: Registration under Rules 45 of MCDR 2017

Module2: Monthly and Annual Return filing under Rule 45 of MCDR 2017

Module3: Mining Plan Approval System (MPAS) for submission of Mining Plan in the online module.

With the launch of Mining Plan Approval system (MPAS), the entire process of approval of mining plan has become online in digital form. The lessee can submit his mining plan, on the click of the mouse and the process has become simpler and less time consuming. This will be step forward toward digital India mission.

Apart from the above, following modules were launched during Jan-Mar 2024:

ASP Module: It was launched on 23.01.2024. The module has automated the system of publication of Average Sale Price (ASP) by IBM with substantial reduction in timelines for publication of ASP

Star Rating Module: It was launched on 31.03.2024. The module has been launched to facilitate filing and validation of Star Rating templates over MTS from 2024-25 onwards.

Additionally, following portals were developed by MTS Cell for ease of doing business and better monitoring & analysis of mining operations:

Drone Data management System: Rule 34A prescribes submission of Drone imageries for certain category of mines. For facilitation of online submission, Drone Data management System was developed.

Mine Imagery Data Processing and Analysis System (MIDPAS): The system was developed for processing and analysis of mine imagery data submitted along with Mining Plan.

Also, largest Data Centre of 133 TB storage capacity has been installed at IBM premises.

## **5.20 Sustainable Development Framework (SDF)**

**Star Rating System:** The Star Rating System is a good governance initiative, designed as a tool for mapping of mining footprints from the viewpoint of Sustainability. The Star Ratings is being awarded, based on evaluation of performance of mines on technological, socio-economic and environmental parameters, giving objective reporting of their activities. It has been instituted as a two-tier system providing self-evaluation templates to be filled in by the mine operator followed by validation through Indian Bureau of Mines. The Star Rating scheme is designed to have an inbuilt compliance mechanism for environment and forest safeguards and has been helpful in recognizing good performers in the sector while encouraging all mining lease holders to strive for excellence.

All the mine operators are mandated to achieve at least three-star ratings within a stipulated time period of four years from the date of commencement of mining operations or the date of notification of the rules (i.e. March 2017) whichever is later in accordance with Rule 35 of MCDR 2017. Failing which Mining operations are liable to be suspended.

Based on evaluation of the performance of mining lease holders on the various parameters encompassed by the principals of the Sustainable Development Framework (SDF), validation of self-assessed templates is carried out by IBM

and accordingly final ratings are awarded. Selected five star rated mines are recommended for award by Technical Evaluation Committee

The selected lease holders of five star rated mines are felicitated during National Conclave on Mines & Minerals held from time to time. The details of year wise awards given to 5 Star rated mines since 2014-15 are given below in Table 5.20:

**Table 5.20**

Performance Year	No. of 5 Star Rated mines selected for award	Felicitations held on
2014-15	9	4-5 July, 2016, Raipur (Chhattisgarh)
2015-16	32	15 February, 2017, New Delhi
2016-17	57	20 March, 2018, New Delhi
2017-18	57	23 November, 2021, New Delhi
2018-19	52	23 November, 2021, New Delhi
2019-20	40	23 November, 2021, New Delhi
2020-21	40	12th July, 2022, New Delhi
2021-22	76	1st March, 2023, Nagpur

During the year 2023-24, 1254 online templates for the performance year 2022-23 have been filed by the lessees. Validation of the submitted templates for final evaluation is under progress and so far in 608 leases field verification has been completed. The entire process is expected to be completed by 30th May 2024.

Further, on 13.10.2023, a Workshop was organized at Hyderabad for feedback over existing Star Rating System and based on the feedback received from the stakeholders, revised Star Rating Templates were launched on 23.01.2024 by the Hon'ble Union Mines Minister. New Templates are aimed to provide certain relaxations to the small mine owners having lease area less than 25 ha or production capacity upto 50000 T.



## 5.21 Mining Surveillance System (MSS)

Mining Surveillance System (MSS) is a satellite-based monitoring system which aims to establish a regime of responsive mineral administration by curbing instances of illegal mining activity through automatic remote sensing detection technology.

- Ministry of Mines & Indian Bureau of Mines (IBM) have developed the MSS, with assistance from Bhaskaracharya Institute for space applications and Geo-informatics (BISAG), Gandhinagar and Ministry of Electronics and Information Technology (MEITY).
- The system works on the basic premise that most minerals occur in the continuity and their occurrence is not limited to the lease area but is likely to extend in the vicinity. The MSS checks a region of 500 meters around the existing mining lease boundary to search for any unusual activity which is likely to be illegal mining. Any discrepancy is found is flagged-off as a trigger.
- The MSS is a transparent & bias-free system, having a quicker response time and capability of effective follow-up. The deterrence effect of 'Eyes watching from the Sky' would be extremely fruitful in curbing instances of illegal mining.
- A user friendly mobile app for MSS has been created and launched on 24th January, 2017 at Gandhinagar for enabling public participation in assisting the governments endeavor to curb illegal mining, which was being used by the inspecting officials to submit compliance reports of their inspections.
- In the initial phase, a total of 296 triggers across the country covering a total area of 3994.87 hectares wherein, 47 unauthorized mining have been confirmed after inspection of the triggers by the state government officials.
- The training of all the States for its adoption of the MSS for minor minerals has also been done.
- In the second phase, 52 major mineral triggers, have been detected from the 3280 plotted leases (Working Mines 1689 plotted out of 1694 and Non-Working Mines 1596 plotted out of 2129 ) across the country, out of which 45 have been verified by the State Governments and in 5 cases unauthorized mining activities have been identified.

- Similarly, in respect of minor minerals, so far, 130 triggers have been generated, out of which 104 have been verified and in 9 cases unauthorized mining activities have been identified.

In the third phase in 2021-22, 177 preliminary triggers are generated for major minerals and uploaded on the portal for further transmission to the state governments of which 98 triggers have been verified by State Governments so far and in 12 cases unauthorized mining activities have been identified.

In the fourth phase in 2022-23, 138 preliminary triggers are generated for major minerals and uploaded on the portal for further transmission to the state governments of which 40 triggers have been verified by State Governments so far and in 07 cases unauthorized mining activities have been identified.

Summary of Phase wise triggers generated is given below:

	Triggers Generated	Triggers Verified	Unauthorized Mining confirmed
Phase-I (Major) (2016-17)	296	286	47
Phase-II (Major) (2018-19)	52	45	5
Phase-II (Minor) (2018-19)	130	104	9
Phase-III (Major) (2021-22)	177	98	12
Phase-IV (Major) (2022-23)	138	40	07

## 5.22 Cleanliness Drive

In accordance with the directions received from time to time from the Central Government IBM organized following cleanliness drives during 2023-24. More details are included in the chapter on Celebrations by IBM.

### 5.22.1 SwachataPakhawada

SwachataPakhawada has been organised from 16<sup>th</sup> November, 2023 to 30<sup>th</sup> November, 2023 at Head Quarter as well as at regional offices under Swachhata Action Plan 2022-23. A consolidated report has also been sent to Ministry. More details are included in the chapter on Celebrations by IBM.

### 5.22.2. Lifestyle for the Environment (LiFE)

In accordance with DO letter received from MoEF&CC, a large variety of events/ activities were carried out at all IBM offices (HQ and field offices) under Mission Lifestyle for Awareness (LiFE) before the World Environment Day on 05.06.2023 as follows:

- a. Awareness campaigns, seminar/quiz on Mission LiFE, (HQ & all field offices)
- b. Organization of bicycle rallies, pond cleaning, e-waste/plastic waste collection, water conservation, minimization of food waste and similar other activities
- c. To include LiFE related Lecture for Training course, Workshops/ seminars.
- d. Display boards at canteen area/guest houses/ transit houses to minimize food wastages.
- e. Involve the new appointed candidates recruited through Rozgar Melas (Mission Recruitment) as LiFE Volunteers.
- f. To take a pledge on Mission LiFE on 05.06.2023
- g. Uploading activities on social media handles of IBM time to time.

### 5.22.3 IBM Joins the Nation in its National Campaign “मेरी माटी मेरा देश”

As a prelude to the Independence Day celebrations, IBM initiated activities to promote the gestures that reflect “Salutations to our Mother land” by taking part in the campaign “मेरी माटी मेरा देश” along with “हर घर तिरंगा”. A group of enthusiastic officers and staff at IBM’s Headquarters participated in a bike rally to spread the awareness and message of “Meri Matti Mera Desh”.

### 5.22.4 Swachhata Hi Seva campaign #SHS2023 at IBM

IBM, in tandem with the prime objective of "Reinvigorating Community Participation" as a step forward to trigger a Jan Andolan towards Swachh Bharat Mission, took up the cleanliness drive on an expansive scale across all its offices (Regional, Zonal and Labs) spread out at every region of the Country.

### 5.22.5 Ek Tareekh Ek Ghanta

On 1<sup>st</sup> September 2023, South Zone in association with Sandur Manganese & Iron Ore Limited mines, Central Zone in association with Gumgaon Manganese

Mine of M/s MOIL, Maharashtra, East Zone, IBM in association with M/s. Hindalco Limited and North Zone, IBM in association with M/s. Hindustan Zinc Limited successfully organized one hour cleanliness activity at various places with good participation from mine management, IBM officials, local villagers, gram panchayat members, local journalists etc

#### **5.22.6 Amrit Kalash Yatra**

IBM in response to the clarion call of Ministry of Culture in preparation of Amrut Vatika under the programs **Meri Maati MeraDeshand Amrit Kalash Yatra** had set itself target to collect Mitti from various Mine sites across the country. Ministry of Mines had committed 75 Kalash with 75 varieties of mines-mitti in commemoration of 75 years of Amrut Mahotsav. CG, IBM, had flagged off the event of Amrut Kalash from Hyderabad on 13.10.2023.

#### **5.22.7 Special Campaign 3.0**

Special Campaign 3.0 with a focus on activities of field offices has been observed in IBM HQ and all other field locations during the period 02.10.2023 to 31.10.2023. In this campaign, record management 8000 files, Disposal of Scrap/ Obsolete items, Development of four Innovative ideas, 30 Outdoor special campaign activities in schools and other public places, Cleanliness and beautification of office premises, Eco-friendly and tourist attract activities in selected 15 mine sites have been proposed as targets.

#### **5.22.8 Swachh Diwali Shubh Diwali Campaign**

Under the Swachhata Initiative, the Government had launched a fresh campaign on 'Swachh Diwali Shubh Diwali' from 6th –12th November 2023. The components of this campaign included— “Swachh Diwali Signature Campaign”, wherein Citizens were encouraged to sign for clean, green, SUP free Diwali. Their resolve could be demonstrated by joining the Signature Campaign on MyGov portal and “Swachh Diwali Video Reels” wherein Citizens would be encouraged to showcase unique ways of their Swachh Diwali celebrations by making short video reels (30-60 seconds) and sharing the same on social media platforms. IBM had set the ball rolling on the unique Initiative. Hearty participation of all officers and staff of IBM on this special campaign was encouraged.

## 6.0 IBM Budget 2023-24

6.1 During the Annual Plan 2023-24, Ministry had allocated `122.48 crores including ` 101.51 crores for Establishment and Rs. 20.97 crores for IBM Activities, which is further reduced to Rs.113.84 crores at RE stage including Rs.95.51 crores for Establishment and Rs. 18.33 crores for IBM Activities.

(Rupees in crore)

Head	B. E.	R.E	Expenditure (Up to March 2024)
Establishment	101.51	95.51	92.31
IBM Activities	20.97	18.33	15.37
<b>Total</b>	<b>122.48</b>	<b>113.84</b>	<b>107.68</b>

## 6.2 SCHEME-WISE FINANCIAL PERFORMANCE OF IBM DURING 2023-24

(Rs. In Lakhs)

Sl. No.	Name of the Schemes	2023-24		
		BE	RE	Actual Expenditure (upto Mar., 2024)
<b>1</b>	<b>2</b>			
1	<b>Establishment</b>	<b>10151.00</b>	<b>9551</b>	<b>9231</b>
2	<b>Scheme No. 1: Inspection</b> of Mines for Scientific & Systematic Mining, Mineral Conservation & Mines Environment.	119	115	86.14
3	<b>Scheme No. 2 :</b> Mineral beneficiation Studies-Utilisation of Low grade & Sub-grade ores & analysis of Environmental samples	34	34	21.87
4	<b>Scheme No. 3 :</b> Technological Upgradation & Modernisation.	39	39	34.59
5	<b>Scheme No. 4 :</b> Mines & Minerals through various Publications	25	25	24.10
6	<b>Scheme No. 5 :</b> Computerised Online Register of Mining Tenement System	900.0	830	790
7	<b>Information Technology</b>	19	19	18.31
8	<b>Swachhta Action Plan</b>	20	20	19.81



9	Training	10	10	10
10	Tribal Area Sub-Plan	90	0.00	0.00
11	Special Component Plan for Scheduled Castes	174	0.00	0.00
12	Revenue (NER)	169.00	169	145
13	Works Outlay (Major Works)	50	50	48.09
14	Motor Vehicles	81	81	80.33
15	Machinery & Equipments	330	330	251.44
16	Other Capital Expr. (NER)	41	41	7.03
	<b>TOTAL :</b>	<b>12248</b>	<b>11384</b>	<b>10768</b>

### 6.3 Audit paras:

**58** Audit paras raised by Internal Audit **were settled during 2023-24 and 02** Audit paras raised by Internal Audit were pending as on 31.03.2024. Compliance/reply is being submitted by the concerned offices for settlement of the same.

### 6.4 CAG Audit Para

As on 31 March 2024, 'Nil' CAG audit paras are pending as per records of this office.

## 7.0 Human Resources in IBM

The Bureau has a total sanctioned strength of 1477 consisting of various disciplines as mining engineers, geologists, ore dressing, chemical, metallurgical engineers, mineral economists, statisticians, administrative officers and supporting staff.

7.1 Ministry vide orders as recorded below accorded sanctions for entrusting additional charge of top most level posts in IBM:

### 7.1.1 Additional charge of CG:

Ministry of Mines vide letter No.26I3I2020-M.III dated.16.03. 2021 conveyed the ex-post facto approval accorded by the Appointment Committee of the Cabinet (ACC) towards the entrustment of additional charge of the post of Controller General, Indian Bureau of Mines, (IBM) to Shri Sanjay Lohiya, IAS Joint Secretary Ministry of Mines for a period of nine months w.e.f.15.11.2020, or till appointment of a regular incumbent to the post, or until further order, whichever is the earliest.

Ministry of Mines vide letter No.26I3I2020-M.III dated.28.08.2021 conveyed the approval of the Appointment Committee of the Cabinet (ACC) for extension of the additional charge of the post of the Controller General, Indian Bureau of Mines to Shri Sanjay Lohiya, IAS Joint Secretary Ministry of Mines w.e.f 15.08.2021 or till appointment of a regular incumbent to the post, or until further order, whichever is the earliest.

Ministry of Mines vide letter No.26I3I2020-M.III dated.28.06.2022 conveyed the approval of the Appointment Committee of the Cabinet (ACC) for extension of the additional charge of the post of the Controller General, Indian Bureau of Mines to Shri Sanjay Lohiya, IAS Joint Secretary Ministry of Mines for the period of six months w.e.f 15.05.2022 or till appointment of a regular incumbent to the post, or until further order, whichever is the earliest.

Ministry of Mines vide letter No.26I3I2020-M.III dated.16.01.2023 conveyed the approval of the Appointment Committee of the Cabinet (ACC) for extension of the additional charge of the post of the Controller General, Indian Bureau of Mines to Shri Sanjay Lohiya, IAS Joint Secretary Ministry of Mines for the period of nine months w.e.f 15.11.2022 or till appointment of a regular incumbent to the post, or until further order, whichever is the earliest.

Ministry of Mines vide letter No.26I3I2020-M.III dated.05.02.2024 conveyed the approval of the Appointment Committee of the Cabinet (ACC) for ex-post

facto extension of the additional charge of the post of the Controller General, Indian Bureau of Mines to Shri Sanjay Lohiya, IAS Joint Secretary Ministry of Mines for a further period of 01 year w.e.f 15.08.2023 or till appointment of a regular incumbent to the post, or until further order, whichever is the earliest.

### **7.1.2 Additional charge of CCOM (MDR) Post**

Ministry of Mines vide letter No.26/7/2019 M.III dated 16.6.2021 conveyed the approval of the Appointment Committee of the Cabinet (ACC) for extension of the additional charge of the post of the Chief Controller of Mines (MDR), Indian Bureau of Mines to Shri P.N. Sharma, COM, IBM for a further period of one year w.e.f 01.11.2020, or till the appointment of a regular incumbent to the post, or until further order, whichever is the earliest.

Ministry of Mines vide letter No.26/7/2019 M.III dated 28.6.2022 conveyed the approval of ACC for extension of the additional charge of the post of Chief Controller of Mines (MDR), Indian Bureau of Mines (IBM) entrusted to Shri P.N. Sharma, Controller of Mines, in his substantive scale of pay i.e. Level 14 for a further period of 01 year w.e.f. 01.05.2022, or till the appointment of a regular incumbent to the post, or until further orders, whichever is the earliest.

Ministry of Mines vide letter No.26/7/2019 M.III dated --.04.2023 conveyed the approval for extension of the additional charge of the post of Chief Controller of Mines (MDR), Indian Bureau of Mines (IBM) entrusted to Shri P.N. Sharma, Controller of Mines, w.e.f. 01.05.2023 till the further orders.

### **7.1.3 Additional charge of CCOM (ME&S) Post**

Ministry vide letter No.26/2/2018-M.III dated 07.04.2022 conveyed for the approval of ACC for extension of the additional charge for the post of the Chief Controller of Mines (MES), Indian Bureau of Mines to Shri Pankaj Kulshreshtha, COM, IBM for a further period of 1 year w.e.f 23.3.2022 or till the appointment of a regular incumbent to the post, or until further order, whichever is the earliest.

Ministry vide letter No.26/2/2018-M.III dated 12.04.2023 conveyed for extension of additional charge of the post of the Chief Controller of Mines, Indian Bureau of Mines to Shri Pankaj Kulshreshtha, COM, IBM w.e.f. 23.03.2023 till the further order.

Ministry vide letter No.26/2/2018-M.III dated 12.04.2023 conveyed for extension of additional charge of the post of the Chief Controller of Mines, Indian Bureau of Mines to Shri Pankaj Kulshrestha, COM, in his substantive scale of pay i.e. Level 14 for a further period of 01 year w.e.f. 23.03.2023, or till the appointment of a regular incumbent to the post, or until further orders, whichever is the earliest.

#### **7.1.4 Additional charge of Director (MPD) Post**

Ministry vide letter No.26/4/2020-M.III 19.4.2021 conveyed approval of the Appointment Committee of the Cabinet (ACC) to assign the additional charge for the post of the Director (Ore Dressing), Indian Bureau of Mines to Dr. (Smt.) S.M.Lal, CODO, IBM for a period of nine months w.e.f. 1.12.2020 or till appointment of a regular incumbent to the post, or until further order, whichever is the earliest.

Ministry vide letter No.26/4/2020-M.III dated 17.08.2021 conveyed for extension of additional charge of the post of the Director (OD), IBM to Dr. (Smt.) S.M.Lal, CODO, IBM w.e.f 01.09.2021 till the further order.

Ministry vide letter No.26/4/2020-M.III dated 08.02.2022 conveyed Ex-post facto approval of ACC for extension of additional charge of the post of the Director (OD), IBM to Dr. (Smt.) S.M.Lal, CODO, IBM for a period of 01.09.2021 to 30.09.2021.

Ministry vide letter No.26/4/2020-M.III dated 08.02.2022 conveyed approval of ACC for the assignment of additional charge of the post of the Director (OD), IBM to Dr.Dilip Ranjan Kanungo, Suptdg. Officer (Ore Dressing), IBM for a period of one year with immediate effect or till appointment of a regular incumbent to the post, or until further order, whichever is the earliest.

Ministry vide letter No.26/4/2020-M.III dated 13.01.2023 conveyed approval for extension of additional charge of the post of the Director (OD) to Dr.Dillip Ranjan Kanungo, Superintending Officer (OD), IBM w.e.f.04.02.2023 till the further order.

Ministry vide letter No.26/4/2020-M.III dated 05.02.2024 conveyed approval for extension of additional charge of the post of the Director (OD) to Dr.DillipRanjan Kanungo, Chief Ore Dressing Officer (OD), IBM for a further period of 01 year w.e.f.04.11.2023 or till the post is filled on regular basis, or until further order, whichever is the earliest.

Sanctioned and filled up strength as on 31.3.2024 is given in the below table.

Employment of Personnel in IBM as on 31.03. 2024

SI No.	GROUP	SANCTIONED	FILLED	VACANT	SC	ST	OBC	EWS	WOMEN	PH
1.	GROUP 'A'	459	147	312	18	05	31	00	06	00
2.	GROUP 'B'	250	98	152	13	05	15		13	03
3.	GROUP 'B' (Non-Gaz)	252	124	128	12	06	30	04	25	06
4.	GROUP 'C'	516	289	227	55	20	90	06	34	10
TOTAL		1477	658	819	98	36	166	10	78	19

### 7.3 Redressal of Public Grievances

At the beginning of the year 2023-24, two grievances were pending. During the year 2023-24, fifty-six grievances were received, and 54 grievances were disposed including the pending grievances. Four Grievances were under process for disposal at the end of the year 2023-24. Online facility for registration of Public Grievances has already been provided by linking IBM Web Site with the Grievance CPGRAMS Portal of DARPG.

### 7.4 Vigilance cases

During the year 21 complaints were received, of which 19 complaints were disposed off and two complaints were under scrutiny as on 31.03.2024.

CVO inspected Goa Regional Office, IBM. CVO scrutinized under CTE Type examination 01 MPLN / RMPLN. CVO inspected 01 Pension related file of an IBM employee under Preventive Vigilance Measures in IBM during the period.

#### Preventive activities carried out during the period:

- During the period Agreed List /ODI list were prepared for the year 2023.
- In total 64 Annual Immovable Property returns for the year ending 31.12.2023 in respect of employees of IBM were scrutinized by this office, no adverse observations were made.
- 02 Training Programs for New Entrants as well as Mid-Career Training for the officers and Staff of IBM were organized.
- In 01 case system improvement were suggested by this office.
- Various rules guidelines in pertinent matters as issued from time to time by DOPT, CVC, etc. have been circulated through Head of Office, IBM to all Zonal & Regional Offices of IBM.



## The Vigilance Awareness Week 2023

This year as a precursor to Vigilance Awareness Week – 2023, Central Vigilance Commission decided to focus on six different preventive vigilance measures in a move towards inculcating the true spirit of participative vigilance. The six different parameters such as PIDPI Awareness, Capacity Building, Identification and Implementation of Systemic Improvements Record Management, Leveraging of IT for Complaint Disposal, Updation of Circulars / Guidelines / Manuals and Disposal of complaints were introduced as a preventive measure tool towards combating corruption within the organization, which were well received by IBM.

During the Vigilance Awareness Week, various in-house activities / programs such as Essay, Debate, Quiz, Poster, Slogan, Speech competitions were organized in all the Zonal, Regional and Headquarter of IBM for employees and their family members and also outreach activities organized in schools for students to create awareness regarding common issues related to vigilance and create an atmosphere motivated towards weeding out corruption and unethical practices.

### 7.5 Gender Equality

Women employees constitute about 12 percent of filled up strength of IBM. Training is imparted to women employees in the field of technical as well as administrative matters. A Committee has been constituted in IBM to redress the complaints made by the victims of sexual harassment at work place in a time bound manner.

### 7.6 RTI Applications

Indian Bureau of Mines (IBM) has appointed Central Public Information Officers and Appellate Authorities. During the year 2023-24 (1<sup>st</sup> April 2023 to 31<sup>st</sup> March 2024), the Bureau received 460 applications under the RTI Act, which were timely responded. One Appeal was pending in the beginning of the year and 32 Appeals received against the decisions of the CPIOs of which 31 were disposed of by the concerned Appellate Authorities within the stipulated time frame and two were under processing. The status regarding receipt and disposal of RTI applications, First Appeals and Second Appeals w.r.t. IBM is given at **Table 7.6.1**, **Table 7.6.2** and **Table 7.6.3** respectively.

**Table 7.6.1 RTI Application/Request Status (w. e. f. 1<sup>st</sup>April, 2023 to 31<sup>st</sup>March, 2024)**

Organizational	No. of Cases					Pendency			
	Previous Pendency	No. of RTI Application/ Request during the period	Disposal	Information denied u/s 8(1), 9, 11, 24 & others of RTI Act	Balance	0-3 months	4-6 months	7-9 months	10-12 months
IBM	50	460	475	14	21	21	Nil	Nil	Nil

Source: Information received from designated CPIO/AA of IBM.

**Table 7.6.2**  
**RTI I<sup>st</sup> Appeal Request Status (w. e. f. 1<sup>st</sup>April, 2023 to 31<sup>st</sup>March, 2024)**

Organizational	No. of Cases					Pendency			
	Previous Pendency	No. of I <sup>st</sup> Appeal received during the period	Disposal	No. Appeal rejected/Inf. denied u/s	Balance	0-3 months	4-6 months	7-9 months	10-12 months
IBM	1	32	31	5	2	2	Nil	Nil	Nil

Source: Information received from designated CPIO/AA of IBM.

**Table 7.6.3**  
**CIC 2<sup>nd</sup> Appeal Status (w. e. f. 1<sup>st</sup>April, 2023 to 31<sup>st</sup>March, 2024)**

Organization	No. of Cases				
	Previous Pendency	No. of 2 <sup>nd</sup> Appeals filed in CIC	Decided		Balance
			In favour of Appellant	In favour of Organization	
IBM	Nil	1	Nil	1	Nil

Source: Information received from designated CPIO/FAA of IBM.

## 7.7 Reservation of Vacancies for persons with Disabilities

IBM is strictly following the various instructions of the Government issued from time to time regarding reservation of vacancies for PWD,s in respect of Group 'A' and 'B' Gazetted posts. As on 31<sup>st</sup>March 2024, 19physically handicapped persons were under employment in IBM.

## 7.8 Welfare activities for SC/ST, women, Minorities and PWD,s:

Women employees constitute about 12 per cent. Training is imparted to women employees in the field of technical as well as administrative matters.

An Internal Complaints Committee constituted under the provisions of Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 is active in Indian Bureau of Mines to redress the complaints, if any, of the victims of sexual harassment at work place in a time bound manner with proactive approach strictly within the stipulations of the Act.

## **7.9 Rozgar Mela –IBM Issues Offer Letters**

"The initiative of Govt. of India under Mission Recruitment, the Rozgar Mela was organized by the DoPT every month since Oct. 2022 in every state, wherein the new offers of appointments were issued by the various departments of Central Govt. to the new recruits selected through UPSC, SSC and other agencies. Indian Bureau of Mines which is the sub-ordinate office under Ministry of Mines has also issued offer of appointment to the candidates for various posts during the year 2023-24. The total offer issued during the year 2023-24 was 141, out of which 81 candidates were joined in IBM to the various posts."

## **7.10 IBM Holds Pension Adalat**

IBM, in compliance with the directives of the Ministry of Mines, conducted the All India Pension Adalat at its Headquarters on 17.05.2023. The proceedings of the Adalat held both in physical & through video conferencing mode were conducted by a team of IBM Officers chaired by Dr Y.G. Kale, Controller of Mines (TMP). The team from IBM also included Shri Parag Tadlimbekar, SgMG & Head of Office; Shri Ashutosh Mishra, CAO & Nodal Officer; Shri Arle Hari Kumar, PAO; and Shri P.M. Sundareswar, AO (Estt). Besides, DDOs of NR Office, MP Division, TMP Division and Administrative Officer (Accounts) participated in the Adalat programme.

IBM with a view of hosting the Pension Adalat had published an advertisement in all leading dailies in Marathi, Hindi and English. In response to the advertisement, ten grievance petitions were received by the Head of Office, IBM. Grievance petitioners also joined the Adalat forum through Video Conferencing at the weblink provided to them. The petitioners did express satisfaction on the efforts taken by IBM to resolve their grievances.



Resolving grievance petitions of pensioners at IBM HQ

## 8.0 Indian Bureau of Mines: Celebration of events

### 8.1 IBM Celebrates 132nd Birth Anniversary of Dr Babasaheb Ambedkar

In tandem with the practice of observing with deference the Birth Anniversary of Dr Ambedkar every year, this year, IBM, under the aegis of Dr Babasaheb Ambedkar Smruti Samiti celebrated 132nd Birth Anniversary of Dr Ambedkar with immense fervour and gaiety. Befitting the occasion, a grand function was organised by the Samiti on 19 April 2023 at IBM Headquarters.

Shri Kishore Gajbhiye, IAS, Former Secretary to the Government of Maharashtra and Dr Deesha Khaire, Associate Professor, Maharashtra National Law University, graced the occasion as Chief Guest and Guest of Honour respectively.

The programme of the day, held under the Presidentship of Shri Pankaj Kulshrestha, Chief Controller of Mines, commenced with lighting of lamp, garlanding the portrait of Dr Ambedkar and Singing of Bhim Geet.

In her speech to the august gathering, Dr Deesha Khaire eloquently narrated aspects of the Indian Constitution and the role of judiciary and Dr Babasaheb's contributions in the construct of the idea of Indian political system and the vibrancy of democracy. Quoting anecdotes, Dr Khaire asseverated that Dr Ambedkar's acumen in respect of making India and her subjects free of the past baggage and liberating people of pre-existing unethical conceptions and fostering the idea of human rights and citizenship was pivotal in the overall emancipation of the country.

Shri Kishore Gajbhiye, in his address, drew the difference between elevated souls, he said some become Mahatma while some are Statesman. Shri Gajbhiye drove home firmly the attributes and nuanced contributions of Dr Ambedkar in multi-dimensional fields that over the passage of time led to sustained growth and maturing of India. He said Dr Ambedkar was the true torchbearer and leader amongst Statesmen who shaped the India that we know of today.

There were customary felicitations of the Guests by the President of the programme, Shri Pankaj Kulshrestha, who in his address acknowledged and thanked the Guest for delivering an all inspiring exposition on Dr Ambedkar. The programme was splendidly conducted by Smt Pradnya Deo, Asst Editor.



Earlier, Shri A.H. Ramteke, President of Dr Babasaheb Ambedkar Smruti Samiti and Shri N.P. Mahatme, Secretary of the Samiti also spoke on the occasion. The programme drew to a close after the presentation of vote of thanks by Shri Anurag Mishra, Asst Editor.



Dignitaries on the Dias and IBM Family

## World Environment Day

In commemoration of the World Environment Day on 5th June, IBM at its Headquarters organized a Pledge Administering Ceremony.

### 8.2 IBM Observes International Yoga Day, 21 June, 2023

In commemoration of International Yoga Day, IBM at its Headquarters today, i.e., 21 June 2023, organized a drive that witnessed participation of yoga enthusiasts among its officials in an early morning congregation at the Bureau's premises. The assembled participants under the instructions of yoga expert flaunted their capacity in performance of various breathing exercises and asanas. Conscious of the importance of yoga in maintenance of good health, well-being and leading a sustainable & active lifestyle, all the participants made the best out of the lively early morning yoga session.

भारतीय खान ब्यूरो के अयस्क प्रसाधन प्रभाग, एमआईडीसी, हिंगणा, स्थित सम्मेलन कक्ष में प्रातः 10.30 बजे अंतर्राष्ट्रीय योग दिवस, शुभारंभ किया गया। खनिज प्रसंस्करण प्रभाग के अधिकांश अधिकारियों एवं कर्मचारियों ने योग अभ्यास का पूरा-पूरा लाभ उठाया। इसअवसर पर श्री जनार्दन स्वामी, योगाभ्यासी मंडल, रामनगर, नागपुर से प्रशिक्षित योगगुरु (टीमलीडर) श्री सुधाकर जी गडकरी के मार्गदर्शन में योग प्रशिक्षकों द्वारा योग पर अभ्यास कराया गया। साथ ही योग का महत्व एवं जीवनशैली में इसकी महत्वता के बारे में श्री गडकरी द्वारा विस्तृत जानकारी दी गई।

IBM's Jabalpur Office in commemoration of International Yoga Day on 21 June 2023 celebrated the occasion by organizing a session where all officers and staff took part in performing yoga asanas with the realization that "Yoga is not a workout, it's a work done from within. It guides us about being in harmony with oneself and with the nature."



### 8.3 Independence Day Celebrations at IBM

India's 77th Independence Day was celebrated with gaiety and aplomb at IBM on 15 August 2023. Amidst a huge assembly of guests, senior officers and staff members, the celebration at IBM's Headquarters took off with the hoisting of the Tricolour and singing of the National Anthem. Shri P.N. Sharma, CCOM (MDR) took the podium to hoist the National Flag and in his address, narrated IBM's endearing journey from its initial rudimentary days to its current exalted status. Conveying his best wishes to all the assembled colleagues— former and present, Shri Sharma recounted a few past experiences that had left indelible impressions in the soul of IBM and that which remain as lofty achievements



that IBM surpassed in its illustrious journey. During the course of the celebrations the entire assembled guests and colleagues were administered a pledge in salutations to our Mother Land in line with the ongoing campaign titled “मेरी माटी मेरा देश”. Earlier, on the eve of the celebrations the entire IBM building was decked up with attractive illumination and decorations.

Independence Day was celebrated at all Zonal/Regional Offices of IBM across the country. At Jabalpur Regional Office, Shri S.K. Adhikari, Chief Mining Geologist, who participated in the celebration as Chief Guest hoisted the National Flag and as postlude to the Independence Day Celebrations, inaugurated an Archive for Geological Samples.



Independence Day Celebration at IBM (15.08.2023)

#### 8.4 IBM Joins the Nation in its National Campaign “मेरी माटी मेरा देश”

As a prelude to the Independence Day celebrations, IBM initiated activities to promote the gestures that reflect “Salutations to our Mother land” by taking part in the campaign “मेरी माटी मेरा देश” along with “हर घर तिरंगा”. A group of enthusiastic officers and staff at IBM’s Headquarters participated in a bike rally to spread the awareness and message of “Meri Matti Mera Desh”. IBM in

celebration of #MeriMaatiMeraDesh and #AmritKalashYatra organized a grand display of Amrit Kalash containing soil and sapling from prominent mines in India. The Secretary (Mines), Shri V.L. Kantha Rao, inaugurated the Amrit Kalash program on 20.10.2023 at IBM Headquarters.

Amrit Kalash with maati& saplings that reached IBM Headquarters from prominent mines under Central Zone jurisdiction were flagged off by Dr Y.G. Kale, COM (CZ). The truck with all Kalash was headed for New Delhi where the Kalash were later on placed in the Amrit Kalash Vatika.







**National Campaign “मेरीमाटीमेरादेश” at IBM**

### **8.5 Swachhata Hi Seva campaign #SHS2023 at IBM**

IBM, in tandem with the prime objective of "Reinvigorating Community Participation" as a step forward to trigger a Jan Andolan towards Swachh Bharat Mission, took up the cleanliness drive on an expansive scale across all its offices (Regional, Zonal and Labs) spread out at every region of the Country.

Smt. Farida M. Naik, Joint Secretary, Ministry of Mines, Government of India, on 19.9.2023 and on 25.9.2023 had a review meeting with all the CPSEs and subordinate offices regarding "Ek Tareekh Ek Ghanta" event under SHS campaign to be conducted on 1st Oct, 2023.

Shri. VL Kantha Rao, Secretary, Ministry of Mines, Government of India chaired a review meeting of #SHS2023 on 20.9.2023 with senior officials of ministry, CPSEs and Subordinate offices and urged to take proactive steps for the #SwachhataHiSeva Campaign and set higher targets for special campaign 3.0 compared to the previous campaign.

IBM has put out a banner in its effort to promote Swachhata that which has been the prime motto of the "Swachhata Hi Seva" campaign. Supporting the efforts of the Government in achieving “Garbage Free India”, IBM had lined up a series of activities to strengthen the campaign such as cleanliness drive in its office premises, Shramdaan activity at the premises of IBM residential colonies, roof-top cleaning, Plastic waste collection and plantation of saplings, spreading the awareness of ban on Single Use plastic and to encourage use of biodegradable items like paper bags, cotton bags, “Hara Geela Sukha Neela” program under the Swachhata campaign to segregate wet and dry waste etc.

To observe Ek Tareekh Ek Ghanta Shramdaan activity, South Zone in association with Sandur Manganese & Iron Ore Limited mines, Central Zone in association with Gumgaon Manganese Mine of M/s MOIL, Maharashtra, East



Zone, IBM in association with M/s. Hindalco Limited and North Zone, IBM in association with M/s. Hindustan Zinc Limited successfully organized one hour cleanliness activity at various places with good participation from mine management, IBM officials, local villagers, gram panchayat members, local journalists etc

## 8.6 Vigilance Awareness Week

As per directions of Central Vigilance Commission, Vigilance Awareness Week is being observed at IBM from 30<sup>th</sup> October, 2023 to 3<sup>rd</sup> November, 2023. With a view to create a momentum against corruption and to eradicate it totally from the system, at IBM Headquarters and at all field offices of IBM, an Inauguration program towards the commencement of the Vigilance Awareness Week was held on 30.10.2023. At IBM HQ at Nagpur, Shri P.N. Sharma, CCOM (I/c) administered the pledge in Hindi while Shri Pankaj Kulshrestha, CCOM—MES (I/c) administered the pledge in English. On 31<sup>st</sup> October, 2023, virtual link of the Seminar by CVC was shared to Divisional Heads, Essay competition on the theme of Vigilance Week 2023 i.e. "Say no to corruption, commit to the Nation" and PIDPI seminar (Public Interest Disclosure and Protection of Informers) was organized wherein Shri Ashutosh Mishra, Chief Administrative Officer, IBM explained the subject in detail. Slogan and Quiz Competitions are also being organized during the week.





Vigilance Awareness Week administering the pledge

### 8.7 National Unity Week

As per Ministry's email dated 25 October, 2023 along with copies of DO letter No. I-19034/01/2023-NI-II dated 20 October, 2023 of Shri Amit Shah, Hon'ble Home Minister, Government of India, New Delhi and DO letter No. 281/1/7/2017-TS dated 23 October, 2023 of Shri Rajiv Guba, Cabinet Secretary, Government of India, New Delhi, National Unity Week was celebrated from 25th October to 31st October 2023 with Administering pledge of Rashtriya Ekta Diwas (National Unity Day) on 31<sup>st</sup> October, 2023 at IBM HQ and at all field offices of IBM and to spread the message of national unity and the spirit of Rastriya Ekta, Run for Unity activity was organized on 27.10.2023 at IBM HQ and at IBM RO, Jabalpur & IBM RO Goa wherein IBM officials participated enthusiastically.



Run for Unity activity at IBM

### 8.8 Observance of Samvidhan Divas (Constitution Day)

IBM on Constitution Day joined the Nation in observing that day with spirit of patriotism, pride, and enthusiasm. A Constitution is the backbone of the

country and the people of India celebrate this significant day to commemorate the adoption of the Indian Constitution in 1949. As a committed force, IBM officers/officials read the Preamble to the Constitution and obtained the certificate.

Further, Dr. Babasaheb Ambedkar Smruti Samiti, IBM, Nagpur also celebrated 74th Constitution Day at IBM (H.Q) on 29th Nov 2023 where in Shri P.N. Sharma, CCOM (I/c) (MDR) presided over the function and Hon'ble Justice Mr. Z.A. Haq, Bombay High Court (Retired), Nagpur was the Chief Guest on this occasion.

### **8.9 Communal Harmony Campaign Week**

IBM observed the Communal Harmony Campaign Week from 19<sup>th</sup> to 25<sup>th</sup> November, 2023 by organizing events/campaign and conducted fund raising event on Flag Day i.e. 24<sup>th</sup> Nov. 2023 for collection of maximum contribution on voluntary basis. The funds so collected were donated to National foundation for Communal Harmony (NFCH).

### **8.10 Sensitization Programme against Sexual Harassment of Women at Workplace :**

#### **Prevention of Sexual Harassment at Work Place Week 2023**

Internal Complaints Committee (ICC), IBM organized various programmes to observe Sexual Harassment at Workplace Prevention Week 2023 as follows:

1. Essay Competition was held on 11.12.2023 on the Topic, "Women's Rights are Human Rights".
2. Poster Competition was held on 12.12.2023 on the Topic "Invest to prevent violence against Women and Girls".
3. Slogan Competition was held on 12.12.2023 on the Topic "Every human has to play role to end violence".
4. Awareness programme on Sexual Harassment of women at work place was held on 13.12.2023 wherein Adv. Smita Sarode Singhalkar explained the contents of the Prevention of Sexual Harassment (PoSH) Act i.e. the law in India designed to protect women and all employees from sexual harassment at the workplace, (Officially known as the "Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act, 2013", with various examples.



## 8.11 IBM Celebrates 75th Republic Day

Amidst a grand assembly of senior officers, distinguished guests, fellow colleagues and retired officials, Shri Pankaj Kulshrestha, CCOM (MES), unfurled the National Tricolour at the Headquarters of IBM. The National Anthem was sung evoking the national pride and honour. In his address, Shri Kulshrestha highlighted the strides of progress achieved by our country in economic and scientific fronts and briefed on the scale of achievements that IBM has achieved weathering all challenges that sometimes were overwhelming. Greeting the assembled audience, Shri Kulshrestha reiterated that the onus rests with us citizen to strive for a more inclusive and prosperous India. IBM Headquarters on the eve of the Republic Day celebrations looked ecstatic with illumination & decorations befitting the glory of the occasion.





Republic Day at IBM HQ(26.01.2024)

### 8.12 गणतंत्र दिवस-अयस्क प्रसाधन प्रभाग

दिनांक 26 जनवरी, 2024 को आधुनिक खनिज प्रसंस्करण प्रयोगशाला एवं प्रायोगिक संयंत्र के प्रांगण में प्रातः 8.30 बजे डॉ. दिलीप रंजन कानुनगो, निदेशक (अयस्क प्रसाधन) के शुभहस्ते ध्वज फहराकर कार्यक्रम का शुभारंभ किया गया ।

अपने अध्यक्षीय संभाषण में डॉ. कानुनगो निदेशक (अ.प.) द्वारा कार्यालय की विभिन्न गतिविधियों पर अधिकारियों एवं कर्मचारियों को अवगत कराया गया साथ ही सभी को मिलजुल कर सहयोग करते हुए अपने कार्य के प्रति इमानदारी एवं पूरी निष्ठा से कार्य करने हेतु प्रेरित किया गया । अत्याधुनिक उपकरणों की समुचित देखरेख व आंतरिक व्यवस्था को और अधिक मजबूत किए जाने बाबत सभी कार्यरत संयंत्र के कर्मचारियों एवं अधिकारियों को उचित सलाह दी गई । साथ ही आधुनिक खनिज प्रसंस्करण प्रयोगशाला एवं प्रायोगिक संयंत्र में भविष्य में नए पदों के शीघ्र ही भरे जाने का आश्वासन भी दिया गया ।

अयस्क प्रसाधन अधिकारी एवं कार्यालय अध्यक्ष श्रीमान एल.बी.टोल, द्वारा अधिकारियों एवं कर्मचारियों को समय पर कार्यालय में उपस्थित रहकर अपनी जिम्मेदारी को पूरी लगन से निभाए जाने पर बल दिया गया । साथ ही एकता और आपसी सहयोग द्वारा नित्य नए आयाम पर उपलब्धियों को हासिल किए जाने हेतु प्रेरित किया गया ।

इस शुभ अवसर पर आधुनिक खनिज प्रसंस्करण प्रयोगशाला एवं प्रायोगिक संयंत्र के सभी अधिकारियों एवं कर्मचारियों ने अपनी उपस्थितिसे इस कार्यक्रम को सफल बनाने में भरसक सहयोग दिया । जिसके लिए डॉ. कानुनगो निदेशक (अ.प.) द्वारा सभी का हृदय से आभार व्यक्त किया गया ।





गणतंत्र दिवस – अयस्क प्रसाधन प्रभाग

### 8.13 30th All India IBM Sports Meet

IBM organized 30th All India IBM Sports Meet, three-day event, from 18th to 20th January 2024 at Bhubaneshwar, hosted by Bhubaneshwar Regional Office. About 160 participants from various IBM offices across the country showcased talent and camaraderie. The sports meet featured both indoor and outdoor sporting events, including Track & Field, Volleyball, Badminton, Table Tennis, Carrom and Chess.

The Inaugural ceremony was marked by esteemed presence of Mr. Pramod Bhagat, the illustrious Para-Badminton champion and Padma Shri awardee. The subsequent days witnessed enthusiastic participation of the employees from all age groups in all the events.

Dr.Y.G.Kale, Controller of Mines (CZ), the Chief Guest for the prize distribution ceremony, commended the participants for their efforts and awarded prizes to the achievers.

Incidentally Shri Dharmendra Pradhan, Honble Union Minister of Education, Skill Development and Entrepreneurship spared a few precious moments from his hectic schedule to attend the event, adding prestige and honour to the ceremony.

Shri Anil Khapre, Secretary General of IBM Recreation Club and co-ordinator, 30th All India IBM Sports Meet was felicitated with lifetime achievement award for his outstanding contribution towards promoting sports culture in IBM. The 3-day IBM Sports Meet that saw thrilling races to team competitions, embodied the true essence of athletic excellence, drew to a close on a memorable note.



Glimpses of IBM's 30<sup>th</sup> All India Sports Meet (18-20<sup>th</sup> Jan.2024)

## 8.14 CELEBRATION OF IBM's 77th FOUNDATION DAY

Indian Bureau of Mines in commemoration of its 77<sup>rd</sup> Foundation Day on 1<sup>st</sup> March 2024 observed the Day as Khanij Diwas. To mark the occasion a bunch of events was conducted and a grand function was organised at its Headquarters in Nagpur as well as all zonal/regional offices and ore dressing laboratories on 1<sup>st</sup> March 2024.

Dr N.G. Patil, Director, ICAR—National Bureau of Soil Survey and Land Use Planning, Nagpur was the Chief Guest at IBM HQ celebration. Dr Patil

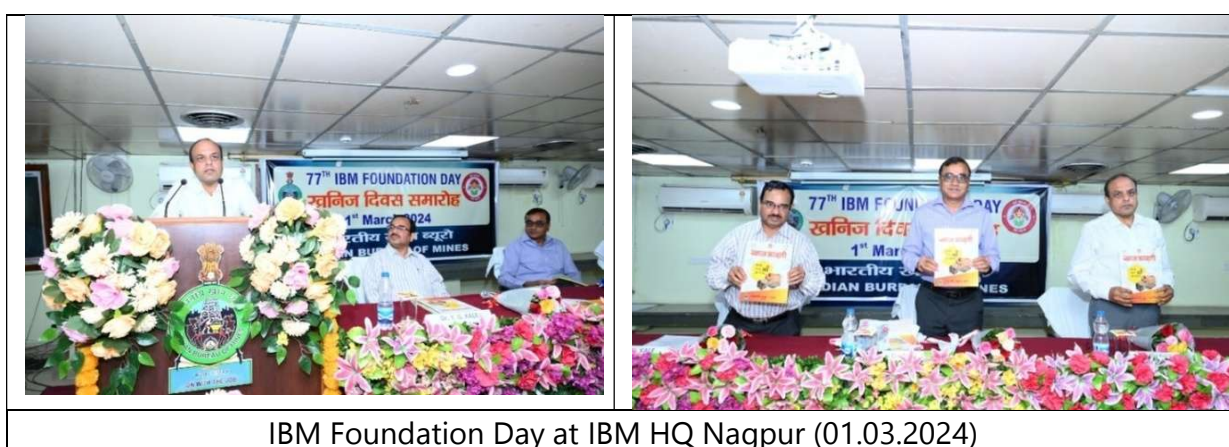


complimented IBM for serving the Nation's cause by its efficient management of the country's mineral wealth. Extending best wishes on IBM's Foundation Day, Dr Patil said that Intellectual pursuit is a serious affair and all Technical Organisations must gear up to face the challenges that are constantly faced.

Delivering the Presidential address, Shri Pankaj Kulshrestha, Chief Controller of Mines I/c MES, spoke on the forays made by IBM in various technological fronts in its endeavour to efficiently govern the mining & mineral development activities in the country.

Presenting the Introductory address, Dr Y.G. Kale, Controller of Mines (CZ), IBM, laid emphasis on the trajectory of growth that IBM over the years have achieved and foresaw greater expansion & diversification of IBM in the future to come. IBM's Hindi Magazine "Khan Bharati" was released on this occasion.

IBM family members, distinguished guests, and retired officials enthusiastically participated in this celebration. IBM Headquarters on the eve of the Khanij Diwas celebration looked ecstatic with illumination & decorations befitting the glory of the occasion.



IBM Foundation Day at IBM HQ Nagpur (01.03.2024)

### IBM's Foundation Day Jabalpur Regional Office

दिनांक 01.03.2024 को क्षेत्रीय कार्यालय जबलपुर में भारतीय खान ब्यूरो के 77वें जन्मदिन को खनिज दिवस के रूप में धूमधाम से मनाया गया। इस दिन 16 सेवानिवृत्त कर्मचारियों को तिलक शॉल श्रीफल से स्वागत किया। शेल्वी हॉस्पिटल के सौजन्य से -साफा -गुड-लगभग पचास कर्मियों की चिकित्सीय जाँच की गई। कार्यक्रम में श्री अशोक कुमार, निदेशक डीजीएमएस -, जबलपुर ने मुख्य अतिथि और डॉ आरएस शर्मा शेल्व-हृदयरोग विशेषज्ञ -बी अस्पताल ने विशिष्ट अतिथि के रूप में शिरकत कर शोभा बढ़ाई। कार्यक्रम में भारतीय खान ब्यूरो की 75वर्षीय स्वर्णिम यात्रा का वीडियो चलाया तथा 1948 से 2024 तक आईबीएम के मुखियाओं की गैलरी का वीडियो भी दिखाया गया। डॉ शर्मा ने कोविड उपरांत स्वास्थ्य का

ख्याल और वृद्धावस्था में बरतने वाली सावधानियाँ विषय पर भाषण दिया। मुख्य अतिथि श्री अशोक कुमार साहब ने भारतीय खनन क्षेत्र में आईबीएम और डीजीएमएस के साँझा योगदान और आपसी सामंजस्य पर प्रकाश डाला। भोजन के उपरांत सभी को विदाई दी।



IBM Foundation Day at Jabalpur Regional Office (01.03.2024)

### 8.15 Celebration of International Women's Day at IBM HQ

IBM, on 18 March 2024 organized a function at its Headquarters in Nagpur as part of the observance of International Women's Day. Dr (Mrs) AtyaKapley, Chief Scientist, Head Environment Biotechnology and Genomics Division, CSIR, NEERI, Nagpur graced the function as Chief Guest and Shri P.N Sharma, CCOM—MDR (I/c) was the President of the function. In her address, Dr (Mrs) AtyaKapley, Chief Scientist, emphasized the need of women education and equal opportunities in professional career. Shri P.N. Sharma, praised the Women of IBM and congratulated the Organising Committee headed by Dr Jyothi Srivastava, Senior Chemist for organizing the function in a grand manner.

International Women's Day is observed, celebrated and commemorated with fervor and pride every year on March 8. This Day is not just a day to celebrate women's achievement but also a call-to-action for gender equality and rid the world of bias and discrimination. IBM, this year, on 18 March 2024 organised a function at its Headquarters in Nagpur as part of the observance of International Women's Day. Dr (Mrs) AtyaKapley, Chief Scientist, Head Environment Biotechnology and Genomics Division, CSIR, NEERI, Nagpur graced the function as Chief Guest. Shri P.N Sharma, CCOM—MDR (I/c) under whose Presidentship the function was held was accompanied by Dr Jyothi Srivastava, Senior Chemist & President of Women's Day Organising Committee, IBM, on the dais during the function.

In her address, Dr (Mrs) AtyaKapley, Chief Scientist, emphasised the need of women education and equal opportunities in professional career.

Shri P.N. Sharma, praised the Women of IBM and congratulated the Organising Committee for organizing the function in a grand manner. Earlier, the dignitaries on the dais lit the traditional lamp and garlanded the portrait of the most venerable Smt Savitribai Phule. The program of the day was compered by Ku Kruti Gupta and the vote of thanks was proposed by Ku Saumya Kesari.



## 8.16 Campaign on “Mission Lifestyle for Environment (LiFE)”

In line with the directives of the Government, Indian Bureau of Mines had earnestly commenced its campaign on “Mission Lifestyle for Environment (LiFE)” as a lead-up to the “World Environment Day” that falls on 5th of June 2023.

### 8.16.1 Awareness Programmes

The LiFE campaign at various Regional Offices of IBM did commence by way of organisation of Awareness programmes. Several Safe Environment topics were brought to fore and discussed. A lecture programme in this regard had been



hosted by IBM on 12 May 2023. Long drawn activities had been charted out as part of IBM's Observance of the month long campaign.

At Kolkata Zonal Office the topic under discussion revolved around "Importance of Conservation and Protection of Environment along with Necessity of Waste Management. The Jabalpur Regional Office of IBM organised a lecture programme on the topic—"How to Minimise Food Wastage". Hyderabad Regional Office of IBM ran an Awareness Campaign on "Water Conservation".

The North Zonal Office of IBM at Udaipur, organized a workshop on "Best Lifestyle Practices in Office" and also had posters on safe environment displayed at prominent spots in the office premises.

IBM's Regional Office at Ajmer organized a Quiz competition for its employees. A variety of topics under the subject of the campaign, i.e., Environment literacy, Climate change, Plastic pollution, Deforestation, Biodiversity etc. were covered under the quiz competition.

An informative workshop on Best Lifestyle Practices was conducted at IBM Headquarters on 31.05.2023. Conducted by Shri V.K. Saxena, Sr Library Assistant, the workshop had detailed presentations on Methods to minimize lifestyle stresses; Importance of yoga as effective tool against stress; Common lifestyle disorders; Benefits of Meditation— in coping with stress, calming the mind and developing inner peace. The well-attended session was part of the activities organized by IBM under the Campaign on LiFE.

### **8.16.2 Cycle rally**

IBM had gone about setting its agenda rolling by organizing a Bicycle Rally. A bunch of enthusiastic participants from the IBM Headquarters took part in the rally by riding several kilometers with the sole purpose of spreading the message "Cycle to Save Environment". It's common knowledge that cycling in contrast to fuel vehicle is a clean air form of transportation. It does not create air pollution. Every time you cycle just one kilometre instead of driving, you save over 300 grams of toxic CO<sub>2</sub> greenhouse emissions. At IBM Headquarters the Mission Campaign on LiFE saw several poster displays at prominent spots.

IBM's Zonal Office at Kolkata organized a Rally to raise the awareness about the detrimental impact of non-biodegradable waste, Water wastage and Global warming. The purpose of holding such a rally was mainly aimed at educating the community about lifestyle practices that could engender

harmony in the Environment, foster environmental responsibilities and encourage sustainable practices.

### **8.16.3 Paperless Office**

The Regional Office of IBM at Jabalpur as part of the campaign arranged a session on the topic “How to Minimise Use of Paper in Office”. The forum elaborately discussed the topic and the Regional Controller of Mines shared valuable information on achieving the mark of being a Paperless Office.

### **8.16.4 No to Plastic: Clearance of plastic wastes from premises**

IBM’s Kolkata Zonal Office as part of the campaign organised cleanliness drive along with plastic collection activity. The employees of the office collectively engaged in cleaning up the office premises and collecting of non-biodegradable single use plastic waste and arranged for their safe disposal. The Kolkata Zonal Office of IBM, as part of the campaign, organised a workshop on Environment Conservation and Plastic Waste Management on 23.05.2023. Valuable insights on the deleterious effects of plastic wastes and importance of management of waste generated from single use plastic were shared during the course of the workshop.

IBM Headquarters on 25.05.2023 organised a drive for clearance of plastic wastes from its premises. A group of 25 volunteers enthusiastically participated in the drive to rid the premise clean of single use plastic waste. Cleanliness drive along with plastic waste collection was conducted at IBM’s Modern Mineral Processing Laboratory & Pilot Plant premises in Hingna on 25.05.2023. IBM’s Ajmer Regional Office organised a Plastic Waste Collection program as part of the Awareness activity pursued under the campaign. IBM’s Offices at Jabalpur and at Gandhinagar too undertook cleanliness drive that involved collection of plastic wastes and their safe disposal.

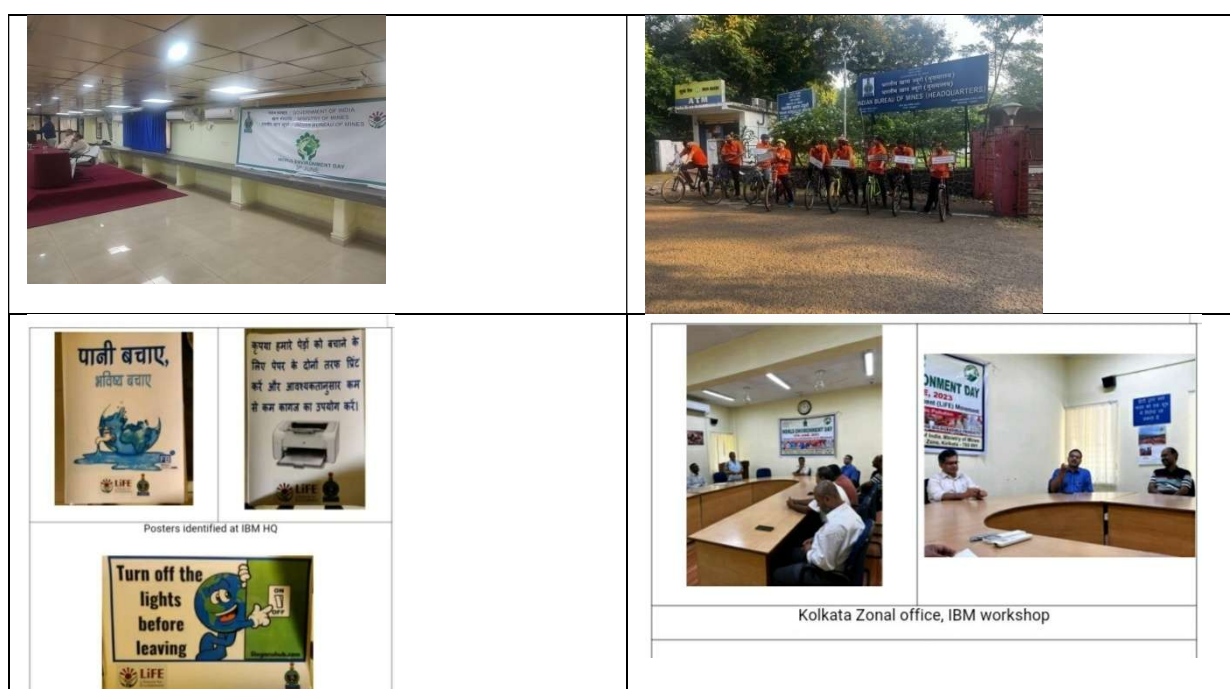
### **8.16.5 Poster Creation and Slogan Writing**

IBM’s Zonal Office at Kolkata as part of its multi-pronged initiative organized an Event for Poster Creation and Slogan Writing on topics based on Safe/Clean Environment. Besides, a drill to create awareness on Minimizing Food Wastage was taken out wherein volunteers visited the nearby Tea shops and Dhabas mainly to spread the awareness of curtailing food wastage. The drill, a success by all means, did have the earnest participation and cooperation of local people and vendors who joined the team from IBM in its efforts.



### 8.16.6 Planting Saplings

IBM organised a drive of “Planting Saplings” at its premises in the Headquarters. All senior officers of the Bureau enthusiastically participated in the drive which was specially organised to mark its campaign on LiFE that which has been actively pursued by the Bureau. Shri P.N. Sharma, CCOM (MDR); Shri S.K. Adhkari, CMG; Shri Abhay Agrawal, COM (CZ); Shri P.K. Bhattacharjee, COM; Dr Dillip Ranjan Kanungo, Director (OD) I/c; Shri Anil H. Ramteke, Director (Statistics); Shri G.V.G.K.Bhagavan, SgMG& Technical Secretary; and Shri A. Hari Kumar, PAO, planted a sapling each during the occasion. On 26.05.2023, a drive focusing on Planting Saplings was successfully pursued at IBM’s Mineral Processing Lab in Hingna.

A drive on “planting saplings” in the office premises too was organized by Ajmer Office on 25.05.2023.





  <p>Regional office &amp; RMPL Ajmer plastic waste collection campaign</p>	 <p>Plantation drive at Jabalpur regional office</p>
  <p>a posters and slogans making event Kolkata Zonal office, IBM</p>	
	
	
<p>Glimpses of Campaign on “Mission Lifestyle for Environment (LiFE)” at IBM HQ &amp; various ROs</p>	

### 8.17 Meri Maati Mera Desh Pogramme

IBM in response to the clarion call of Ministry of Culture in preparation of Amrut Vatika under the programs **Meri Maati Mera Desh** and **Amrit Kalash Yatra** had set itself target to collect Mitti from various Mine sites across the country. Ministry of Mines had committed 75 Kalash with 75 varieties of

mines-mitti in commemoration of 75 years of Amrut Mahotsav. CG, IBM, had flagged off the event of Amrut Kalash from Hyderabad on 13.10.2023 .

Further, IBM organized a grand display of Amrit Kalash containing soil and sapling from prominent mines in India at IBM HQ. The Secretary (Mines), Shri V.L. Kantha Rao, inaugurated the Amrit Kalash program on 20.10.2023 at IBM Headquarters wherein Kalash Containing Maati and Saplings from various mines in and around Nagpur was placed on display for the yatra under the "Meri Maati Mera Desh Pogramme". Secretary (Mines) also interacted with media personnel on this occasion. Later on 21.10.2023, Amrit Kalash with maati& saplings that reached IBM Headquarters from prominent mines under Central Zone jurisdiction was flagged off by Dr Y.G. Kale, COM (CZ). The truck with all Kalash is headed for New Delhi where the Kalash will be taken and placed in the Amrit Kalash Vatika.

### **8.18 Launch of Swachh Diwali Shubh Diwali Campaign**

Under the Swachhata Initiative, the Government had launched a fresh campaign on 'Swachh Diwali Shubh Diwali' from 6th –12th November 2023. The components of this campaign included — “Swachh Diwali Signature Campaign”, wherein Citizens were encouraged to sign for clean, green, SUP free Diwali. Their resolve could be demonstrated by joining the Signature Campaign on MyGov portal and “Swachh Diwali Video Reels” wherein Citizens would be encouraged to showcase unique ways of their Swachh Diwali celebrations by making short video reels (30-60 seconds) and sharing the same on social media platforms. IBM had set the ball rolling on the unique Initiative. Hearty participation of all officers and staff of IBM on this special campaign was encouraged.

### **8.19 Swachhata Campaign 3.0**

Special Campaign 3.0 with a focus on activities of field offices has been observed in IBM HQ and all other field locations during the period 02.10.2023 to 31.10.2023. In this campaign, record management 8000 files, Disposal of Scrap/ Obsolete items, Development of four Innovative ideas, 30 Outdoor special campaign activities in schools and other public places, Cleanliness and beautification of office premises, Eco-friendly and tourist attract activities in selected 15 mine sites have been proposed as targets.

For Record Management 100 % target achieved. (Against Proposed 4) 7 innovative ideas (development of 3 compost pit sites one each at Jabalpur regional office, Ajmer regional office and Govt. run school in Ranchi.



Developed herbal garden and Badminton court at EZ Kolkata office. Developed Volleyball court at Bangalore office have been completed. More than 100% achieved. 51 Outdoor special campaigns in schools and other public places against 30 targets. More than 100 % achieved. 2182 Sq Ft space is created. Obsolete items / scrap disposed and Rs. 4,43,420/- revenue is generated. Further some offices have identified scrap and old vehicles for disposal and work is in progress. Fit India Run 4.0 has been organized at all 16 locations of IBM in the country during this campaign period. Regarding eco-friendly and tourist attract activities in selected 15 mine sites, some have been completed and some are in progress.

## **8.20 Swachhata Pakhwada 2023**

As per the directions of Ministry of Mines, IBM chalked out an action plan on activities to be taken up during the Swachhata Pakhwada from 16.11.2023 to 30.11.2023 and carried out the same at mine locations as well as at IBM office premises. In addition to the cleanliness and Swachhata activities at office premises and residential localities of IBM, all regional offices of IBM have been advised to take up the following activities at mine locations under their respective jurisdictions.

- a. Clean & Swachh mines:
- b. Targeting adjoining villages/ towns/ areas to make ODF
- c. Launching of pilot schemes of zero waste mines
- d. Swachhata message dissemination through banners, posters etc.
- e. Hygiene kits for the labours.
- f. Massive tree plantation and Shramdaan

Further, the day wise action plan and daily activities with relevant photographs have been uploaded time to time on Swachh Samiksha portal. The activities have also been given wide publicity through print media and official social media handles of IBM. Brief Note on Special Campaign 3.0/ Swachhata Pakhwada and other related activities undertaken during 2023 is enclosed at **Annexure.**

## **8.21 Important Meetings**

### **8.21.1 National Geoscience Awards 2022**

Shri S.K.Adhikari, Chief Mining Geologist, IBM attended the National Geoscience Award -2022 Ceremony on 24.07.2023 at Rashtrapati Bhavan Cultural Center (RBCC) , New Delhi.

### **8.21.2 Outreach Programme and Launch of the 1st Tranche of Auction of Critical Mineral Blocks**

Shri Pankaj Kulshreshtha, Chief Controller of Mines in charge MES, attended the Outreach Programme and Launch of 1st Tranche of Critical Mineral Blocks Auction in India at the Bharat Mandapam on 29<sup>th</sup> November, 2023. After formally launching the first tranche e-auction of critical mineral Union Minister of Coal, Mines and Parliamentary Affairs Shri Pralhad Joshi mentioned that the critical minerals are poised to play a vital role in India's pursuit of sustainable development goals, addressing climate change and the realization of the Atma Nirbhar Bharat.

In his Address Shri VL Kantha Rao, Secretary, Ministry of Mines spoke about securing supply chain, efforts to reduce import dependency, enhance national security and to establish a domestic value chain to meet growing demands of Critical Mineral. Government is committed to fostering the growth of the domestic critical minerals sector by focusing on exploration, processing, beneficiation and recycling.

### **8.21.3 Study Visit of the Committee on Subordinate legislation, Rajya Sabha to Goa from 29-30, November, 2023**

Dr. Y.G. Kale, Controller of Mines, IBM attended the discussions with the Committee **on Subordinate legislation, Rajya Sabha** at Goa on 29.11.2023, on behalf of Ministry of Mines, during the Study Visit of the Standing Committee on Subordinate Legislation to Goa from 29-30 November, 2023. The agenda for discussion was "various aspects (implementation and monitoring) of Rules and Regulation pertaining to environmental and safety issues of mining."

### **8.21.4 Study visit of the Joint Committee on the Forest (Conservation) Amendment Bill, 2023 to Srinagar, Guwahati and Bhubaneswar from 02.06.2023 to 07.06.2023.**

Shri Pankaj Kulshreshtha, Chief Controller of Mines I/c (MES) and Shri B.L Gurjar, Regional Controller of Mines, IBM Bhubaneswar attended the committee meeting at Bhubaneswar on 07.06.2023.

### **8.21.5 Release of List of Critical Minerals**

Hon'ble Minister of Coal, Mines and Parliamentary Affairs Shri Pralhad Joshi released a report on "**Identification of Critical Minerals for India**" on **28th**

**June 2023** in an official event at India International Centre, New Delhi. This comprehensive list of 30 critical minerals has been prepared after detailed assessment and consultations with experts from academia, industry, and the stakeholders based on several factors. Shri Pankaj Kulshreshtha, Chief Controller of Mines, in charge IBM attended the Report Releasing Ceremony.

**8.21.6 Bangalore Region** -Dr. Suresh Prasad, RCOM and Dr. Sudhakara T.L., SMG attended the Technical meeting chaired by Secretary (MSME & Mines) State Govt. of Karanataka at VikasaSoudha, Bangalore held on 08/05/2023 to discuss the issue of waste dump sliding at ML No. 2502 of M/s P. BalasubbaShetty.

**8.21.7 Ajmer-** A meeting was held on 12.06.2023 with COM(NZ) to discuss the registration issue of Rock-phosphate blocks reserved by MOM under section 17A of MMDR Act, 1957 in favour of M/s FAGMIL vide Gazette Notification GSSR 1221(E) dated 19.12.2018.

**8.21.8 Ajmer-** Sh. ChandreshBohra, DCOM (OIC) attended the awareness programme on “Geo-heritage Site for Acceleration of Metal- Nepheline Syenite” organized by GSI on 25.07.2023 at Kishangarh, Ajmer.

## **8.22 Visitor to IBM from Ministry of Mines**

### **8.22.1 Visit of Mozambican Delegation at IBM**

Delegation from Mozambique comprising Mr Elias Xavier Félix Daudi – Director General of INAMI, Mr Cândido Rangeiro – National Director of Geology and Mines, MrZaquirlssufo – Director of SPTMA at INAMI, Mr Salazar Mangumo – Director Inspection Services – IGREME and Mr Camilo Langa– Head of the Cooperation Department at the DP commenced the first round of meeting with Team IBM led by Shri P.N. Sharma, CCOM–MDR (I/c) at IBM Headquarters on 8th June 2023.

After a brief presentation by Dr. Bhagwan, Tecgnical Secretary, IBM on functions and Activities of IBM, the visiting delegates from Mozambique under the MoU on cooperation in the field of Mineral Resources at IBM were presented with Technical Presentations on Sustainable Development Framework (SDF) & Star Rating System by Shri M. Purohit, Sr. ACOM; Mining Surveillance System Applications by Shri D. Bhardwaj, DCOM; Drone Applications in Mining Activities by Shri S.K. Adhikari, CMG.

The delegates in the afternoon of 8th June 2023 visited IBM's Modern Mineral Processing Lab & Pilot Plant at Hingna. Dr D.R. Kanungo, Director (OD) I/c, showed the visiting delegates around the Pilot Plant and explained the various facilities available and the Ore Dressing processes undertaken at the Lab.



#### 8.22.2 Visit of Secretary Mines to IBM Headquarters, Nagpur and Modern Mineral Processing Laboratory, MIDC, Hingna on 20.10.2023

The Secretary (Mines), Shri V.L. Kantha Rao, IAS visited IBM Headquarter at Nagpur and IBM's Modern Mineral Processing laboratory and Pilot Plant at MIDC, Hingana on 20.10.2023.

Secretary (Mines) chaired a Review Meeting with the senior officers and Divisional Heads at IBM Headquarters and gave valuable directions on improvements in Star Rating System, Indian Minerals Year Book, Skill upgradation & Capacity building, Synergy between R&D Institutions etc.



Secretary (Mines) inaugurated "Mineral Surface Characterization Facility" comprising new sophisticated instruments (i) Zeta & Particle Size Analyzer and (ii) BET Surface Area Analyzer, procured through NMET financial assistance and suggested to improve the lab with World Class facilities.

Secretary (Mines), visited the Mining Tenement System Section to review the latest developments and features of the Mining Plan Approval System (MPAS) and scale of progress achieved in the recent past.

The Secretary (Mines) also released the latest Issue of IBM's Hindi magazine "Khan Bharati 2023".



Visit of Secretary (Mines) to IBM HQ and Pilot Plant (20.10.2023)



## 8.23 Foreign Visits of IBM officers

### 8.23.1 Visit of Dr.Y.G.Kale, Controller of Mines, IBM to Magnolia

The Indian delegation led by Shri Shakil Alam, Economic Advisor, Ministry of Mines, Government of India, accompanied by Senior Officers of Geological Survey of India, HCL, NALCO, NMDC and **Dr.Y.G.Kale, Controller of Mine from IBM**, visited Ulaanbaatar, Mongolia from 3<sup>rd</sup> to 5<sup>th</sup> October, 2023 to attend Mongolia Mining Expo 2023. An Indian Pavilion depicting brief highlights on Indian mining and mineral sectors was constructed at the venue of Mongolia Mining Expo 2023.

Delegation visited various stalls and interacted with Mineral Resources and Petroleum Authority of Mongolia. Indian Delegation met the Mongolian delegation led by Mr. Ankhbayar Boldbaatar, DG, Ministry of Mining and Heavy Industry, accompanied by Mr. Tuvshinjargal Bandi, Director, Mineral Resources & Petroleum Authority of Mongolia and other officials at Ulaanbaatar on 5th October, 2023. They discussed at lengths on a wide range of issues of common interest in the mining sector, including enhancing scope for bilateral cooperation in mining trade & investment.

Shri Shakil Alam, delivered a lecture on India's Mineral Sector: Initiatives and Opportunities, which was telecasted, live by Bloomberg TV Mongolia. Indian delegation visited Indian Embassy at Mongolia and interacted with the Indian Ambassador to Mongolia, H.E. Shri M.P. Singh and briefed him about the way forward in strengthening India's presence in the mining sector of Mongolia.





Visit of Dr.Y.G.Kale, Controller of Mines, IBM to Magnolia

### 8.23.2 Visit of Shri Pushpender Gaur, RCOM, Gandhinagar, IBM to London, United Kingdom

As a member of Indian delegation led by Secretary, Ministry of Mines, Shri Pushpender Gaur, RCOM, Gandhinagar participated in 'London Metal Week' Annual gathering and session on 'Responsible Investment into Critical Minerals Sector' from 9th to 10th October, 2023 in London, United Kingdom.

### 8.23.3 Visit of Shri S.K.Adhikari, Chief Mining Geologist, IBM to Australia

Indian Delegation led by Hon'ble Minister of State for Mines, Coal and Railways, Government of India Shri Raosaheb Patil Danve accompanied by Senior Officers of Ministry of Mines, Ministry of Steel, Geological Survey of India and Shri S.K.Adhikari, Chief Mining Geologist, IBM visited Australia to participate in "International Mining and Resources Conference(IMARC)-2023 at Sydney from 31<sup>st</sup> October, 2023 to 2<sup>nd</sup> November, 2023.

### 8.23.4 Visit of Shri Manish Maindirattta, RCOM, IBM to Geneva

Shri Manish Maindirattta, RCOM, IBM, as a member of Indian delegation from the Ministry of Mines, took part in the 19th AGM of the Intergovernmental Forum on Mining, Minerals, Metals and Sustainable Development on 7th November 2023 at Geneva. The Indian delegation apprised the member

nations on India's success in extending Mineral Concessions through auction method and flagged the issues relating to the vulnerabilities in the critical mineral supply chain.



Shri Manish Maindiratta, RCOM, IBM as a member of Indian delegation in the 19th AGM on at Geneva (7th November 2023)

#### **8.23.5 Visit of Shri B.L. Gurjar, Controller of Mines, IBM to Dubai, UAE**

Shri B.L. Gurjar, Controller of Mines, visited Dubai, UAE as a member of delegation under the leadership of Ms. Nirupama Kotru, Joint Secretary and Financial Advisor, Ministry of Mines, Government of India, to participate in Mining Show-2023 held from 21<sup>st</sup> to 22<sup>nd</sup> November, 2023.

#### **8.23.6 Visit of Dr.Dilip Ranjan Kanungo, Chief Ore Dressing officer, IBM to S. Africa**

Indian delegation led by Mr. Sanjay Lohiya, Additional Secretary Ministry of Mines, Government of India visited South Africa for participating in the "Mining Indaba-24" event at Cape Town, South Africa during 5<sup>th</sup> to 8<sup>th</sup> February, 2024. Dr.Dilip Ranjan Kanungo, Chief Ore Dressing officer, IBM accompanied as member of the Indian Delegation.

On sidelines of Mining Indaba in Capetown, Shri Sanjay Lohiya held bilateral meeting with Deputy Minister of Minerals of Tanzania, Wizaraya Madini H.E. Dr. Steven L Kiruswa & his delegation to explore potential collaboration between India & Tanzania in mining sector on sidelines of Mining Indaba in Capetown.

Further, to strengthen the bilateral relationship between India and the Republic of Cote d'Ivoire, an MoU has been signed for collaboration in the field of Geology and Mineral Resources. Shri Sanjay Lohiya, Additional Secretary, Ministry of Mines, Government of India on behalf of Minister of



Mines, Government of India and Mr. Mamadou Sangafiwa Coulibaly, Minister of Mines, Petroleum and Energy, Government of Republic of Côte d'Ivoire signed this MoU on the sideline of Mining Indaba, Cape Town, South Africa.



#### **8.23.7 Visit of Shri Varigonda Jaya Krishna Babu, COM(SZ), IBM to Toronto, Canada**

Shri Varigonda Jaya Krishna Babu, COM(SZ), Bangalore Participated in PDAC-2024 held at MTCC in Toronto, Canada during 3rd-6th March-2024.

#### **8.24 Representation on Committees**

##### **Ranking of States on the basis of various parameters including taxation and policy for the Minor Minerals**

Dr. Y.G.Kale, Controller of Mines, IBM, as a member of the group constituted by the Ministry, which is being headed by Economic Adviser (Mines), attended a meeting on 9.1.2024 through VC Link and attending the preparatory work on the theme assigned for Literature survey of State Indices, etc.

## **8.25 Participation in Seminar/Symposium/Workshops**

### **8.25.1 Environment and Climate Sustainability Working Group (ECSWG)**

India is holding the Presidency of G20 for one year till 30th November 2023. Under India's deliberations, meetings of the Environment and Climate Sustainability Working Group are being scheduled by the Ministry of Environment, Forests and Climate Change. In the process, 3rd Meeting of the Working Group was held in Mumbai from 21st to 23rd May 2023. Controller General (I/C), IBM nominated Shri Abhay Agrawal, Controller of Mines, IBM, to participate in the Technical Session 1 of the 3rd ECSWG meeting on 22nd May 2023 as the valued Knowledge Partner for the Environment Working Group and on the theme of Biodiversity, Land Degradation and Eco-restoration with reference to the priorities of the Indian Presidency.

#### **1st Mining Start-up Summit**

Ministry of Mines has been promoting productivity and innovation in exploration and mining of minerals for fulfilling the vision of “Atama-nirbhar Bharat”. In Order to encourage the participation of start-ups in Mineral and Mining Sector, Ministry of Mines organized the 1st Mining Start-up Summit in collaboration with Indian Institute of Technology, Bombay at IIT Bombay, Powai on 29th May, 2023. Shri Pankaj Kulshreshtha, Chief Controller of Mines in charge MES, IBM attended the summit.

### **8.25.2 12th India Minerals & Metals Forum**

Indian Chamber of Commerce, in association with Ministry of Mines Government of India, successfully organized the 12th India Minerals & Metals Forum, a National Conference on Mineral Beneficiation. The Conference was held on 30th June 2023 in New Delhi.

Dr Dillip R. Kanungo, Chief Ore Dressing Officer and Director (OD) I/c, IBM delivered a comprehensive lecture on the Policies Impacting the Indian Industry in relation to mineral beneficiation in the session on Beneficiation of Low and Lean-grade Ores.

Earlier, inaugurating the Conference Shri Vivek Bharadwaj, Hon'ble Secretary, Ministry of Mines, Government of India, spoke extensively on the implicit need to refocus attention towards minerals which are required for the future, i.e. critical minerals. Highlighting on the need for a policy to make mining of critical minerals and their extraction economically viable, the Secretary emphasized on the direction of the Government towards this front.



### 8.25.3 26<sup>th</sup> e-Governance Conference at Indore from 24.8.23 to 25.8.23

IBM participated in the 26th National E-Governance Conference held at Indore on 24-25 August 2023. A team led by Shri P.K. Bhattacharjee, Controller of Mines represented IBM at the conference. IBM partnering with GSI had set up a stall that mainly showcased the advancements made by IBM in Mining Tenement System that features the latest online Mining Plan Approval System (MPAS).

Shri Om Prakash Sakhlecha, Hon'ble Minister of Micro, Small & Medium Enterprises (MSME), Science & Technology, Government of Madhya Pradesh the Honb'le Minister inaugurated the Stall set up by IBM/GSI in the presence of Shri Sanjeev Verma, Director, Ministry of Mines, Govt of India and Team-IBM.

Distinguished visitors at IBM's Stall at the Conference included Union Minister of State (Independent Charge), for the Ministry of Science and Technology and Minister of State for Prime Minister's Office; Personnel, Public Grievances and Pensions; Department of Atomic Energy and Department of Space, Dr. Jitendra Singh and Shri Shaitan Singh Pal, Chairman & Director, Madhya Pradesh State Electronics Development Corporation Ltd. Honorable Ministers, Senior Govt. Officials, Scientists, Academia and Students visited the exhibition stall of Indian Bureau of Mines at the 26<sup>th</sup> National e-Governance Conference held at Indore from 24.8.23 to 25.8.23. Visitors were very inquisitive about the ideas of Mining Tenement System.





**IBM's participation in the 26th National E-Governance Conference (24-25 August 2023)**

#### **8.25.4 2nd State Mining Ministers' Conference**

2nd State Mining Ministers' Conference was held on 23.01.2024 at Bhopal, Madhya Pradesh. Shri Pralhad Joshi, Union Minister, Coal & Mines and Parliamentary Affair presided over the function. Dr. Mohan Yadav, Chief Minister, Madhya Pradesh graced the function as Chief Guest.

Hon'ble Minister and Chief Minister and other State Mining Ministers were felicitated by senior officers of Ministry of Mines, Government of India. Conference focused on strategic exploration, sustainable practices, & technological advancements. Shri VL Kantha Rao, Secretary, Ministry of Mines, Government of India, explained opportunities in offshore mining and the importance of exploration and auction of critical minerals. He added that a revenue of 1,60,000 crores had been generated to States since the launch of the auction regime in 2015. He also urged the state governments to work together for sustainable development of the mining sector.

On the sidelines of the 2nd Mining Ministers' Conference the 'Mining & Beyond' exhibition was also organized. In this exhibition, CPSEs of Ministry of Mines, Government of India and attached offices of the ministry showcased technical acumen related to the sector.

Hon'ble Minister of Mines Shri Pralhad Joshi launched the Average Sale Price (ASP) module, an online platform where the real-time data of submitted returns was automatically fetched from the returns module (ibmreturns.gov.in). Overall, this system facilitated the ease of doing business & cut down the time requirement to generate the ASP. Now, ASP for the previous month could be released in the next month itself. Union Minister Shri Pralhad Joshi also launched the new template for Star Rating Mines, an online platform based on industry feedback and the experience of previous years.

New star rating templates were prepared for small mines and large mines separately instead of a common star rating template for all mines from the year 2023-24. Ministry of Mines, Government of India felicitated the best performing States for their contribution in Mineral Block Auction for FY 2022-23.

#### **8.25.5 63rd CGPB Meeting on 22.01.2024 at Bhopal**

Shri VL Kantha Rao, Secretary, Ministry of Mines, Government of India in his inaugural address at 63rd Central Geological Programming Board Meeting at Bhopal mentioned the importance of scientific rigor in mining sector. He also urged to increase the pace of exploration and emphasized on exploration of Critical Mineral. He mentioned that MMDR has been amended to boost exploration. He requested stakeholders to use geoscience data available in NGDR portal for smooth exploration process. On the sideline of 63rd Central Geological Programming Board Meeting Shri V. L. Kantha Rao, Secretary, Ministry of Mines, Government of India, shared insights with the media emphasizing the importance of critical mineral in energy transition as well as the role in economic growth of the country.

Shri Sanjay Lohia, Additional Secretary, Ministry of Mines and Controller General in charge IBM addressed the august gathering of 63rd Central Geological Programming Board Meeting. He emphasized on Composite Licence and Exploration Licence policies of the ministry. He explained how ministry is focusing on beneficiation of critical mineral. He also noted about the usage of NGDR Portal.

## 9.0 Work related to Hindi

### हिंदी का प्रगामी प्रयोग

भारतीय खान ब्यूरो अपने मुख्यालय तथा सभी अधीनस्थ कार्यालयों में भारत सरकार की राजभाषा नीति को प्रभावी ढंग से कार्यान्वित कर रहा है। भारतीय खान ब्यूरो का मुख्यालय नागपुर, महाराष्ट्र में है जो 'ख' क्षेत्र में स्थित है। 06 अधीनस्थ कार्यालय 'क' क्षेत्र में, 01 अधीनस्थ कार्यालय 'ख' क्षेत्र में तथा शेष 08 अधीनस्थ कार्यालय 'ग' क्षेत्र में स्थित है। भारतीय खान ब्यूरो के सभी अधीनस्थ कार्यालयों ने राजभाषा विभाग के वार्षिक कार्यक्रम उल्लिखित लक्ष्यों को प्राप्त कर लिया है। वर्ष 2022-23 के दौरान हिंदी कार्यान्वायन से संबंधित प्रगति का विवरण निम्न प्रकार है:-

#### **9.1 Parliamentary Committee on Official Language (RAJBHASHA) Meets at Raipur**

संसदीय राजभाषा समिति की तीसरी उप समिति द्वारा क्षेत्रीय कार्यालय, रायपुर का राजभाषा निरीक्षण:- संसदीय राजभाषा समिति की तीसरी उप समिति द्वारा क्षेत्रीय कार्यालय, रायपुर का दिनांक 2023/05/23 को राजभाषा निरीक्षण हेतु निरीक्षण प्रश्नापवली के मुख्यालय से संबंधित जानकारी के 03 पृष्ठ तैयार किए गए एवं उक्त निरीक्षण से संबंधित अन्य आवश्यक कार्य किए गए। भारतीय खान ब्यूरो (मुख्यालय), नागपुर से उक्त निरीक्षण के दौरान डॉ. वाय. जी. काले., खान नियंत्रक एवं राजभाषा अधिकारी उपस्थित थे। (पी.एम.टी) समिति के अध्यक्ष एवं उपाध्यक्ष सहित माननीय संसद सदस्यों ने रायपुर कार्यालय में राजभाषा हिंदी के कार्यान्वयन के उल्लेखनीय कार्यों की सराहना की।

**9.2 विभागीय राजभाषा कार्यान्वयन समिति की दिनांक 12/04/2023 को 125 वीं बैठक का आयोजन:-** विभागीय राजभाषा कार्यान्वयन समिति की 125 वीं बैठक श्री पंकज कुलश्रेष्ठ, मुख्य खान नियंत्रक) प्रभारी (की अध्यक्षता में दिनांक 12/04/2023 को अपराह्न 4.00 बजे महानियंत्रक महोदय के सभाकक्ष में आयोजित की गई। सर्वप्रथम खान नियंत्रक) टी.एम.पी. ( एवं राजभाषा अधिकारी डॉ. वाय. जी. काले द्वारा अध्यक्ष महोदय तथा समिति के अन्य सदस्यों का बैठक में स्वागत किया गया। तत्पश्चात अध्यक्ष महोदय की अनुमति से बैठक की कार्यवाही प्रारंभ की गई। सर्वप्रथम राजभाषा अधिकारी द्वारा समीक्षाधीन तिमाही के दौरान हिंदी सम्बन्धी कार्यों का विवरण सभा के समक्ष पढ़कर सुनाया गया। बैठक में पिछली बैठक में लिए गए निर्णयों पर की गई अनुवर्ती कार्रवाई पर निम्नानुसार चर्चा की गई।

**9.3 भारतीय खान ब्यूरो, गोवा, में मडगांव नराकास की छमाही बैठक का आयोजन सह पुरस्कार वितरण समारोह :-** भारतीय खान ब्यूरो, गोवा, मडगांव नगर राजभाषा कार्यान्वयन



समिति का संयोजक कार्यालय है। दिनांक 30/05/ 2023को मडगांव नराकास अध्यक्ष श्री नरेश कुमार कटारिया, उप खान नियंत्रक एवं कार्यालय प्रभारी की अध्यक्षता में इस समिति की छमाही बैठक आयोजित की गई। बैठक में मुख्य अतिथि श्री बी .बी .निकम, क्षेत्रीय रेल प्रबंधक, कोंकण रेलवे विशिष्ट अतिथि श्री प्रदीप सिंह, बैंक ऑफ इंडिया, मडगांव तथा श्री स्टैलिन पी., मुख्य प्रबंधक, बैंक बडौदा, मडगांव अपने-अपने संबोधन में राजभाषा हिंदी के महात्व पर प्रकाश डाला तथा सदस्य कार्यालयों के हिंदी कार्यान्वयन की दिशा मडगांव नराकास द्वारा किए जा रहे सार्थक प्रयासों की सराहना की और अध्यक्ष तथा सदस्य सचिव के प्रति आभार अभिव्यक्त किया।

वर्ष 21-2020 तथा 22-2021 के दौरान राजभाषा हिंदी के श्रेष्ठ क्रियान्वयन के लिए 16 सदस्य कार्यालयों को) कार्यालय, उपक्रम तथा बैंक श्रेणी में (पुरस्कृत किया गया, जिसमें भारतीय खान ब्यूरो, गोवा को कार्यालय श्रेणी में उक्त दोनों वर्षों के लिए प्रथम पुरस्कार प्रदान किए गए। इसी पुरस्कार वितरण समारोह में उक्त वर्षों में मडगांव नराकास के तत्वावधान में बैंक ऑफ इंडिया और बैंक ऑफ बडौदा द्वारा आयोजित हिंदी प्रतियोगिताओं के विजेताओं को पुरस्कार प्रदान किए गए। बैंक ऑफ बडौदा द्वारा आयोजित हिंदी प्रतियोगिता में कार्यालय के श्री भागवत दास, आशुलिपिक, गोवा ने प्रथम पुरस्कार और बैंक ऑफ इण्डिया द्वारा आयोजित हिंदी काव्य पाठ प्रतियोगिता में श्री संदीप धाकड़, आशुलिपिक, गोवा ने द्वितीय पुरस्कार प्राप्त किया।

अपने अध्यक्षीय संबोधन में श्री नरेशकुमार कटारिया, अध्यक्ष, मडगांव नराकास एवं कार्यालय प्रभारी ने मुख्य अतिथि, विशिष्ट अतिथियों तथा राजभाषा विभाग से वीडियो कॉन्फ्रेंसिंग के माध्यम से बैठकमें शामिल डॉ. सुस्मिता भट्टाचार्य, उपनिदेशक, कार्यान्वयन कार्यालय, मुंबई के प्रति अनन्य आभार व्यक्त किया। बैठक का संचालन श्री आर. सी. महतो, क. अनुवाद अधिकारी द्वारा किया गया।





भा. खा. ब्यू. गोवा, में मडगांव नराकास की छमाही बैठक का आयोजन सह पुरस्कार वितरण समारोह

#### 9.4 भारतीय खान ब्यूरो, मुख्यलय, नागपुर में दिनांक 14/06/2023 को अखिल भारतीय विशेष हिंदी कार्यशाला का आयोजन

भारत सरकार की राजभाषा नीति के कार्यान्वयन एवं हिंदी के प्रचार - प्रसार व प्रगति के उद्देश्य को ध्यान में रखते हुए तथा खान मंत्रालय के निदेशानुसार अधीनस्थ क्षेत्रीय एवं आंचलिक कार्यालयों में कार्यरत हिन्दी संपर्क अधिकारियों एवं हिन्दी कार्य से जुड़े कर्मिकों हेतु भारतीय खान ब्यूरो, मुख्यालय, नागपुर में दिनांक 14 जून, 2023 को अखिल भारतीय विशेष हिंदी कार्यशाला का आयोजन किया गया। इस हिंदी कार्यशाला में कुल 31 अधिकारी एवं कर्मचारियों ने उत्साहपूर्वक भाग लिया।

इस अवसर पर आयोजित उदघाटन समारोह की अध्यक्षता मुख्य खान नियंत्रक श्री पी. एन. शर्मा ने की तथा मुख्य अतिथि के तौर पर मुख्य खान नियंत्रक श्री पंकज कुलश्रेष्ठ उपस्थित थे। इस अवसर पर खान नियंत्रक एवं राजभाषा अधिकारी डॉ. वाय. जी. काले विशेष रूप से उपस्थित थे।

अपने संबोधन में राजभाषा अधिकारी डॉ. वाय. जी. काले ने इस कार्यशाला की भूमिका एवं उद्देश्यपर प्रकाश डालते हुए सभी को अपने क्षेत्रों में ऐसी कार्यशाला आयोजित करने का सुझाव दिया। मुख्य खान नियंत्रक श्री पंकज कुलश्रेष्ठ ने राजभाषा विभाग द्वारा जारी विभिन्न कार्यक्रमों की जानकारी देते हुए कहा कि प्रतिभागी अपने कार्यालय में लौटने के पश्चात हिन्दी में कार्य करने हेतु प्रेरित करें। मुख्य खान नियंत्रक श्री. पी. एन. शर्मा ने हिन्दी में होनेवाली त्रुटियों व आनेवाली समस्या तथा इसके समाधान पर अपने विचार रखते हुए इस कार्यशाला को उपयोगी बताया। श्री. ए. के. शर्मा, संपादक ने हिन्दी कार्यशाला का संक्षिप्त परिचय दिया।

हिंदी कार्यशाला में वेस्टर्न कोलफील्ड लिमिटेड के डॉ. मनोज कुमार, सचिव नराकास ने राजभाषा नीति व तिमाही प्रगति रिपोर्ट, श्री असीम कुमार, कनिष्ठ अनुवाद अधिकारी ने संसदीय राजभाषा समिति की प्रश्नावली, राजभाषा अधिकारी डॉ. वाय. जी. काले ने राजभाषा विभाग द्वारा जारी निदेश, एवं श्री. ए. के. शर्मा, संपादक ने ई-ऑफिस में हिन्दी टंकण की जानकारी आदि विषयों पर अपने व्याख्यान दिए।

अपने व्याख्यान में डॉ. मनोज कुमार ने राजभाषा नीति विषय पर व्यापक रूप से अपने विचार रखे तथा तिमाही प्रगति रिपोर्ट को भरने में आने वाली कठिनाईयों का समाधान किया। श्री असीम कुमार, कनिष्ठ अनुवाद अधिकारी ने विभिन्न समितियों की जानकारी देते हुए संसदीय राजभाषा समिति के कार्यों के बारे में विस्तार से बताया साथ ही संसदीय राजभाषा समिति की प्रश्नावली को भरने में आने वाली समस्याओं का समाधान किया। राजभाषा अधिकारी डॉ. वाय. जी. काले ने संविधान में राजभाषा से संबंधित विभिन्न अनुच्छेदों, कानूनी प्रावधानों, नियमों, अधिनियमों की विस्तृत जानकारी देते हुए हिन्दी के कार्यान्वयन हेतु भारत में विभाजित किए गए 'क', 'ख', एवं 'ग' क्षेत्रों के विषय में विस्तृत जानकारी दी। श्री. ए. के. शर्मा, संपादक ने ई-ऑफिस में हिन्दी टंकण में आने वाली समस्याओं व कठिनाईयों का समाधान किया ।

कार्यशाला में सभी प्रतिभागियों ने अपनी विशेष रुचि दिखाते हुए व्याख्याताओं से अपनी समस्याओं का निवारण किया साथ ही ऐसी कार्यशाला समय - समय पर नियमित रूप से आयोजित किए जाने की इच्छा व्यक्त की ।



**9.5 क्षेत्रीय कार्यालय, जबलपुर का राजभाषा संबंधी निरीक्षण :-** भारतीय खान ब्यूरो, मुख्यालय द्वारा दिनांक 22/06/2023 को क्षेत्रीय कार्यालय, जबलपुर का राजभाषा कार्यान्वयन संबंधी निरीक्षण किया गया एवं निरीक्षण रिपोर्ट भेजी गई । साथ ही दिनांक 23/06/2023 को भारतीय खान ब्यूरो, मुख्यालय के तत्वावधान में उक्त कार्यालय में एक दिवसीय हिंदी कार्यशाला का आयोजन किया गया ।

## 9.6 भारतीय खान ब्यूरो के रांची क्षेत्रीय कार्यालय का संसदीय राजभाषा समिति की तीसरी उप समिति द्वारा राजभाषा निरीक्षण:-

भारतीय खान ब्यूरो के रांची क्षेत्रीय कार्यालयका दिनांक 13.07.2023 को संसदीय राजभाषा समितिकी तीसरी उपसमिति द्वारा राजभाषानिरीक्षण किया गया। निरीक्षणके दौरान मन्त्रालय की ओर से श्री शकील आलम, आर्थिक सलाकार, श्रीमती वंदना तिकी, सहायक निदेशक के साथ क्षेत्रीय खाननियंत्रक श्री सलील संदीप कुजूर एवं उपखाननियंत्रक श्री बी पी कैरकता एवं हिंदी अधिकारी श्री इंद्रजीतसिंह तथा भारतशर्मा, आशुलिपिक ने भाग लिया। मुख्यालय की ओर से डॉ योगेशजी काले खाननियंत्रक एवं राजभाषा अधिकारी ने प्रतिभाग किया। निरीक्षण संतोषजनक पाया गया। समितिके समक्ष प्रश्नावलीकी प्रस्तुति की गयी जोकि संतोषजनक पाई गयी। समितिद्वारा रांची क्षेत्रीयकार्यालयद्वारा हिंदी के प्रगामी प्रयोगकी दिशामें किये गए प्रयासों की सराहना की तथा उसको और अधिक बेहतर करने की सलाह दी। इसके अतिरिक्त रांची क्षेत्रीय कार्यालय द्वारा एक पुस्तक प्रदर्शनी भी लगाई गयी। संसदीय राजभाषा समितिद्वारा आश्वासन की प्रति प्राप्त हुई जिसे रांची क्षेत्रीय कार्यालय को अनुवर्ती कार्यवाही हेतु प्रेषित किया गया।

## 9.7 खान मंत्रालय द्वारा भारतीय खान ब्यूरो मुख्यालय का राजभाषा निरीक्षण

खान मंत्रालयद्वारा दिनांक 10/07/2023 को भारतीय खान ब्यूरो मुख्यालय का राजभाषा निरीक्षण किया गया। इस कार्यालय को मंत्रालय से उक्त निरीक्षण की रिपोर्ट प्राप्त हो गई है जिस पर अनुवर्ती कार्यवाई की जा रही है ।

**9.8 जबलपुर कार्यालयमें हिन्दी कार्यशाला का आयोजन :** दिनांक 23.08.2023 को जबलपुर कार्यालयमें एक अर्द्धदिवसीय हिन्दी कार्यशालाका आयोजन किया गया, जिसका कुशल संचालन श्री अभिषेक गौतम -सहायक खानी अभियंता तथा श्री राजेंद्रकुमार गुप्ताआशुलिपिक- ने किया। कार्यशालामें )i) श्री सुदीप रंजन मजूमदार -वरिष्ठ खनन भूविज्ञानीने अपशिष्ट खनिजका संग्रहण, उपयोग एवं उसके मासिक व वार्षिक विवरणीमें इंद्राज करने और )ii) श्रीमति अंजलि त्रिवेदी -उच्च श्रेणी लिपिकने सामान्य वित्तनियमावली )GFR) पेंशनसंबंधी औपचारिकता विषयपर अपना वक्तव्य /उद्बोधन दिया जिससे सभी कार्मिक लाभान्वित हुए और उनके तकनीकी व प्रशासनिक ज्ञानमें अभिवृद्धि हुई।





**जबलपुर कार्यालयमें हिन्दी कार्यशाला का आयोजन (23.08.2023)**

9.9 Goa-दिनांक 14 और 15 सितंबर, 2023 को पुणे में माननीय गृहमंत्री की अध्यक्षता में आयोजित होने वाले हिंदी दिवस एवं तृतीय अखिल भारतीय राजभाषा सम्मलेन में प्रतिभागिता करने संबंधी संयुक्त सचिव, भारत सरकार राजभाषा विभाग से प्राप्त अर्धसरकारी पत्र के उत्तर में कार्यालय के दो कर्मिकों श्री आर. सी. महतो, कनिष्ठ अनुवाद अधिकारी तथा श्री संदीप धाकड़, आशुलिपिक को उक्त आयोजन में मडगांव नराकास और कार्यालय की ओर से प्रतिभागिता हेतु नामित किया गया है।

9.10 भारतीय खान ब्यूरो (जबलपुर), में दिनांक 18/09/2023 से दिनांक 03/10/2023 तक हिंदी पखवाड़ा का आयोजन किया गया। आयोजन के दौरान निबंध, नोट लेखन, अनुवाद, कविता पाठ जैसी विभिन्न प्रतियोगिताएं आयोजित की गईं। दिनांक 3.10.2023 को गृह पत्रिका मेकलसुता का विमोचन किया गया। मुख्य अतिथि के रूप में श्री महेश कुमार, उप मुख्य वित्त सलाहकार (भारतीय रेलवे लेखा सेवा अधिकारी) एवं उप मुख्य राजभाषा अधिकारी पश्चिम मध्य रेलवे जबलपुर तथा विशिष्ट अतिथि के रूप में श्री राज रंजन श्रीवास्तव, सचिव, नराकास-जबलपुर, ने कार्यक्रम की शोभा बढ़ाई। अतिथियों ने जबलपुर कार्यालय के हिन्दी प्रेम की तथा कार्यक्रम के श्रेष्ठ आयोजन की सराहना की। हिंदी पखवाड़े के दौरान आयोजित की गई विभिन्न हिंदी विषयक प्रतियोगिताओं में विजयी प्रतिभागियों को पुरस्कार वितरित किए गए।

9.11 विभागीय राजभाषा कार्यान्वयन समिति, भारतीय खान ब्यूरो (मुख्यालय), नागपुर की दिनांक 07/07/2023 को 126 वीं बैठक का आयोजन :- विभागीय राजभाषा कार्यान्वयन समिति, भारतीय खान ब्यूरो (मुख्यालय), नागपुर की 126 वीं बैठक श्री पी. एन. शर्मा, मुख्य खान नियंत्रक (प्रभारी) की अध्यक्षता में दिनांक 07/07/2023 को अपराह्न 4.00 बजे महानियंत्रक महोदय के सभाकक्ष में आयोजित की गई। अध्यक्ष महोदय एवं अन्य सदस्यों के स्वागत के पश्चात अध्यक्ष महोदय की अनुमति से डॉ. वाय. जी. काले, खान नियंत्रक (टी.एम.पी.) एवं राजभाषा अधिकारी द्वारा बैठक की कार्यवाही प्रारंभ की गई। सर्वप्रथम राजभाषा अधिकारी महोदय द्वारा अप्रैल - जून, 2023 के दौरान हिंदी संबंधी किए गए कार्यों



का संक्षिप्त ब्यौरा प्रस्तुत किया गया। तत्पश्चात् कार्य सूची अनुसार बैठक में पिछली बैठक (125वीं) के कार्यवृत्त पर की गई अनुवर्ती कार्रवाई एवं कार्यवृत्त की पुष्टि की गई। इसके पश्चात् जनवरी - मार्च, 2023 अवधि की मुख्यालय एवं अधीनस्थ कार्यालयों की तिमाही रिपोर्ट की समीक्षा की गई।

साथ ही बैठक में, हिंदी पत्राचार, भारतीय खान ब्यूरो कि 75 वीं स्थापना दिवस पर हिंदी पत्रिका के विशेषांक का प्रकाशन, मुख्यालय के अनुभाग ध्रुवभाग को नियम 8(4) के अंतर्गत विनिर्दिष्ट करना, ई - ऑफिस में उपलब्ध हिंदी टिप्पणियों की गणना एवं अखिल भारतीय राजभाषा तकनीकी सेमिनार का आयोजन आदि विषयों पर भी चर्चा की गई। अंत में अध्यक्ष महोदय एवं सभी सदस्यों का आभार श्री अभिनय कुमार शर्मा, संपादक द्वारा व्यक्त किया गया।



विभागीय राजभाषा कार्यान्वयन समिति, भारतीय खान ब्यूरो (मुख्यालय), नागपुर की 126 वीं बैठक (07/07/2023)

**9.12 भारतीय खान ब्यूरो मुख्यालय में अर्धदिवसीय हिंदी कार्यशाला का आयोजन :-** दिनांक 26.09.2023 को भारतीय खान ब्यूरो मुख्यालय में सभी आधिकारियों एवम कर्मचारियों हेतु अर्ध दिवसीय हिंदी कार्यशाला का आयोजन किया गया। इस कार्यशाला में कुल 45 कर्मिकों ने भाग लिया।

**9.13 हिंदी पखवाड़ा :** राजभाषा विभाग के निदेशानुसार एवं महानियंत्रक (प्रभारी) भारतीय खान ब्यूरो के अनुमोदन से भारतीय खान ब्यूरो (मुख्यालय), नागपुर में दिनांक 14/09/2023 से दिनांक 29/09/2023 तक हिंदी पखवाड़ा का आयोजन किया गया। राजभाषा विभाग, गृह मंत्रालय, नई दिल्ली के निदेशानुसार हिंदी दिवस का शुभारंभ 14 सितंबर, 2023 को पुणे, महाराष्ट्र में केंद्रीकृत रूप से किया गया। हिंदी पखवाड़ा का समापन दिनांक 11 अक्टूबर, 2023 को कार्यालय में किया गया। हिंदी पखवाड़ा - 2023 के दौरान दिनांक

18/09/2023 से 29/09/2023 तक कार्यालय में विभिन्न प्रतियोगिताएं एवं कार्यक्रम आयोजित किए गए।

दिनांक 11/10/2023 को श्री पी एन शर्मा, मुख्य खान नियंत्रक (प्रभारी) की अध्यक्षता में हिंदी पखवाड़ा - 2023 का समापन एवं पुरस्कार वितरण समारोह आयोजित किया गया। इस अवसर पर श्री पंकज कुलश्रेष्ठ, मुख्य खान नियंत्रक (प्रभारी) विशिष्ट अतिथि के रूप में उपस्थित थे। साथ ही डॉ. योगेश जी. काले, खान नियंत्रक (मध्य) एवं राजभाषा अधिकारी तथा अन्य वरिष्ठ अधिकारी और कार्मिक भी इस अवसर पर उपस्थित थे। कार्यक्रम के आरम्भ में माननीय गृह एवं सहकारिता मंत्री श्री अमित शाहजी और माननीय संसदीय कार्य, कोयला एवं खानमंत्री श्री प्रल्हाद जोशी जी का सन्देश मंचासीन अधिकारियों द्वारा वाचन किया गया। सभा को संबोधित करते हुए अध्यक्ष श्री पी. एन. शर्मा ने राजभाषा हिंदी के अधिकाधिक प्रयोग पर बल दिया। उन्होंने विभिन्न प्रतियोगिताओं के पुरस्कृत कार्मिकों को बधाई दी। इसके पूर्व सभा को संबोधित करते हुए विशिष्ट अतिथि श्री पंकज कुलश्रेष्ठ ने भी पुरस्कृत प्रतिभागियों को बधाई दी तथा साथ ही, हिंदी पखवाड़ा को सफल बनाने के लिए हिंदी अनुभाग की सराहना की। उन्होंने आगे कहा कि यद्यपि हम हिंदी को बढ़ाने में पूरी तरह सफल नहीं हुए हैं, परन्तु उसके लिए हमें निरंतर प्रयत्नशील रहना चाहिए।

डॉ. योगेशजीकाले ., खान नियंत्रक एवं राजभाषा अधिकारी ने अपने सम्बोधन में (मध्य) महत्ता बतायी। उन्होंने आगे कहा कि विदेशों में भी हिंदी संपर्क भाषा के रूप में हिंदी की काफी प्रचलित है तथा विश्व के अनेक विश्वविद्यालयों में हिंदी पढ़ाई जाती है। यह गर्व का विषय है कि वैश्विक स्तर पर हिंदी का तेजी से विकास हो रहा है। इसके पूर्व श्री अभिनय कुमार शर्मा, संपादक ने भारतीय खान ब्यूरो मुख्यालय में गत वर्ष के दौरान हिंदी सम्बन्धी कार्यों की उपलब्धियां सभा के समक्ष पढ़कर सुनायी।

हिंदी पखवाड़े के दौरान आयोजित की गई विभिन्न हिंदी विषयक प्रतियोगिताओं में विजयी प्रतिभागियों को अध्यक्ष, विशिष्ट अतिथि एवं राजभाषा अधिकारी द्वारा पुरस्कार वितरित किए गए विभिन्न हिंदी विषयक प्रतियोगिताओं में भारतीय खान ब्यूरो के कार्मिकों ने बढ़चढ़कर हिस्सा लिया।

हिंदी पखवाड़ा के पुरस्कार वितरण एवं समापन समारोह का संचालन श्री विनय कुमार सक्सेना, वरिष्ठ पुस्तकालय एवं सूचना सहायक ने किया तथा धन्यवाद ज्ञापन श्री किशोर डीपारधी ., कनिष्ठ अनुवाद अधिकारी द्वारा दिया गया। उक्त समारोह के सफलतापूर्वक आयोजन में हिंदी अनुभाग के श्रीमती मिताली चटर्जी, सहायक निदेशक (राजभाषा), श्री असीम कुमार, कनिष्ठ अनुवाद अधिकारी, श्रीमती वीनू खत्री, कनिष्ठ अनुवाद अधिकारी, श्री

सुबोध कुमार, आशुलिपिक, श्री प्रदीप कुमार सिन्हा, उच्च श्रेणी लिपिक, श्री राहुल कौशिक, उच्च श्रेणी लिपिक तथा श्री एममोरे .एन., प्रेसमैन का पूर्ण योगदान रहा ।



भारतीय खान ब्यूरो (मुख्यालय), नागपुर में दिनांक 14/09/2023 से दिनांक 29/09/2023 तक हिंदी पखवाड़ा का आयोजन

**9.14 संसदीय राजभाषा समिति की तीसरी उप समिति द्वारा क्षेत्रीय कार्यालय का राजभाषा निरीक्षण:-** संसदीय राजभाषा समिति की तीसरी उप समिति द्वारा क्षेत्रीय कार्यालय, रांची का दिनांक 03/10/2023 को राजभाषा निरीक्षण हेतु निरीक्षण प्रश्नावली के मुख्यालय से संबंधित जानकारी के 03 पृष्ठ तैयार किए गए एवं उक्त निरीक्षण से संबंधित अन्य आवश्यक कार्य किए गए। भारतीय खान ब्यूरो (मुख्यालय), नागपुर से उक्त निरीक्षण के दौरान बी. एल. गुर्जर, खान नियंत्रक (टी.एम.पी.) उपस्थित थे।

**9.15 विभागीय राजभाषा कार्यान्वयन समिति, भारतीय खान ब्यूरो (मुख्यालय), नागपुर की 127 वीं बैठक :-**

विभागीय राजभाषा कार्यान्वयन समिति, भारतीय खान ब्यूरो (मुख्यालय), नागपुर की 127 वीं बैठक श्री पीयूषनारायण शर्मा, मुख्य खान नियंत्रक (प्रभारी) की अध्यक्षता में दिनांक 16/10/2023 को अपराह्न 4.00 बजे महानियंत्रक महोदय के सभाकक्ष में आयोजित की गई । डॉ. योगेश जी. काले, खान नियंत्रक (मध्य) एवं राजभाषा अधिकारी द्वारा बैठक की कार्यवाही प्रारंभ की गई । कार्य सूची के अनुसार बैठक में पिछली बैठक (126वीं) के कार्यवृत्त पर की गई अनुवर्ती कार्यवाई एवं कार्यवृत्त की पुष्टि की गई । इसके पश्चात राजभाषा अधिकारी द्वारा पिछली तिमाही के दौरान राजभाषा सम्बन्धी कार्यों की विवरणी प्रस्तुत की गई। तत्पश्चात अप्रैल - जून, 2023 अवधि की मुख्यालय एवं अधीनस्थ कार्यालयों की तिमाही रिपोर्ट की समीक्षा की गई ।

बैठक में भारतीय खान ब्यूरो की 75 वीं स्थापना दिवस पर हिंदी पत्रिका का विशेषांक का प्रकाशन एवं विमोचन, हिंदी पत्राचार, चेन्नई क्षेत्रीय कार्यालय को प्रशस्ति पत्र दिया जाना, गोवा में अखिल भारतीय राजभाषा तकनीकी सेमिनार का आयोजन, विराकस बैठक के

अतिरिक्त अन्य शीर्षस्थ बैठकों का ब्यौरा एवं ई-ऑफिस में टिप्पणी की गणना इत्यादि विषयों पर विस्तृत चर्चा की गई ।



विभागीय राजभाषा कार्यान्वयन समिति, भारतीय खान ब्यूरो (मुख्यालय), की 127 वीं बैठक

**9.16 भारतीय खान ब्यूरो, गोवा को 2022-23 का द्वितीय राजभाषा पुरस्कार :** न्यूक्लियर पावर कोर्पोरेशन लिमिटेड, मुंबई में दिनांक 23.11.2023 को आयोजित पच्छिम तथा मध्य क्षेत्रों के क्षेत्रीय राजभाषा सम्मेलन के दौरान केंद्रीय कार्यालयों की श्रेणी में 11 से 50 कर्मिकों वाले कार्यालय वर्ग में भारतीय खान ब्यूरो, गोवा को द्वितीय राजभाषा पुरस्कार स्वरूप शील्ड और प्रमाणपत्र प्रदान किये गये. महाराष्ट्र राज्य के माननीय राज्यपाल श्री. रमेश वैस के करकमलों से माननीय गृह राज्यमंत्री श्री. अजय कुमार मिश्रा के गरिमामय अपस्थिति में श्री. नरेश कुमार कटारिया, उप खान नियंत्रक एवं कार्यालय प्रभारी के ओर से राजभाषा शील्ड श्री. भारत अनंत जाम्बावलीकर, सहायक भंडार अधिकारी ने ग्रहण किया तथा मान पत्र श्री. आर. सी. महतो, कनिष्ठ अनुवाद अधिकारी ने ग्रहण किया.



केंद्रीय कार्यालयों की श्रेणी में भा. खा. ब्यू. गोवा को द्वितीय राजभाषा पुरस्कार स्वरूप शील्ड और प्रमाणपत्र माननीय राज्यपाल श्री. रमेश वैस के करकमलों से माननीय गृह राज्यमंत्री श्री. अजय कुमार मिश्रा के गरिमामय अपस्थिति में प्रदान किये गये.



**9.17 गगनांचल पत्रिका में भारतीय खान ब्यूरो मुख्यालय से लेख प्रकाशित :-** नई दिल्ली से प्रकाशित होने वाली गगनांचल पत्रिका में भारतीय खान ब्यूरो मुख्यालय से डॉ. योगेश जी. काले, (खान नियंत्रक मध्य एवं राजभाषा अधिकारी) तथा श्री अभिनय कुमार शर्मा, संपादक द्वारा रचित लेख 'विश्व भाषा के रूप में प्रतिष्ठित होती हिंदी' प्रकाशित हुआ है।

**9.18 नगर राजभाषा कार्यान्वयन समिति (नराकास), नागपुर (कार्यालय-2) द्वारा हिंदी कार्यशाला का आयोजन:-** दिनांक 07/11/2023 को नराकास, नागपुर (कार्यालय-2) द्वारा एकदिवसीय हिंदी कार्यशाला का आयोजन किया गया जिसमें भारतीय खान ब्यूरो (मु.) की ओर से श्री प्रदीप कुमार सिंहा, उच्च श्रेणी लिपिक व श्री सुबोध कुमार, आशुलिपिक ने भाग लिया ।

**9.19: भारतीय खान ब्यूरो मुख्यालय की हिंदी गृह पत्रिका 'खान भारती':** सचिव (खान), श्री वी.एल. कांता राव, आईएस ने 20.10.2023 को आईबीएम मुख्यालय में आईबीएम की हिंदी पत्रिका "खान भारती 2023" के नवीनतम अंक का विमोचन किया। भारतीय खान ब्यूरो मुख्यालय की हिंदी गृह पत्रिका 'खान भारती' के विशेषांक का वर्ष 2023 के अंक - 09 की ई-पत्रिका को राजभाषा विभाग की वेबसाइट पर अपलोड किया गया



**9.20 : खान मंत्रालय की हिंदी सलाहकार समिति की बैठक का आयोजन:-** माननीय संसदीय कार्य, कोयला तथा खान मंत्री श्री प्रल्हाद जोशी की अध्यक्षता में दिनांक 13.12.2023 को पार्लियामेंट एनेक्सी, कमिटी रूम 'बी', नई दिल्ली में खान मंत्रालय की हिंदी सलाहकार समिति की बैठक का आयोजन किया गया। उक्त बैठक में भारतीय खान ब्यूरो, मुख्यालय से श्री संजय लोहिया, महानियंत्रक (प्रभारी) एवं डॉ. योगेश जी. काले, खान नियंत्रक (मध्य) एवं राजभाषा अधिकारी ने भाग लिया।

**9.21 भारतीय खान ब्यूरो, मुख्यालय, नागपुर में हिंदी कार्यशाला का आयोजन :-** भारत सरकार की राजभाषा नीति के कार्यान्वयन एवं हिंदी के प्रचार - प्रसार व प्रगति के उद्देश्य को ध्यान में रखते हुए भारतीय खान ब्यूरो, मुख्यालय, नागपुर में दिनांक 19 दिसंबर,

2023 को अधिकारियों एवं कर्मचारियों हेतु एक दिवसीय हिंदी कार्यशाला का आयोजन किया गया। इस हिंदी कार्यशाला में कुल 22 अधिकारी एवं कर्मचारियों ने उत्साहपूर्वक भाग लिया।

## 9.22 विभागीय राजभाषा कार्यान्वयन समिति, भारतीय खान ब्यूरो (मुख्यालय), नागपुर की 128 वीं बैठक का आयोजन

विभागीय राजभाषा कार्यान्वयन समिति, भारतीय खान ब्यूरो (मुख्यालय), नागपुर की 128 वीं बैठक श्री पीयूष नारायण शर्मा, मुख्य खान नियंत्रक की अध्यक्षता में दिनांक 08/01/2024 को अपराह्न 4.00 बजे महानियंत्रक महोदय के सभाकक्ष में आयोजित की गई। अध्यक्ष महोदय एवं अन्य सदस्यों के स्वागत के पश्चात अध्यक्ष महोदय की अनुमति से डॉ. योगेश जी. काले, खान नियंत्रक (मध्य) एवं राजभाषा अधिकारी द्वारा बैठक की कार्यवाही प्रारंभ की गई। कार्य सूची के अनुसार बैठक में पिछली बैठक (127वीं) के कार्यवृत्त पर की गई अनुवर्ती कार्यवाई एवं कार्यवृत्त की पुष्टि की गई। इसके पश्चात राजभाषा अधिकारी द्वारा पिछली तिमाही के दौरान राजभाषा सम्बन्धी कार्यों की विवरणी प्रस्तुत की गई। तत्पश्चात जुलाई - सितम्बर, 2023 अवधि की मुख्यालय एवं अधीनस्थ कार्यालयों की तिमाही रिपोर्ट की समीक्षा की गई।

बैठक में 2024-25 में भारतीय खान ब्यूरो मुख्यालय में अखिल भारतीय हिंदी कार्यशाला का आयोजन, 'गगनांचल' ईपत्रिका का अवलोकन-, ईऑफिस में मसौदा प्रस्तुत करते समय हिंदी - भाषा के चयन का विकल्प तथा 'खानभारती-' पत्रिका को राजभाषा विभाग के ईपुस्तकालय - में अपलोड किया जाना इत्यादि विषयों पर विस्तृत चर्चा की गई।



विभागीय राजभाषा कार्यान्वयन समिति, भारतीय खान ब्यूरो (मुख्यालय), नागपुर की 128 वीं बैठक (08.01.2024)

9.23 रायपुर क्षेत्रीय कार्यालय का राजभाषा कार्यान्वयन के परिप्रेक्ष्य में निरीक्षण :- भारतीय खान ब्यूरो द्वारा रायपुर क्षेत्रीय कार्यालय का दिनांक 30/01/2024 को राजभाषा कार्यान्वयन की दृष्टि से निरीक्षण किया गया। इसी तरह दिनांक 31/01/2024 को उक्त कार्यालय में एक दिवसीय हिंदी कार्यशाला का भी आयोजन किया गया।

**9.24 संसदीय राजभाषा समिति की तीसरी उप समिति द्वारा क्षेत्रीय कार्यालय, गोवा का राजभाषा निरीक्षण:-** संसदीय राजभाषा समिति की तीसरी उप समिति द्वारा क्षेत्रीय कार्यालय, गोवा का दिनांक 16/02/2024 को राजभाषा निरीक्षण किया गया। इस हेतु मुख्यालय से संबंधित निरीक्षण प्रश्नावली के 03 पृष्ठ तैयार किए गए एवं उक्त निरीक्षण से संबंधित अन्य आवश्यक कार्य किए गए। उक्त निरीक्षण के दौरान भारतीय खान ब्यूरो (मुख्यालय), नागपुर के डॉ. योगेश जी.काले, खान नियंत्रक (मध्य) एवं राजभाषा अधिकारी मंत्रालय की ओर से उपस्थित थे।

**9.25 भारतीय खान ब्यूरो के देहरादून क्षेत्रीय कार्यालय को राजभाषा पुरस्कार :-** नराकास कार्यालय 1-जो कि देहरादून में स्थित कुल 77 केन्द्र सरकार के कार्यालयों में राजभाषा हिंदी के कार्यों की प्रगति की निगरानी रखता है। नराकास कार्यालय-2 जो कि केन्द्र सरकार के उपक्रम, बैंको व अन्य कार्यालयों में राजभाषा हिंदी के कार्यों की प्रगति की निगरानी रखता है। नराकास कार्यालय-1 सदस्य कार्यालयों के वार्षिक आंकड़ों का मूल्यांकन कर सर्वश्रेष्ठ हिंदी कार्यों के लिए शील्ड व प्रमाण पत्र प्रदान करता है एवं श्रेष्ठ कार्यों के लिए प्रोत्साहन पुरस्कार स्वरूप प्रशस्ति पत्र प्रदान करता है।

भारतीय खान ब्यूरो क्षेत्रीय कार्यालय को वर्ष (देहरादून)2021-22 एवं 2022-23 में हिंदी में श्रेष्ठ कार्य निष्पादन के लिए देहरादून में स्थित 77 केंद्रीय कार्यालयों में चौथे स्थान पर आने के लिए उक्त दोनों वर्षों के दौरान प्रोत्साहन पुरस्कार स्वरूप प्रशस्ति पत्र प्रदान किए गए।



**9.26 भारतीय खान ब्यूरो, मुख्यालय, नागपुर में दिनांक : 07/03/2024 को एक दिवसीय हिंदी कार्यशाला का आयोजन :-** भारत सरकार की राजभाषा नीति के कार्यान्वयन एवं हिंदी के प्रचार - प्रसार व प्रगति के उद्देश्य को ध्यान में रखते हुए भारतीय खान ब्यूरो,

मुख्यालय, नागपुर में दिनांक : 07 मार्च, 2024 को अधिकारियों एवं कर्मचारियों हेतु एक दिवसीय हिंदी कार्यशाला का आयोजन किया गया। इस हिंदी कार्यशाला में कुल 29 अधिकारी एवं कर्मचारियों ने उत्साहपूर्वक भाग लिया। खान नियंत्रक एवं राजभाषा अधिकारी डॉ. योगेश जी. काले ने हिंदी कार्यशाला की प्रस्तावना रखते हुए प्रतिभागियों को कार्यशाला के समस्त सत्रों की संक्षिप्त जानकारी दी। इसमें भारतीय खान ब्यूरो के श्री बी. एल. गुर्जर, खान नियंत्रक (टी. एम. पी.) ने “ई-ऑफिस में हिंदी का प्रयोग” विषयों पर अपने व्याख्यान दिए, श्री राजीव कुमार, सदस्य सचिव एवं मुख्य प्रबंधक (राजभाषा) द्वारा “राजभाषा हिंदी एवं कार्यालयीन कामकाज”, श्री असीम कुमार, कनिष्ठ अनुवाद अधिकारी ने “हिन्दी तिमाही रिपोर्ट (भाग-1 एवं भाग-2)” पर व्याख्यान दिए।



भारतीय खान ब्यूरो, मुख्यालय, नागपुर में हिंदी कार्यशाला (दिनांक : 07 मार्च, 2024),

**9.27 भारतीय खान ब्यूरो, जबलपुर, में दिनांक 21.03.2024 को एक दिवसीय हिंदी कार्यशाला का आयोजन :-** आईबीएम के राजभाषा अधिकारी डॉ. योगेश गुलाबराव काले की अध्यक्षता एवं नराकास सचिव श्री राज रंजन श्रीवास्तव के मुख्य आतिथ्य में दिनांक 21.03.2024 को जबलपुर कार्यालय में साल 2023-24 की छठवीं हिन्दी कार्यशाला आयोजित की गई। कार्यशाला में लमडपोर्टल जानकारी एवं राजभाषा हिन्दी विषयों पर व्याख्यान दिये गये। राजभाषा हिन्दी के प्रगामी प्रयोग तथा इसके प्रचार-प्रसार को दैनन्दिन कार्यों में राजभाषा को बढ़ावा देते हुए अपने संवैधानिक दायित्वों का निर्वहन कैसे करें?- विषय पर चर्चा के साथ साथसंसदीय समिति के निरीक्षण के दौरान अपने कार्यालय में किए जाने वाले राजभाषा संबंधी कार्यों का किस प्रकार प्रदर्शन किया जाय- इस पर मार्गदर्शन दिया गया। श्री काले साहब ने नराकास के साथ साथ गृह मंत्रालय के राजभाषा विभाग से पुरस्कार प्राप्त करने संबंधी जानकारी प्रदान की जिससे इस कार्यालय को गृह मंत्रालय की वेबसाइट पर पंजीयन कर पुरस्कार प्राप्त करने का पथ प्रशस्त हुआ।





भा. खा.ब्यूरो, जबलपुर, में हिंदी कार्यशाला का आयोजन (21.03.2024)

9.28 क्षेत्रीय कार्यालय भुवनेश्वर को क्षेत्रीय राजभाषा पुरस्कार :गृह मंत्रालय भारत सरकार के राजभाषा विभाग द्वारा वर्ष 2022-23 हेतु पूर्व और पूर्वोत्तर क्षेत्र संवर्ग में कार्यालय में राजभाषा के उत्कृष्ट कार्यान्वयन हेतु क्षेत्रीय राजभाषा पुरस्कारदिनांक 08 मार्च 2024 को सिलिगुड़ी, दार्जिलिंग पश्चिम बंगाल में प्रदान किये गये। इस कार्यक्रम में भारतीय खान ब्यूरो के क्षेत्रीय कार्यालय भुवनेश्वर को दूसरा पुरस्कार प्राप्त हुआ है। यह पुरस्कार माननीय गृह राज्यमंत्री श्री निशिथ प्रमाणिक द्वारा प्रदान किये गये। पुरस्कार प्राप्त करते हुए श्री अरुण कुमार RCOM तथा प्रमाणपत्र प्राप्त करते हुए श्री राजेश दाश, DCOM.



क्षेत्रीय कार्यालय भुवनेश्वर को राजभाषा के उत्कृष्ट कार्यान्वयन हेतु क्षेत्रीय राजभाषा पुरस्कार (दिनांक 08 मार्च 2024)

### Note on Special Campaign 3.0/ Swachchtha Pakhwada and other related activities undertaken during 2023

As per the directions of Ministry of Mines, the following activities related special campaign 3.0 have been observed in IBM HQ and all its field offices and at selected mine sites during September to November 2023:

- Swachchtha Hi Seva from 15.09.2023 to 01.10.2023
- Ek Tareeq – Ek Ghanta theme activity on 01.10.2023
- Mass Plantation on 02.10.2023
- UNESCO Geo-Heritage Day on 06.10.2023
- Special campaign 3.0 activities from 02.10.2023 to 31.10.2023
- Swachchtha Pakhwada from 16.11.2023 to 30.11.2023

#### IBM Activities under Swachchtha Hi Sewa campaign (20.09.2023 to 01.10.2023)

Indian Bureau of Mines, Headquarters at Nagpur and its various field offices located at various parts of the country have observed Swachchtha Hi Seva campaign from 20.09.2023 to 01.10.2023 and culminated the event with Special Campaign 3.0 activities on 02.10.2023. During the Swachchtha Hi Seva campaign, IBM organized various activities like cleanliness drives, bicycle rallies, Sunday shramdaan, awareness programmes (painting/ quiz) on ban on single use plastic, plastic waste collection etc. as per the following activity planner. Pledge on ban on Single Use Plastic has also been performed by all IBM employees on 01.10.2023.

Date & Time	Event/ Activity
20.09.2023 (Wednesday)	Pledge on Swachchtha Hi Sewa (To be performed by all employees online) and Cleanliness drive in office premises (HQ and field offices)
21.09.2023 (Thursday)	Cleanliness drive in office premises (HQ and field offices)
22.09.2023 (Friday)	Cleanliness drive in office premises (HQ and field offices)
23.09.2023 (Saturday)	Bicycle rally to create awareness on single use plastic
24.09.2023 (Sunday)	Swachchta Sunday Shramdaan activity by employees

25.09.2023 (Monday)	Painting/ Quiz programme to IBM employees on Swachhta awareness and SUP ban
26.09.2023 (Tuesday)	Plastic waste collection in and around IBM HQ premises
27.09.2023 (Wednesday)	Hara Geela and Sukha Neela Programme at IBM residential areas/ nearby school
28.09.2023 (Thursday)	Cleanliness drive in office premises (HQ and field offices)
29.09.2023 (Friday)	Cleanliness drive in office premises (HQ and field offices)
30.09.2023 (Saturday)	Cleanliness drive in office premises (HQ and field offices)
01.10.2023 (Sunday)	Pledge on ban on Single Use Plastic (To be performed by all employees online)
02.10.2023 (Monday)	Culmination of Swachhta Hi Sewa programme with Special Campaign 3.0

## GLIMPSES OF SWACHCHTHA HI SEVA ACTIVITIES



**Hara Geela Neela Sukha waste collection Programm at IBM MMPL Office premises**



**BICYCLE RALLY BY IBM HQ EMPLOYEES**



## SWACHHATA HI SEVA

Cleanliness drive at Goa office badminton court



BEFORE



AFTER




## IBM is proposed to organize Ek Tareeq – Ek Ghanta theme activity at the following four places (01.10.2023)

Indian Bureau of Mines has created four events on Swachhtahiseva.com portal for citizens' live display. The Main objective of the programme is one hour mass cleanliness drive. Since Mines locations are in rural area, nearby village panchayat heads, prominent persons of the village, Senior officers of Mine organization and IBM etc. are involved in these programmes. Pre event publicity has been given widely both by Mine organization/ IBM from 28.09.2023 to 30.09.2023 in social media handles, press/ media, their own websites, local radio/ TV etc. Hoardings/ other display arrangements have also been made in crowded areas. photographs and video clips have been uploaded on the designated portal. Mine managements have made ample arrangements for cleanliness drive including brooms, garbage collecting pans, facility for garbage transportation to designated place, dustbins, hand gloves, masks, drinking water facility etc. during the programme. The event is successful.

ZONE	REGION	STATE	LOCATION	EVENT DETAILS
Central Zone	Nagpur Region	Maharashtra	Manganese Mines of MOIL	Inauguration of innovative idea clubbing with one-hour shramdaan for cleanliness
East Zone	Ranchi Region	Jharkhand	Amtipani Bauxite mine, m/s Hindalco industries limited	-do-
South Zone	Bangalore Region	Karnataka	Kammataru iron ore mine of M/s SMIOR	-do-
North Zone	Ajmer Region	Rajasthan	Zawar Mines of M/s HZL	-do-

## GLIMPSES OF Ek Tareeq – Ek Ghanta theme activities

<p><b>Gumgaon Manganese Mines of MOIL, Maharashtra</b></p>  <p>Total 112 people participated and cleaned about 375 Sq m space MOIL officials, IBM officials, Local villagers from Gumgaon and Tighai panchayats local journalists etc. participated</p>	<p><b>Kammataru Iron Ore Mines of SMIORE, Karnataka</b></p>  <p>THE SANDUR MANGANESE &amp; IRON ORES LIMITED UNDER AEGIS OF INDIAN BUREAU OF MINES, SOUTH ZONE, BENGALURU Officials of IBM, SANDUR Employees, Staff, School Children, Panchayat members seen participating in Shramdaan</p> <p>Cleanliness Drive undertaken at GSD Camp, SANDUR Employees Quarters at Dargi</p>
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## Mass Plantation on 02.10.2023

During the Culmination of Swachchtha Hi Seva and Special Campaign 3.0 activities, Indian Bureau of Mines HQ and its field offices have observed a mass plantation drive on 02.10.2023 paying a tribute to Mahatma Gandhi Ji.





## GLIMPSES ON MASS PLANTATION FROM IBM FIELD LOCATIONS

### SPECIAL CAMPAIGN 3.0

#### MMPL, MIDC



#### Jabalpur RO



#### Raipur RO



#### Gandhinagar RO



### SPECIAL CAMPAIGN 3.0

#### RMPL Ajmer



#### Udaipur ZO



#### Bhubaneswar RO



### SPECIAL CAMPAIGN 3.0

#### Guwahati RO



#### ZO, Kolkata



#### ZO, RO, RMPL, Bangalore



### SPECIAL CAMPAIGN 3.0

#### Goa RO



#### Hyderabad RO



### **Special campaign 3.0: (02.10.2023 to 31.10.2023)**

Indian Bureau of Mines has observed the Special campaign 3.0 as per the directions of Ministry of Mines. The campaign started on 02.10.2023 on the birth anniversary of Mahatma Gandhiji and observed during the whole month of October. As per the Ministry's instruction Targets for all IBM offices were identified and nodal officers from each IBM offices were nominated for better management of the activities during the period.

In this special campaign record management of files have been reviewed and all the IBM offices have completed the target of record review and created space by scraping the old/obsolete files.

Many IBM offices have identified the old/obsolete furniture and then e-auctioned through MSTC website which generates Revenue of Rs. 4,43,420/-.

During the Special campaign indoor cleanliness drive and outdoor cleanliness awareness drive were organized in IBM HQ and all field offices of IBM. All offices of IBM have undertaken 57 outdoor campaign activities which include walkathan, bicycle rally, cleanliness drives in nearby localities, lake cleaning, awareness programmes in Govt. schools, supply of Swachchtha kit in schools etc. list of Outdoor activities have been given as **Annexure**.

Some offices have taken innovative ideas like Beautification of office premises, Painting of machinery and equipment, compost pits, volleyball court/badminton court, rainwater harvesting system, Garden development, herbal gardening, maintenance & up keeping.

IBM have Development of 3 compost pit sites one each at Jabalpur regional office, Ajmer regional office and Govt. run school in Ranchi, Developed herbal garden and Badminton court at EZ Kolkata office. Developed Volleyball court at MMPL Nagpur & Bangalore office

During the Special campaign 3.0 mines have been identified for Eco-friendly and tourist attract activities. One each mine from each region have been identified for development of an innovative idea considering development of tourist attraction site, heritage site, eco-friendly activity, activities proposed in PMCP/ Mining plan etc. such as development of garden on back filled area, pisciculture site, development of water pond in mined out pits etc. total 15 mine have been identified for the purpose under the aegis of IBM regional offices. The details of activities carried out are given as an Annexure.



## SPECIAL CAMPAIGN 3.0

### INNOVATIVE IDEAS OF IBM

#### Compost pit at Jabalpur Regional Office IBM



Compost pit at राजकीय अनुसूचित जनजाति आवासीय बालिका मध्य विद्यालय , चोरपाट, जिला गुमला, झारखंड



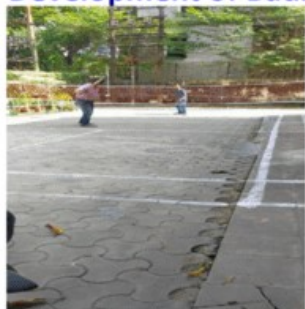
## SPECIAL CAMPAIGN 3.0

### INNOVATIVE IDEAS OF IBM

#### Herbal garden in IBM, East Zone, Kolkata office premises



#### Development of Badminton court at Kolkata office premises



## SPECIAL CAMPAIGN 3.0

### INNOVATIVE IDEAS OF IBM



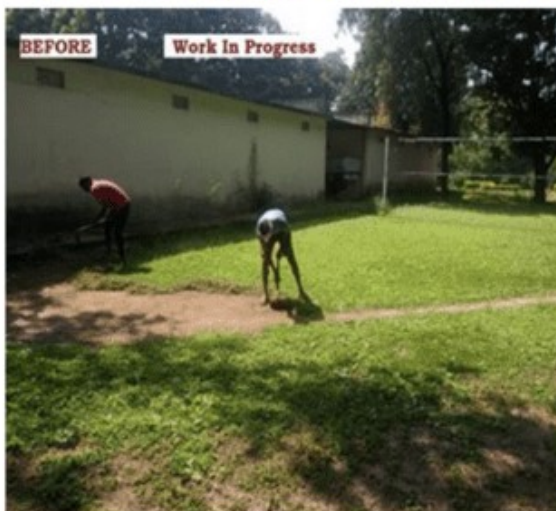
Development of Volleyball court at Bangalore office premises

Compost pit at Ajmer Regional Office, IBM Colony

## SPECIAL CAMPAIGN 3.0

### INNOVATIVE IDEAS OF IBM

Development of Volleyball ground at MMPL&PP IBM Nagpur under Special Campaign 3.0 utilizing the barren land





## SPECIAL CAMPAIGN 3.0

### Glimpses of Scrap Disposal

Scrap identified in TS Section



Scrap identified in TMP Division



## SPECIAL CAMPAIGN 3.0

### OTHER ACTIVITIES



Photographs taken before the cleaning of Pilot Plant Tailing Pond, RMPL, Bangalore



Photographs taken after the cleaning of Pilot Plant Tailing Pond, RMPL, Bangalore

BEFORE

AFTER

**Cleanliness drive at RMPL Pilot Plant Tailing Pond  
Bangalore**



### **FIT INDIA RUN 4.0**

During the campaign period Fit India Run 4.0 has been organized at all 16 locations of IBM in the country during this campaign period.

#### **FIT INDIA RUN 4.0**

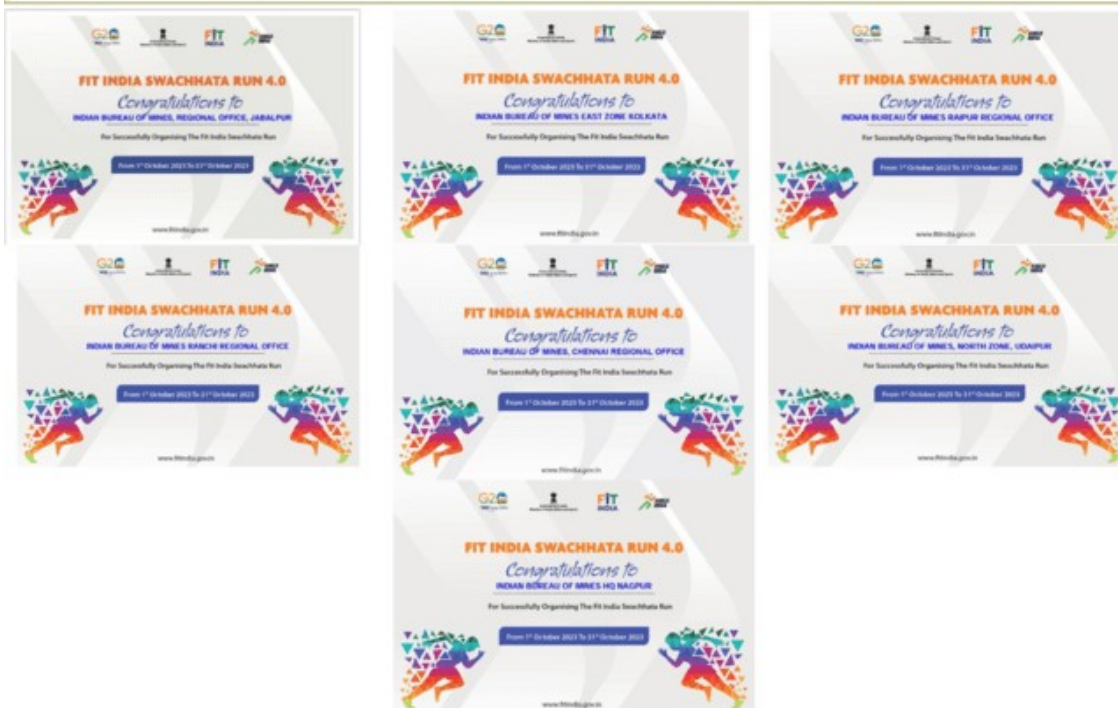
S. No.	Office/ region	walkathon/ run
1	BM HQ Nagpur (All offices located in Indira bhavan civil lines)	12-10-2023
2	MMPL, Hingna, MIDC	16-10-2023
3	North Zone, Udaipur	15-10-2023
4	East Zone, Kolkata	10-10-2023
5	South zone & RO & RMPL, Bangalore	18-10-2023
6	Ajmer RO & RMPL	16-10-2023
7	Bhubaneswar RO	17-10-2023
8	Chennai RO	31-10-2023
9	Dehradun RO	14-10-2023
10	Goa RO	13-10-2023
11	Gandhinagar RO	25-10-2023
12	Guwahati RO	17-10-2023
13	Hyderabad RO	25-10-2023
14	Jabalpur RO	18-10-2023
15	Ranchi RO	12-10-2023
16	Raipur RO	10-10-2023



## GLIMPSES OF FIT INDIA RUN 4.0

### SPECIAL CAMPAIGN 3.0

#### FIT INDIA RUN CERTIFICATES OF IBM



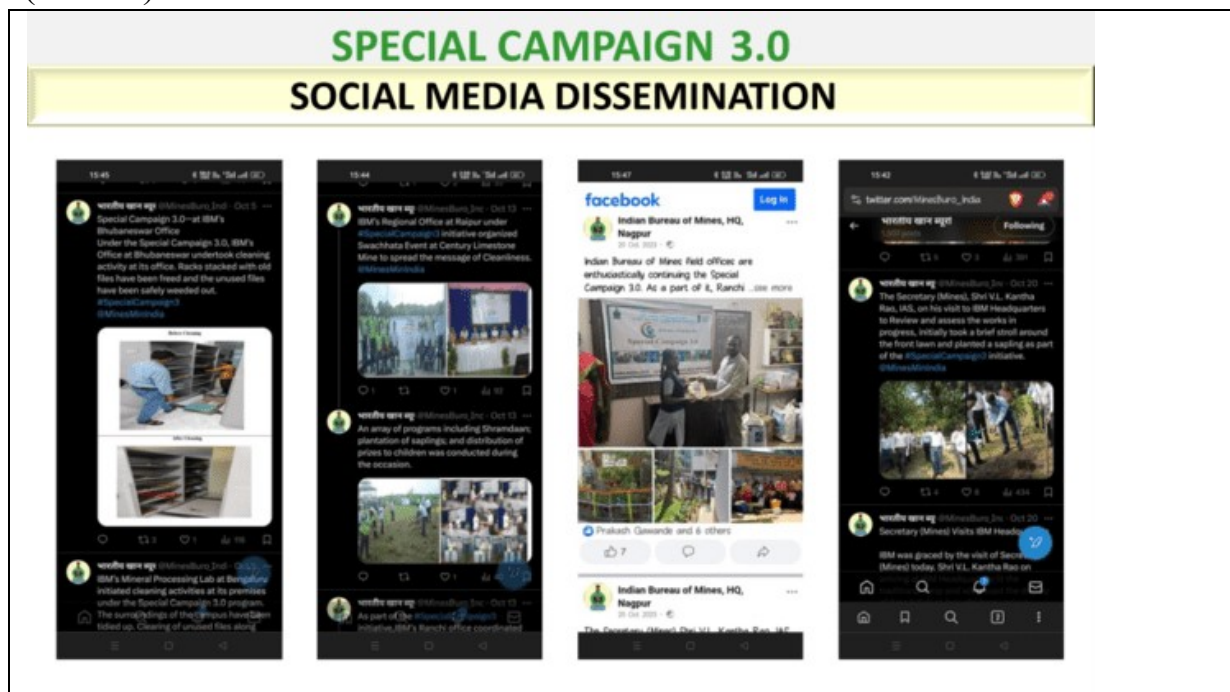
### SPECIAL CAMPAIGN 3.0

#### IBM - FIT INDIA RUN GLIMPSES



## SOCIAL MEDIA DISSEMINATION

During the special Campaign 3.0 for wide publicity of daily activities, photographs and post have been uploaded in social media of IBM. Total No. of posts on IBM Facebook are 94 and total No. of posts on IBM “X” handle (Twitter) are 123.



## Achievements of the Special Campaign 3.0 is given below

Achievements of the Special Campaign 3.0 is given below

SPECIAL CAMPAIGN 3.0

(IBM HQ and Field offices consolidated Achievement report)

As on 31-10-2023

References from MPs		Parliamentary Assurances		IMC References (Cabinet proposals)		State Govt. References	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
--	--	--	--	--	--	--	--

Public Grievances		PMO References		Public Grievance Appeals		Easing of Rules/ Processes	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
-	-	--	--	--	--	--	--

Record Management (Files)							Space Freed (in Sq Ft)
Physical Files					E Files		
Due for Review	Reviewed	To be transferred to NAI	Identified for Weeding	Weeded out	Put up for Review	Closed	
8000	8606	---	2960	2960	54	54	2182

Outdoor campaigns			Revenue Earned (By Scrap Disposal) In Rs.	
To be conducted		Conducted		
30		57	Rs. 4,43,420	



## Note on UNESCO Geo-Heritage Day (06.10.2023)



A review meeting on Swachhata Hi Seva activities has been held under the chairmanship of Secretary (Mines) on 20.09.2023. During the review, Secretary (Mines) has directed IBM to organize a special inauguration programme in coordination with MOIL Manganese mines on 06.10.2023 to commemorate UNESCO Geo-Heritage Day. Gumgaon Manganese Mines of M/s MOIL is proposed to undertake development of aesthetic beauty/recreation spot of reclaimed mine site area (NEERI Plantation) and an innovative initiative to set up a hydro electric pilot power plant in their mine site area. Accordingly, an inauguration programme has been organized at Gumgaon Manganese Mines on 06.10.2023 to start work for said pilot project. In this special program 'Bhumipujan' for Hydro-electric Power Generation pilot Plant with 3.5 KW capacity was organized. Inauguration was done by Shri. P.N. Sharma, CCOM I/c (MDR), IBM. Other IBM officers Dr. V.G.K. Bhagavan Sg.MG& TS and Shri. G. Ram DCOM I/c, Nagpur Region, IBM were also present. IBM & MOIL officials have also planted saplings at the 'Gosai Baba Temple' site where the group of volunteers had done 'Shramdaan' on 1<sup>st</sup> of October 2023 under the theme of Ek Tareekh Ek Ghanta Ek Saath to enhance the aesthetic beauty of the site.

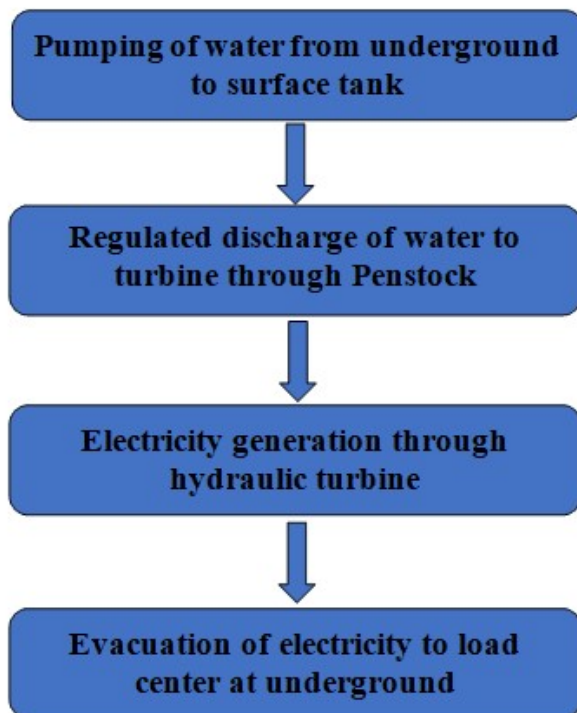
The programme had a coverage in local TV news in Marathi and Hindi versions and disseminated in official social media handles of IBM. TV coverage link is given here: <https://youtu.be/bvbjyi7qNrU?si=CG2ItUN780Nft50A>

### Pilot Project details:

- At Gumgaon Mine everyday about 60-80 Lac Liters water being pumped from underground to surface tanks
- Availability of water at Gumgaon Mine after Mining, drilling and Sand stowing operations - 60 LPS.
- The water is available at storage tank near O.C.F.
- The available water head is about 15 Meters.
- As per available resources about 3 KW capacity, hydropower turbine can be installed near water storage tank.
- Estimated cost of 3.5 KW capacity Hydro Power turbine is Rs. 12.32 Lac Plus GST.
- Expected generation from 3.5 KW hydro power project is 26,280 KWh in a year.
- Expected payback time is 5-6 years.



### Operation flow chart:





**LIST OF OUTDOOR ACTIVITIES**

1. Mass Plantation drive in IBM HQ and Other field offices have been undertaken on account of Mahatma Gandhi Jayanti on 02.10.2023. In addition to HQ, NAGPUR, IBM has also observed mass plantation activity at 16 locations in the country where IBM offices are established.
2. Swachhata kit distribution at Govt. School by Dehradun Regional Office IBM (03.10.2023).
3. Walkathon has been organized at Kodingamalli mine site area of M/s OMC Ltd. in Odisha state on 07.10.2023
4. IBM Jabalpur Regional office employees (19 participants) organized a mass cleanliness drive at Rani “Durgavathi Samadhi Sthal” a prominent tourist place on 08.10.2023
5. Creating awareness on Swachh Bharat Mission, Swachhta kits have been distributed IBM, Jabalpur Office to people residing near Bargi Dam, MP. (08.10.2023)
6. In Belagavi District Karnataka, IBM Goa employees in association with M/s Dalmia Cements Ltd. Organized a mass plantation drive at mine site location (08.10.2023)
7. Swachhata kit distribution at Govt. School by Ranchi Regional Office IBM (10.10.2023).
8. Swachhata kit distribution at Govt. School by Kolkata Zonal Office IBM (10.10.2023).
9. Fit India Run as a part of Special Campaign 3.0- reg at IBM Regional Office, Raipur (10.10.2023)
10. Fit India Run as a part of Special Campaign 3.0- reg at Zonal Office, Kolkata (10.10.2023)
11. Swachhata kit distribution at Govt. School by Ranchi Regional Office IBM (11.10.2023).
12. Fit India Run as a part of Special Campaign 3.0- reg at IBM, Head Quarter, Nagpur (12.10.2023)
13. In Raipur District Chhattisgarh IBM Raipur employees in association with Century Cement Limestone mine of M/s Ultratech Cements Ltd. Organized a Swachhta Abhiyan/Shram dan/ Awareness of Swachhata at mine site location (03.10.2023)
14. Walkathon Conducted at IBM, Ranchi for 2.5 km. Officers and staffs of IBM, Ranchi (14 people) participated in Walkathon. (Fit India Run Activity) (12.10.2023).
15. Walkathon Conducted at Kiriburu for 3.5 km. A total of 55 people including of officials/ staff of Kiriburu Iron Ore Mines, M/s SAIL along with students of Project Central School, Kiriburu participated in this activity (12.10.2023).
16. Walkathon Conducted at Meghahatuburu for 2 km. A total of 40 people including of officials/ staff of Meghahatuburu Iron Ore Mines, M/s SAIL participated in this activity (12.10.2023).
17. Swachhta awareness and distribution of Dustbins to Vendors/Fruit sellers at Kiriburu, West Singhbhum, Jharkhand
18. Fit India Run as a part of Special Campaign 3.0- reg at IBM, Goa Regional office (13.10.2023)
19. IBM Chennai office organized various competitions in Arizhnar Anna government schools Chennai to create awareness about cleanliness.
20. Swachhata kit distribution at Bagadu Jamun Toli Govt. School, Dist. Lohardaga, Jharkhand by Ranchi Regional Office IBM (13.10.2023).
21. Shri Sanjay Lohiya, Addl. Secretary (Mines), MOM, Government of India and Controller General (In-charge), IBM also planted saplings during his visit to Hyderabad Regional Office on 13.10.2023.
22. Fit India Run as a part of special campaign 3.0 organized at IBM, North Zone office, Udaipur on 15.10.2023 covering 7 km.
23. Fit India Run as a part of special campaign 3.0 organized at IBM, Dehradun Regional Office on 14.10.2023
24. Fit India Run as a part of special campaign 3.0 organized at IBM, Ajmer Regional Office on 16.10.2023.
25. Swachhata kit distribution at to Utkramit High School, Prospecting, Kiriburu, Distt. West Singhbhum, Jharkhand, by IBM, Ranchi Regional Office.
26. Completion of compost pit at Government Scheduled Tribe Girls Residence Middle School ,Chorpat, Distt Gumla, Jharkhand by IBM, Ranchi Regional Office 14.10.2023

27. Swachhata kit distribution at to Utkramit Middle School, Kumadi, Distt. West Singhbhum, Jharkhand, by IBM, Ranchi Regional Office, 16.10.2023.
28. Fit India Run as a part of special campaign 3.0 organized at IBM, MMPL & PP Nagpur Office on 16.10.2023
29. Fit India Run as a part of special campaign 3.0 organized at IBM, Guwahati Regional Office on 17.10.2023
30. Cleanliness drive in near of holy Narmda River, Gaurighat, Jabalpur on 17.10.2023
31. FitIndia Run as a part of special campaign 3.0 organized at IBM, RO,ZO,RODL,Bangaluru Office on 18.10.2023
32. Swachhta Kits distributed to the Girls in presence of officials of IBM, Kolkata and officials of the Sukanya Home (Govt. Of West Bengal) on 18/10/2023.
33. Fit India Run as a part of special campaign 3.0 organized at IBM, Bhubaneswar Office on 17.10.2023
34. Fit India Run as a part of special campaign 3.0 organized at IBM, Jabalpur Office on 18.10.2023
35. Swachhata kit distribution at Olcott School Besant nagar Chennai, Govt. School by Chennai Regional Office IBM on (19.10.2023).
36. Swachhata kit distribution at to Utkramit Primary School, Hijari Hating and Aaganwadi, Gua, Distt. West Singhbhum, Jharkhand, by IBM, Ranchi Regional Office, 19.10.2023.
37. Shri V.L. Kantha Rao, Secretary (Mines), MOM, Government of India, planted saplings during his visit to Indira Bhawan, IBM, Head Quarter, Nagpur Office on 20.10.2023.
38. Distribution of Swachhta Kit at राजकीयकृतउत्क्रमितमध्यविद्यालय, खामडीह, सतबरवापलामू, झारखंड by Ranchi regional office has been carried out on 21.10.2023.
39. Swachhta Awareness program in Government Upper Primary Schools, Aerodrome Area, Bhubaneswar on 20.10.2023.
40. Fit India Run as a part of special campaign 3.0 organized at IBM, Gandhinagar Office on 25.10.2023
41. Special campaign 3.0 organized at IBM, Kolkata Office on 25.10.2023 garbage free India awareness walkathon in nearby locality
42. Fit India Run as a part of special campaign 3.0 organized at IBM, Hyderabad Regional Office on 25.10.2023
43. Swachchtha kit distribution at to Govt. Higher Secondary School, Badgaon, Ajmer, Rajasthan by IBM, RMPL Ajmer on 27.10.2023
44. Swachchtha Kits distribution at Kshitish Deaf & Dumb Middle School, Niwaranpur, Ranchi and at आदिमजनजातिसेवामंडल-(अनाथालय), निवारणपुर, रांची.
45. Cleanliness drive in Bhairav Mandir and Sangram sagarjhil, Jabalpur by IBM Jabalpur office on 29.10.2023
46. Swachchtha kit distribution at to Govt. High school. Musheerabad by IBM Hyderabad Office on 30.10.2023.
47. Swachchtha kit distribution at to Govt. Upper Primary School, Ravinagar Nagpur by IBM Head Quarter, Nagpur on 30.10.2023.
48. Swachchtha kit distribution at to Govt. Railway Colony High school. New Guwahati by IBM Guwahati Office on 30.10.2023.
49. Swachh awareness program organized at Government High School Goragontepalya , Bengaluru on 30.10.2023. and also distributed Swachchtha Kit to the students.
50. Swachchtha kit distribution at to Govt. Upper Primary School, Futala N.M.C. Nagpur by IBM Head Quarter, Nagpur on 31.10.2023
51. Fit India Run as a part of special campion 3.0 organized at IBM, Chennai, Regional Office on 31.10.2023
52. Swachchtha Awareness and Swachchtha Kit distribution at Jabalpur area by IBM Regional office, Jabalpur on 31.10.2023.
53. Completed of compost pit at Govt. Utkramit Middle School Dumarpat by IBM Regional Office Ranchi on 30.10.2023.

54. Swachchtha kit distribution at toराजकीयप्राथमिकविद्यालयवाआंगनवाड़ी, अंबाकोना, बिशुनपुरप्रखंड, गुमलाजिला, झारखंड
55. Swachchtha kit distribution at toनवप्राथमिकविद्यालय, पहाड़धार, लावा, नीमडीहप्रखंड, सरायकेलाखरसवांजिला, झारखंड
56. Swachchtha kit distribution at toउत्क्रमितमध्यविद्यालय, लावा, नीमडीहप्रखंड, सरायकेलाखरसवांजिला, झारखंड
57. Swachchtha kit distribution at toप्राथमिकविद्यालय, लावा, नीमडीहप्रखंड, सरायकेलाखरसवांजिला, झारखंड

## GLIMPSES OF OUTDOOR ACTIVITIES OF SPECIAL CAMPAIGN 3.0



**Shri Sanjay Lohiya, Att. Secretary (Mines), MOM, Government of India and Controller General (In-charge), IBM also planted saplings during his visit to Hyderabad Regional Office on 13.10.2023**



**Swachchtha kit distribution at to Govt. Upper Primary School, Ravi nagar Nagpur by IBM Head Quarter, Nagpur**





**Cleanliness drive in near of holy Narmda River, Gaurighat, Jabalpur on 17.10.2023**



**Swachhata kit distribution at Govt. School by Ranchi Regional Office IBM (11.10.2023)**



**Swachhata kit distribution at Govt. School by Kolkatta Zonal Office IBM (10.10.2023)**

### Eco-friendly and tourist attract activities at Mine sites

S. No	Name of the Mine	State and IBM Jurisdiction	Activity done
1	Gumgaon Mn. Mine	Maharashtra Nagpur Region	Development of aesthetic beauty/recreation spot of reclaimed mine site area (NEERI Plantation)
2	Century Cement L.st Mine	Chhattishgarh, Raipur Region	(i) Development of water reservoir/ harvesting pond and recreational park and picnic spot over mined out pit (ii) Beautification of view point by plantation and developing a tourist spot
3	Sagmani L. St Mine	Madhya Pradesh, Jabalpur Region	Development of Picnic spot and eco-friendly site
4	Tamoria L. St Mine	Madhya Pradesh, Jabalpur Region	Development of Picnic spot and eco-friendly site
5	Amtipani Bauxite mine	Jharkhand, Ranchi Region	Development of water harvesting pond, Development of green recreation park around water harvesting pond, plantation of fruit bearing trees in reclaimed land, development of self help group, swachhta awareness among asur tribe and their development
6	Joda East Iron Mine	Odisha, Bhubaneswar Region	Development of garden over waste dump area within the mining lease. Dump stabilization and beautification as per PMCP proposal by afforestation, coir matting & other protective measures. Up-keeping of Children Park developed adjacent to the mining lease area.
7	Kodingma li Bauxite Mine	Odisha, Bhubaneswar Region	Development of garden over Non-mineralized area within the mining lease. Development of water pond. Solar Panel installation (50 KWH). Beautification by plantation over reclaimed area. Solid waste management (CSR activities outside ML area).
8	Kammatharu iron ore mine	Karnataka, Bangalore Region	Development of tourist siteout and nature walkway path through reclaimed mine site area to reach vicinity of Archeological protected monument with eco-friendly beautification. Showcasing reclaimed backfilled area converted into a garden
9	Devalpur L.St Mine	Telangana, Hyderabad Region	Development of picnic spit/garden on the backfield area. Construction of temple on backfield area and development of aesthetic beauty around the pond developed in mined out area.

10	Pandalgudi L.St Mine	Tamilnadu, Chennai Region	Development of tourist attraction site and eco friendly activity. Development of green recreation park around water harvesting pond, Pisciculture in mined out area. Children Park developed adjacent to the mining lease area.
11	Yadwad& Kunnal L.St Mine	Goa , Goa Region	Development of eco-friendly activities, agro forestry and use of mine pit water reservoir as drinking water supply
12	Zawar Group of Mines	Rajasthan, Ajmer Region	Development of tourist attraction site and eco friendly activity
13	Adityana L.St & Marl Mine	Gujarat, Gandhinagar Region	Development of tourist attraction site near Jamvanti Gufa/ caves adjoining the ML area. Development of garden on backfilled area. Development of water pond in mined out pits.
14	Sugala L.St Mine	Gujarat, Gandhinagar Region	Development of garden on backfilled area. Development of water pond in mined out pits.
15	Jhiroli Magnesite Mine	Dehradun Region	Old dump at Jhiroli Magnesite Mine, which was used for Bee culture will be cleaned and revitalised for the purpose



## GLIMPSES OF ECO-FRIENDLY & TOURIST ATTRACTION ACTIVITIES AT MINE SITES



SWACHHATA CAMPAIGN-3.0

BY

*The Sander Manganese & Iron Ores Limited*

Under Aegis of Regional Office of Indian Bureau of Mines, Southern Zone, Bengaluru



**Objective 2: Showcasing of the Eco-Friendly Reclaimed and Rehabilitated Surface Dump to Garden at Kammatharu Iron Ore Mine.**  
**Work Progress as on 07.10.2023 : Beautification of View point and Garden at the top of reclaimed dump under progress.**

Identified places on dumps suitable for bee hives and accordingly the hives developed



### Management

Management of crops, weeds, shrubs, trees, ornamentals was done in such a way that there is enough pollen and nectar for the bees all round the year.

**Bee Hives Developed On The Reclaimed Dumps & Expansion After Cleaning And Clearing The Site, Jhiroli Magnesite Mines, Dist. Bageshwar Uttarakhand**





**Reclamation by way of backfilling and water reservoir in the Devapur Limestone Mine of M/s TSMDC in Mancherial District, Telangana State**

## **Swachhata Pakhwada from 16.11.2023 to 30.11.2023**

Ministry's email dated 12.09.2023, IBM has undertaken activities during the Swachhata Pakhwada during the period 16.11.2023 to 30.11.2023 in mine locations as well as IBM office premises. IBM has instructed through regional offices to Mines to perform these Swachhata Pakhwada activities at mines site.

### **Activities at mine locations.**

#### **b. Clean & Swachh mines:**

- Cleanliness programmes in mine operation locations, maintenance workshops, office premises etc.
- Any other relevant activity

#### **c. Targeting adjoining villages/ towns/ areas to make ODF**

- Adoption of schools/ hospitals/ villages for open defecation free
- Adoption of schools/ hospitals/ villages for supply of drinking water facility etc.
- Any other activity relevant to this sub theme.

#### **d. Launching of pilot schemes of zero waste mines**

- Efforts towards beneficiation of low grade ores
- Utilization of sub grade ores
- Utilization of waste material for back filling of mined out areas
- Utilization of top soil in plantation programmes
- Any other suitable activity

#### **e. Swachhta message dissemination through banners, posters etc.**

- Posters
- Banners
- Wall paintings
- Street Play
- Elocution/ essay writing/ debate competitions in schools
- Shramadaan
- Workshops etc.

#### **f. Hygiene kits for the labours.**

- Supply of hygienic kits to labourers
- Status of occupational health
- Drinking water and other amenities to workers within the mining lease area
- Any other aspect relevant to this sub theme

#### **g. Massive tree plantation and Shramdaan**

- Mass plantation drive within the ML areas/ outside ML areas/ school, hospital compounds/ nearby villages/ avenue plantation
- Efforts for survival of previous plantation
- Any other aspect relevant to this sub theme

#### **h. Wide publicity on daily activities to be given through local print media, TV channels, social media etc.**



Patabeda Iron Ore Mine in Odisha State



Inauguration of Swachhata Pakhwada at Maihar Cement Works, M.P