Government of India
Ministry of Mines

Annual Report 2014-15

Indian Bureau of Mines

A rock or stone is not a subject that, of itself, may interest a philosopher to study; but, when he comes to see the necessity of those hard bodies, in the constitution of this earth, or for the permanency of the land on which we dwell, and when he finds that there are means wisely provided for the renovation of this necessary decaying part, as well as that of every other, he then, with pleasure, contemplates this manifestation of design, and thus connects the mineral system of this earth with that by which the heavenly bodies are made to move perpetually in their orbits.

— James Hutton
Theory of the Earth, with Proofs and l1lustrations, Vol. 1 (1795), 276.

ANNUAL REPORT
2014-15

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Indian Bureau of Mines
Nagpur

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Contents

Annexure Contd.

Annexure XVI	CIC Order for disclosure of information contained in a mining plan submitted by a private party.	
Annexure XVII	Performance of IBM as per Result Framework Document of IBM for 2014-15	
Annexure XVIII	State-wise Mining Plans/Schemes of Mining/Final Mine Closure Plans approved By IBM during 2014-15	
Annexure XIX	Jurisdiction of Zonal/Regional offices of IBM	
Annexure XX	Contact Details of Divisional / Zonal / Regional Offices of Indian Bureau of Mines	
Annexure XXI	Celebration of Khanij Divas in IBM	
Annexure XXII	Swachchha Bharat Abhiyan in IBM	

Preface

As a consequence of implementation of recommendations of the Committee for review and restructuring of the functions and role of IBM, renaming of "Mines Control & Conservation of Minerals Division" as "Minerals Development and Regulation Division" and "Ore Dressing Division" as "Mineral Processing Division" and new charter of functions of IBM were approved by Ministry and notified in the Gazette of India on 22.11.2014. IBM is optimistic about implementation of the recommendations having financial implications of the Committee for which Cabinet note is under consideration of the Ministry.

On the Mining Legislation front, royalty rates in respect of major minerals (excluding coal, lignite and sand for stowing) were revised with amendments to the Second Schedule of the MMDR Act, 1957 vide GSR 630(E) on 1.9.2014. The Government has promulgated an Ordinance on the 12th January, 2015 (MMDR Amendment Ordinance, 2015) under Article 123(1) of the Constitution, amending certain provisions of MMDR Act, 1957. The Ordinance has become Act after vetting by Parliament in its Budget Session, 2015 on 27th March 2015. Further, the Central Government has declared 31 minerals as minor minerals in addition to the minerals already declared as minor minerals, vide Notification S.O. 423 (E) dated 10.2.2015.

IBM has initiated actions for improvement of work environment as per the directions of Ministry. For simplification of Forms a Committee has been constituted in IBM to review the forms on vogue to avoid the irrelevant information and shorten them to the possible extent. As part of ICT, biometric attendance system has been made operational in IBM (Headquarters) and other regional offices. Swachchha Bharat Abhiyan was started at IBM from 2nd October, 2014. Further, as per the directions of Ministry of Mine, intensive drive for cleanliness was carried out from 25.10.2014 to 31.10.2014 at IBM HQ as well as all the Zonal/Regional Offices and Regional Ore Dressing Laboratories.

For promotion of conservation and scientific development of mineral resources and ensuring protection of mines environment in mining areas, IBM carried out 2427 Inspection of mines for enforcement of provision of MCDR, 1988 and examination of MP/MS, disposed 357 Mining Plans (approved 255, not approved 102), 654 Schemes of Mining (approved 485, not approved 169) and 32 Final Mine Closure Plans(approved 20, not approved 12) in the year 2014-15. In persuasion to minutes of Coordination-cum-Empowered Committee (CCEC) meeting, a Committee constituted under convener-ship of IBM, have prepared manual of Standard Operating Procedures (SOPs) for curbing illegal mining activities.

For implementation of the Project "Mining Tenement System", to develop an online National Mineral Information System for investors by linking Central and State organizations engaged in administration of mineral resources in the country, process for re-tendering initiated as only single party responded for the bid. Carrying out

requisite changes in the new RFP to make it in line with the MMDR Amendment Ordinance 2015 was in progress.

"IBM Manual for Appraisal of Mining Plans" and "IBM Manual for Inspection" have been finalized after incorporating the valuable suggestions of stakeholders and the same has been hosted on website. IBM has prepared standard templates for Implementation of SDF in mining sector.

Regional Office Jabalpur is in the process of getting ISO certification which will bring the tally to nine ISO certified Regional offices. IBM has prepared a technical bulletin on "Application of Rock Mechanics, Surface & Underground Excavations".

IBM has introduced an internal audit system by Zonal heads of MCCM Division for the inspections under MCDR 1988 carried out by the Regional offices and during the year Zonal heads covered 125 inspections under this system. In a proactive role for checking irregular & illegal mining, during 2013-14 IBM formed Task Force III which inspected total **204** mines in endemic areas in seven mineral rich states and up to the month of March, 2015, **50** mines have been suspended and in case of **12** mines the suspension has been revoked.

On the Industry front, though sluggishness in the economy continues, there are some signs of initiation of revival. The high inflationary pressure and high interest rates have affected all the economic sectors of the country including the mining sector. The index of mineral production (base 2004-05) for the financial year 2014-15 is estimated to be 126.5 as compared to 124.7 for the corresponding period of previous year registering an increase of 1.4 %.

The minerals under MCDR 1988 reported negative growth of 13.7 % during the financial year 2014-15 as compared to that in the same period of previous year owing to decrease in production of iron ore, chromite, gold, manganese ore, barytes. The decrease is mainly in respect of Iron ore (15.6%), Chromite (23.6%), Manganese Ore (14.0%), Gold (7.6 %) and Barytes (7.6%).

With the ultimate aim of Sustainable Development of the Mining Sector, IBM is participating in the process of regulation by maintaining a fine balance between mineral regulation and development. It will be the endeavor of IBM to have proactive approach to energize Indian Mining Sector.

IBM is ready to perform its role entrusted vide new charter of functions, as the National Technical Regulator, National Mineral Information Repository, Capacity Builder, promoting research, providing technical consultancy in respect of the mining sector, proactively and effectively.

R. K. Sinha
Controller General, IBM.

CHAPTER – I

Highlights of 2014-15

- Inspected 2,427 Mines (including 1071 inspections for approval of Mining Plans/Schemes of Mining/Mine Closure Plans). IBM has introduced an internal audit system to be carried out by its Zonal heads for the inspections under MCDR 1988 carried out by the Regional offices. Under this system Zonal heads covered 127 inspections in 2014-15 for internal audit scrutiny.
- IBM brought out "Manganese Ore: Vision 2020 & Beyond" addressing the interconnected issues that exists and confronts the Indian manganese ore industry in all its strata from Mines to Metals. This publication will facilitate to have a re-look on policy orientation on the basis of techno-economic parameters.
- IBM has modified draft standard templates for Implementation of SDF in mining sector in the light of major dimension of SDF frame work, sub-criterion/ sub dimensions and identification of measurable terms etc.
- Swachh Bharat Abhiyan was started at IBM from 2nd October, 2014. Further, as per the directions of Ministry of Mine, intensive drive for cleanliness was carried out from 25.10.2014 to 31.10.2014 at IBM HQ as well as all the Zonal/Regional Offices and Regional Ore Dressing Laboratories.
- Manual of Standard Operating Procedures have been prepared by the committee constituted as per item No. 7 of CEC meeting held on 15.05.2014 to address the issues related to implementation of rules framed under Section 23 (C) of MMDR Act, 1957 for curbing illegal mining activities.
- Intermediate updation of National Mineral Inventory – As on 1.04.2013 in respect of 21 select minerals as per United Nations Framework Classification of mineral resources was completed for providing a quick and broad scenario of national mineral resources for policy planners and entrepreneurs.
- To sensitize the importance of mineral conservation and protection of environment, organised 15 Mines Environment and Mineral Conservation Weeks in non-fuel mines pan India in which 1065 mines participated.
- Approved 255 Mining Plans, 485 Schemes of Mining and 20 Final Mine Closure Plans.

- Issued 3724 violations in respect of 1321 mines and prosecutions launched against 78 mine owners for non-compliance of provisions of MCDR, 1988. Suspended mining operations under rule 13(2), and 45 of MCDR, 1988 in 357 mines and suspension orders were revoked in 152 cases.
- Updated 100 multi-mineral leasehold maps with forest overlays in respect of Andhra Pradesh and Bihar on a scale of 1:50,000.
- Completed 03 Technical Consultancy Assignments on Mining, Geology and Environment and 01 Mining Research oriented Consultancy Assignment pertaining to Blast Induced Ground Vibration Study.
- To encourage value addition and mineral conservation completed 58 Mineral Beneficiation Investigations. Carried out chemical analysis for 34660 radicals and 2,244 Mineralogical Studies.
- As an incidental activity, IBM generated a Revenue of Rs. 94.55 lakhs.
- Released 23 statistical and allied publications and periodicals on various aspects of the mines and minerals.
- As part of the capacity building of human resources, conducted 16 training courses for the industry, State Governments employees, IBM employees etc including three exclusively for personnel from the NER States.
- To mark the IBM foundation day, ‘Khanij Diwas’ was observed on 01 March, 2015 at IBM Headquarters and Zonal and Regional Offices.
- A scheme “Mining Tenement System” is being implemented by IBM to develop an online National Mineral Information System for investors by linking Central and State organizations engaged in administration of mineral resources in the country. During the year process for re-tendering initiated as only single party responded for the bid. Carrying out requisite changes in the new RFP to make it in line with the MMDR Amendment Ordinance 2015 was in progress.
- As per amended Rule 45 of MCDR 1988, registration numbers have been allotted to **8975** lessees. Similarly as regards to the status of registration of end users, traders, stockiest and exporters, **at the end of March, 2015** total 3041 units of end-users, 4601 number of traders, **1543** number of stockiest and 804 number of exporters have been registered.

- As a consequence of implementation of recommendations of the Committee for review and restructuring of the functions and role of IBM, renaming of “Mines Control & Conservation of Minerals Division” as “Minerals Development and Regulation Division” and “Ore Dressing Division” as “Mineral Processing Division” and new charter of functions of IBM were approved by Ministry and notified in the Gazette of India on 22.11.2014.
- Observed Hindi Fortnight at Head Quarters and at all regional offices and Regional Ore Dressing Laboratories of IBM during 02-15 September 2014.
- IBM manual on appraisal of mining plan 2014 and IBM Manual of Inspections have been prepared and uploaded it on IBM website for their implementation.
- Six officers of IBM were on foreign deputation to Geneva, Switzerland; Sudbury, Ontario, Canada; Cape Town, South Africa; and two officers attended Training on “Sustainablle Mining Development” in Japan under the Technical Cooperation Programme of the Government of Japan.
- Sub Sectors Development Plans for Lead & Zinc, Aluminium and Rock Phosphate were prepared.
- Right to Information Act has been implemented as a matter of policy of Govt. of India and is being attended to.
- Online facility for registration of public grievances has been provided by linking IBM's website with the grievance portal of DoPT "Central PGRAMS".

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CHAPTER - II

ROLE AND ORGANISATION OF INDIAN BUREAU OF MINES

The Indian Bureau of Mines (IBM) established in 1948 is a scientific and technical organisation under the Ministry of Mines. It is engaged in the promotion of scientific/ sustainable development of all the 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, and accomplishes it through a gamut of assigned functions, both statutory and non-statutory.

Vision for IBM

2.1 The National Mineral Policy, 2008 (NMP) has envisioned diverse mineral development programmes and has formulated policy framework and strategies for providing a roadmap to achieve sustainable mineral development in the country. Therefore, the vision statement for IBM necessarily reflects the character of NMP, 2008. Accordingly, the vision envisaged is:

"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".

Mission

2.2 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.

Objectives

2.3
i. To work as National Technical Regulator operating at national-level designing systems, processes and guidelines for regulation of the mining 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 an Advisor to the Government in matters and issues relating to the mineral sector in areas of short-medium and long-term mineralwise 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 counterparts through consultations and exchange programmes

and to build capacity, skill & expertise through academic and training programmes at institutes of international repute.

Role

2.4 IBM's functions are pivotal in the development of Indian Mineral Industry.

The Bureau:

- Promotes conservation and systematic & scientific development of mineral resources of the country through inspection of mines, beneficiation plants, and mineral based industries;
- Approves the mining plans which is a pre-requisite for grant/renewal of mining leases and also approves schemes of mining, mine closure plans, grants recognition to Qualified Persons for preparing mining plans.
- Conducts geological, mining, beneficiation and other related techno-economic field studies and applied research on mining-geological problems.
- Conducts studies on environmental protection and pollution control in regard to the mining and mineral beneficiation operations.
- Implements the Offshore Areas Minerals (Development & Regulation) Act, 2002 and administers the grant of Mineral Concession in offshore areas.
- Prepares mineral maps and the inventory of mineral resources of India.
- Provides technical consultancy services in the field of mining, geology, mineral processing and environment.
- Conducts mineral beneficiation and related technological studies under the departmental programme.
- Disseminates information and data on exploration, prospecting, mines, minerals, mineral based industries and mineral legislation, and publishes bulletins and monographs.
- Imparts training to the scientific, technical and other cadres of IBM as well as persons from the mineral industry and other agencies for human resource development.
- Acts as Data Bank on Mines and Minerals.
- Advises the Government on matters in regard to mineral industry, relating to environmental protection and pollution control, export and import policies, trade, mineral legislation, fiscal incentives and related matters and conducts market surveys of minerals and metals.
- Promotes awareness about conservation, systematic and scientific development of mineral deposits and protection of environment including restoration, reclamation and rehabilitation of mined out areas through exhibitions and audio-visual media.
- Promotes and monitors community development activities in mining areas

In the wake of the liberalization of the policy regime governing mineral sector and the 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 3rd 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.

Key Activities and Functions

2.5 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.

2.5.1 Regulatory Functions

i. Accreditation to qualified persons as Recognised Qualified Persons (RQP) to prepare Mining Plans (Rule 22B & 22C of MCR 1960);

ii. Mining Plan & Scheme of Mining - Inspections and Approval (Rule 22(4), 24A of MCR 1960; Rule 9, 10, 11 & 12 of MCDR 1988);

iii. Mining Regulations for ensuring implementations of Mining Plan, Scheme of Mining, Mine Closure Plan and other statutory provisions of MCDR 1988 and launching of prosecutions (Section 22 & 24 of MMDR Act 1957);

iv. Inspections and grant of permissions to carry out 'stoping' operations in underground mines (Rule 26 of MCDR 1988);

v. Monitoring of Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) aspects of mining operations (Rule 13 and 31 to 41 of MCDR 1988 and Section 10 of EP Act 1986);

vi. Calculations of State-wise, mineral-wise and month-wise royalty on *ad valorem* basis (Rule 64D of MCR 1960 and Rule 45 of MCDR 1988);

vii. Mine Closure Plan - Inspections, Approval and monitoring (Rule 23A to 23F of MCDR 1988);

viii. 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), and

ix. Grant of mineral concessions and monitoring of its activities in the offshore areas [various provisions of Offshore Areas Mineral (Development and Regulation) Act 2002 and the Offshore Areas Mineral Concession Rules, 2006].

2.5.2 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 characterisation, chemical analysis of ores and minerals and analysis of environmental samples;

(ii) Information Support and Advisory Services - To function as an advisory body 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 like 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 analyse 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.

Organisation

2.6 IBM has its headquarters at Nagpur and is headed by Controller General.

IBM is organized into six functional divisions, namely:

(i) Mines Control & Conservation of Minerals Division" renamed as "Minerals Development and Regulation Division"

(ii) Ore Dressing Division" renamed as "Mineral Processing Division

(iii)Technical Consultancy, Mining Research and Publication Division.

(iv)Mineral Economics Division.

(v) Mining and Mineral Statistics Division.

(vi) Planning and Co-ordination Division having two sub-divisions:

a) Administration, Establishment matters (including training), Accounts with all other administrative and financial matters and;
b) Planning and Co-ordination.

The existing set-up is shown in the organisation chart (as on 31.3.2015).

Modern Mineral Processing Laboratory and Pilot Plant

2.7 UNDP aided Modern Mineral Processing Pilot Plant and Analytical Laboratory of IBM is located at MIDC Hingna, Nagpur. IBM's Environmental laboratory has the recognition of the Central Government to carry out testing of samples of air, water, soil and other substances specified under the Environmental (Protection) Act, 1986. IBM has been registered by the Department of Scientific & Industrial Research (DSIR) for purpose of availing Customs Duty exemption to carry out R&D work.

Zonal / Regional /Sub Regional Offices

2.8 The Mines Control and Conservation of Minerals Division now renamed as "Minerals Development & Regulation Division" functions through its Zonal offices viz North, Central and South located at Ajmer, Nagpur and Bangalore respectively and 12 Regional Offices located at Ajmer, Bangalore, Bhubaneswar, Chennai, Dehradun, Goa, Hyderabad, Jabalpur, Kolkata, Nagpur, Ranchi and Udaipur and 2 sub-regional offices located at Guwahati and Nellore. The territorial jurisdiction of regional offices is shown in the map.

Regional Ore Dressing Laboratories

2.9 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. A Clay Testing Laboratory is also functional at Kolkata for catering the needs of North Eastern Region.

Activities of IBM

2.10 The activities of IBM have been conducted through the following continuing schemes:

Scheme No. 1. Inspection of mines for scientific and systematic mining, mineral conservation and mine environment;

Scheme No. 2. Mineral beneficiation studies, utilisation of low-grade and sub-grade ores and analysis of environmental samples;

Scheme No. 3. Technological upgradation and modernisation, and

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

In addition a new Scheme, Scheme No. 5. Mining Tenements System is in process of implementation.

Human Resources in IBM

2.11 The Bureau has a total sanctioned strength of 1477 consisting of 420 Gazetted (Group A – 243 & B – 177) and 1057 Non-Gazetted (Group B – 362, Group C (Tech.) - 191 & Group C –504) posts. Sanctioned strength in various streams is as per the table below:

Sl. No.	Stream	Sanctioned strength
1	Mining Engineers	145
2	Mining Geologists	115
3	Ore Dressing, Chemical &Metallurgical Engineers	224
4	Mineral Economists	53
5	Statisticians	74
6	Administrative &other Technical Personnel	866
	Total	1477

Committee for Review and Restructu-ring of the Functions and Role of IBM

2.12 In terms of the policy directions given in the National Mineral Policy 2008, the Government had constituted a Committee for review and restructuring of the functions and role of the Indian Bureau of Mines under the Chairpersonship of Joint Secretary (Mining Legislation), Ministry of Mines. The Committee submitted the "Report of the Committee for Review and Restructuring of the Functions and Role of IBM" to the Government on **4th May 2012**.

The Committee has made 73 major recommendations for overall restructuring of the IBM including creation of additional 933 posts and infrastructure development like opening of new offices, new environmental laboratories, training centres etc.

The Ministry has communicated IBM vide letter No.31/72/2009-M.III dated 10th September, 2012 that the recommendations of the Committee have been accepted and directed to start the implementations of recommendations.

SFC note along with DPR and Cabinet Note for implementation of 46 financial implications recommendations of the IBM Review and Restructuring report is under consideration of Ministry.

IBM has initiated to implement 26 non-financial recommendations of Review and Restructuring Committee. Ministry has considered 2 non-financial recommendations regarding national level awards and RQP examination as financial implicated and dropped from non-financial recommendations. Hence, 24 non-financial implicated recommendations have been

taken up for implementation. So far, action initiated in respect of 17 recommendations. They are implemented and are ongoing activities in IBM. Three recommendations having no financial implications regarding renaming of divisions and new charter of functions of IBM were approved by Ministry vide Resolution No.31/49/2014-M.III on 03.11.2014 and notified in the Gazette of India on 22.11.2014. “Mines Control & Conservation of Minerals Division” renamed as “Minerals Development and Regulation Division”. “Ore Dressing Division” renamed as “Mineral Processing Division” . One (1) revised proposal sent to Ministry for approval on 27.06.2014. Remaining three (3) recommendations are under consideration for implementation. Thus out of 24 non-financial implicated recommendations, 20 recommendations have been implemented.

Status of implementation of non financial recommendations is enclosed at **Annexure V.**

Capacity Building recommended in IBM Review & Restructuring Report

1. IBM to evolve as a National Technical Regulator ensuring effective regulation of Indian non-coal mining sector to ensure sustainable mining practices by creation of adequate human resource.

2. IBM to evolve as a consultant for creation and improvement of state –level regulatory mechanism in order to assist them for effective regulation of mineral sector including for prevention of illegal mining activities.

3. Improving quality of Mining Plans and Schemes of Mining and grant of recognitions to qualified persons for preparation of Mining Plans by re-orienting and improving the system.

4. To create infrastructure, facilities and expertise for regulation of the off-shore mineral developmental activities including systems and standards practices for grant of mineral concessions and exploration and exploitations techniques in offshore areas.

5. Digitization of resource inventory and updation of the same at frequent interval in accordance with the international norms.

6. Creation of facilities and expertise to monitor and implement the Sustainable Development Framework (SDF) including closure and post- closure activities and socio-economic issues related to mining industry.

7. Development of interactive web enabled portal and use of full potential of information technology for effective regulation of mineral sector to ensure transparency.

8. Development of ‘Mining Tenement System’ for transparent and effective mineral concession system linking with State Governments, Indian Bureau of Mines and Central Government databases.

9. Opening of new Regional offices in mineral rich states and re-organisation of territorial jurisdiction of existing regional offices as per state boundaries to have greater synergy with the State Governments.

10. Strengthening of mineral processing, mineralogical, chemical and environmental laboratories of IBM and creation of facilities and infrastructure for mineral processing regulation in

order to achieve the concept of zero waste mining.

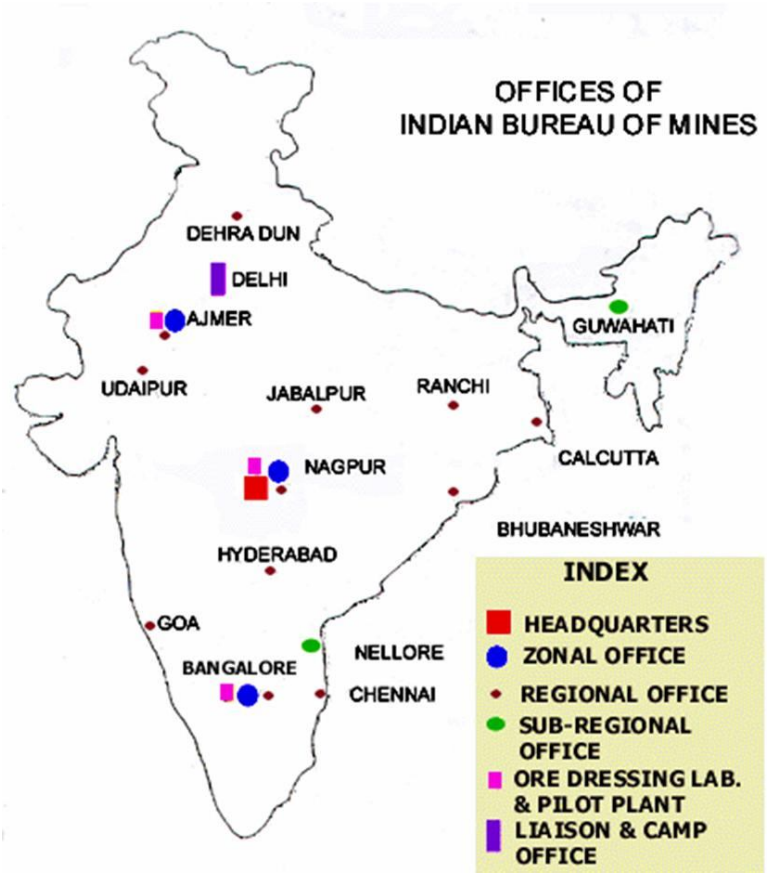
11. To evolve IBM as a mineral intelligence and information centre and creation of data bank on mines and minerals rendering strong support and policy related inputs to the Government.

12. Capacity building of existing training facilities and creation of additional training infrastructure to work as Centre of excellence to impart training to Central, State and industry personnel in applied aspects of mining and mineral processing sector.

Modern Mineral Processing Laboratory & Pilot Plant, Nagpur

Indira Bhavan - IBM HQ

Analytical Laboratory, Nagpur


OFFICES OF
INDIAN BUREAU OF MINES
DEHRA DUN
DELHI
AJMER
UDAIPUR
JABALPUR
RANCHI
GUWAHATI
CALCUTTA
NAGPUR
BHUBANESHWAR
HYDERABAD
GOA
NELLORE
BANGALORE
CHENNAI
INDEX
HEADQUARTERS
ZONAL OFFICE
REGIONAL OFFICE
SUB-REGIONAL OFFICE
ORE DRESSING LAB. & PILOT PLANT
LIAISON & CAMP OFFICE


Teritorial jurisdiction of
Regional Offices of
Indian Bureau of Mines
DEHRADUN
AJMER
GUWAHATI
JABALPUR
RANCHI
UDAIPUR
KOLKATA
NAGPUR
BHUBANESWAR
HYDERABAD
GOA
NELLORE
BANGALORE
CHENNAI
INDEX
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ZONAL OFFICE
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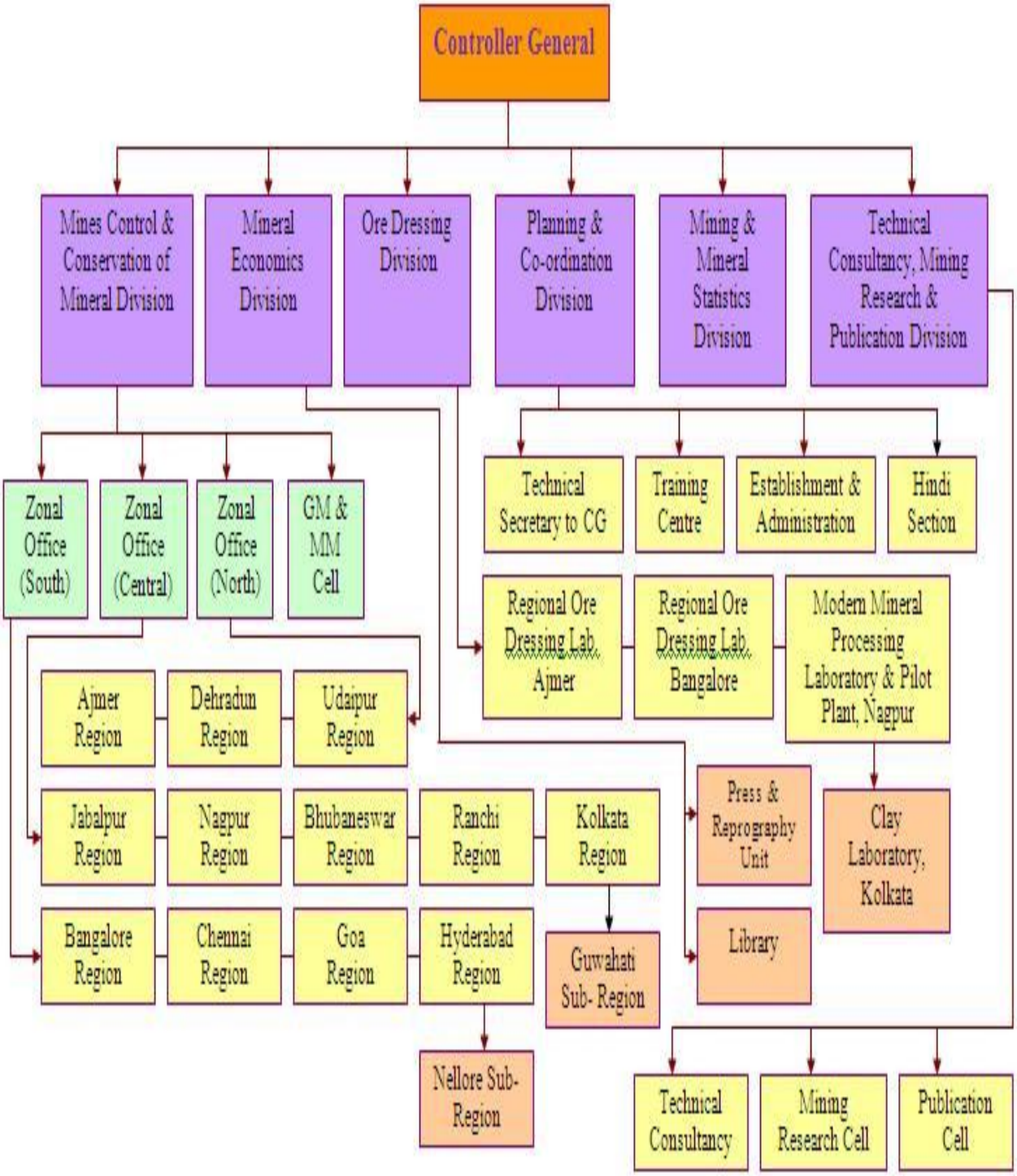


Present organizational structure of IBM

MINERALS DEVELOPMENT AND REGULATION DIVISION

The Minerals Development and Regulation (MDR) Division is the primary wing of the IBM and is responsible for conservation, systematic and sustainable development of mineral resources of the country and protection of mines' environment through statutory enforcement as well as promotional activities. It is headed by the Chief Controller of Mines at the headquarters. There are 3 Zonal Offices located at Ajmer, Bengaluru and Nagpur and 12 Regional Offices and two Sub-Regional Offices (see para 2.5 and Map). The Zonal Office is headed by a Controller of Mines and Regional Office by a Regional Controller of Mines. The Chief Controller of Mines is assisted by the Chief Mining Geologist. Geological Mapping and Mineral Map Cell is headed by Chief Mining Geologist and is under the overall supervision of Chief Controller of Mines.

3.2 The Division carries out the following activities:

- Inspection of mines for enforcing Mineral Conservation and Development Rules, 1988.
- Approval of Mining Plans/ Schemes of Mining/ Mine Closure Plans under Mineral Concession Rules 1960, and Mineral Conservation and Development Rules, 1988.
- Granting recognition to the scientific and technical persons to work as Recognized Qualified Persons (RQPs) for the preparation of the statutory mining plans / Scheme of Mining / Final Mine Closure Plans.
- Conducting Regional Mining Geological Studies.
- Holding 'Mines Environment and Mineral Conservation Week' at different mining centers.
- Preparation of Mineral Maps along with forest overlays.
- Revision/updating of National Mineral Inventory of major minerals under private lease holds.
- Administration of Offshore Areas Minerals (Development & Regulation) Act 2002 & Offshore Areas Mineral Concession Rules, 2006.
- Attending Parliament Questions and Ministry References.

Inspection of Mines

3.3 During the year 2014-15, IBM carried out 2,427 inspections of mines (including 1071 inspections for examining mining plans/schemes of mining/ mine closure plans) to administer various statutory provisions of Mineral Conservation and Development Rules, 1988 in following States as listed below :

Sl. No.	State	Inspection	
		MCDR	Mining Plan/ Scheme of Mining/ Mine Closure Plans
1	Andhra Pradesh	93	204
2	Assam	1	2
3	Bihar	3	25
4	Chhattisgarh	63	17
5	Goa	1	6
6	Gujrat	55	67
7	Haryana	0	3
8	Himachal Pradesh	3	40
9	J & K	0	0
10	Jharkhand	65	162
11	Karnataka	90	187
12	Kerala	8	41
13	Madhya Pradesh	196	59
14	Maharashtra	29	48
15	Manipur	0	4
16	Meghalaya	5	11
17	Orissa	56	115
18	Punjab	0	0
19	Rajasthan	244	132
20	Sikkim	0	0

21	Tamil Nadu	120	108
22	Telangana	8	65
23	Uttaranchal	16	41
24	Uttar Pradesh	13	0
25	West Bengal	2	19
	Total	1071	1356
	Grand Total	2427	

Year wise details of target and achievement of inspection of mines for enforcement of MCDR 1988 and for approving mining plans during last 5 years are shown in Figure 3.1

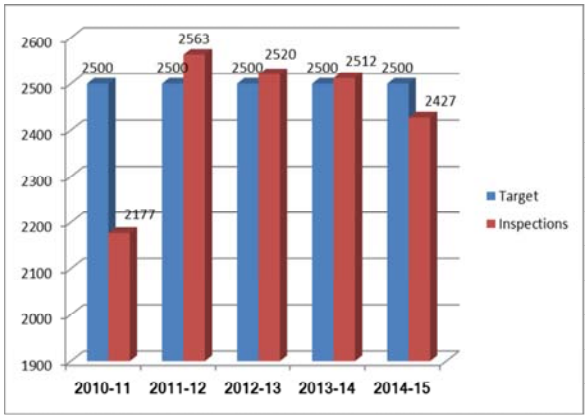


Figure 3.1

3.4 During inspections/studies, IBM advised the mine owners on adoption of appropriate technology for prospecting and mining; offered suggestions to ensure systematic mining; and guided for utilisation of low grade minerals and rejects and if not found feasible for the present, were advised to stack them separately for future use. On receipt of stoping notices, mines were inspected in detail to examine the scope for further development, feasibility of improved methods for stoping and other ancillary aspects. Environmental problems during and after cessation of mining activities were taken care of. Suitable advices were given to mine owners so that the environmental pollution due to mining could be properly managed by taking appropriate abatement measures.

Mining Plans

3.5 During 2014-15, a total of 332 mining plans were received of which 31 were withdrawn by the parties. Of the mining plans received during 2014-15 and also those received/under processing prior to this period, 255 were approved and 102 were not approved during the year.

From the time of introduction of the mining plan in the year 1988 up to March 2015, a total of 16,419 mining plans were received. Out of these, 13,378 mining plans were approved, 1,781 were not approved, 1,109 were withdrawn by the parties, 29 were pending with the parties for modification and 122 were at different stages of processing at IBM.

The status of disposal of Mining Plans during last 5 years is shown in Figure 3.2

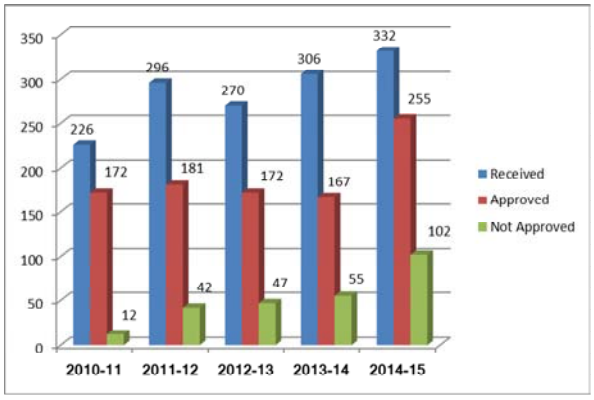


Figure 3.2

Schemes of Mining

3.6 During the year, 707 Schemes of Mining were received of which 75 were withdrawn by the parties. Of the schemes received during 2014-15 and also those received prior to this period, 485 schemes were approved and 169 were not approved during the year.

Since the introduction of Scheme of Mining up to March 2015, 8,014 Schemes

of Mining were received under Rule 12 of MCDR 1988. Out of these, 5,828 Schemes were approved, 1,366 were not approved, 380 were withdrawn by the parties, 111 were pending with parties for modification, and 329 were at different stages of processing at IBM. The status of disposal of Schemes of Mining during last 5 years shown in Figure 3.3

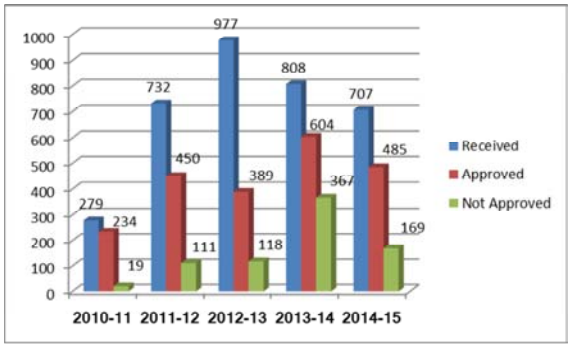


Figure 3.3

Mine Closure Plans

3.7 Mining operations are to be carried out as per the approved mining plan and after extraction of minerals, the mines are required to be reclaimed as per an approved Mine Closure plan. To ensure that the lessee completes the work of mine closure as approved for his mine, he has to submit a valid financial assurance in the form of encashable bank guarantee. So far up to 31 March 2015, Financial Bank Guarantees for a value of Rs.1982.60 million (excluding expired Financial Bank Guarantee) have been collected for valid PMCP/ FMCP's and after fulfilling the requirements of the FMCP, certificates under rule 29 A of MCR 1960 have been issued for 94 cases of partial or full surrender of lease.

During the year, 47 Final Mine Closure Plans (FMCPs) were received. Of the plans received during 2014-15 and also those received prior to this period, 20 plans were approved and 12 were not approved during the year.

Since the introduction of FMCPs up to March 2015, 422 plans were received. Out of these, 294 were approved, 62 were not approved, 31 were withdrawn by the parties, 12 were pending with parties for modification, and 23 were at different stages of processing at IBM. Cumulative status of disposal of FMCP is shown in Figure 3.4

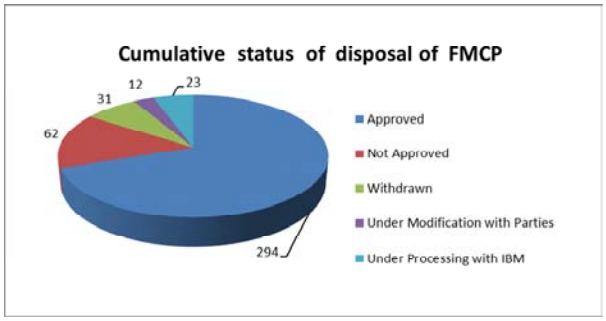


Figure 3.4

Mining Plan Grievances Committee (MPGC)

3.8 The Mining Plan Grievances Committees for the redressal of grievances of entrepreneurs in dealing with IBM for approval of mining plans, constituted in each region comprise representatives of mine owners, RQPs, State Directorates of Geology and Mining, and the Controller of Mines, IBM of the concerned Zone as Chairman. All the MPGCs continued their activities and except Dehradun & Udaipur Regions, other Regions held meetings during the reporting year.

Grant/Renewal of Recognized Qualified Persons (RQPs)

3.9 Under Rule 22C of Mineral Concession Rules 1960, competent authorities of IBM have been delegated powers to grant/renew recognitions to qualified persons to prepare mining plan. During 2014-15, 135 recognitions were granted, 24 renewed and 15 refused.

A total 3,174 recognitions have been granted so far out of which 1146 were valid, on the IBM's record, as on March 2015.

Meeting with RQPs

3.10 During 2014-15, IBM held meetings with the RQPs at the following places with an objective to provide guidance regarding problems faced by them in preparation of mining plans:

Sl. No.	Region/ Venue	Date	No. of RQPs participated
	CENTRAL ZONE		
1	Ranchi	21.03.2015	13
2	Jabalpur	12.03.2015	23
3	Nagpur	10.03.2015	45
4	Kolkota	24-03-2015	23
5	Bhubaneswar	16.05.2015	37
	NORTH ZONE		
6	Ajmer	28.11.2014	28
7	Dehradun	14.07.2014	11
8	Udaipur	19.12.2014	22
	SOUTH ZONE		
9	Chennai	17.03.2015	28
10	Hyderabad	02.01.2015	56
11	Goa	22.12.2014	86
12	Bangalore	13.01.2014	11
Total number of RQP's participated in Meetings			**383**

Administration of MCDR, 1988

3.11 While discharging the statutory function of enforcing administration of Mineral Conservation and Development Rules, 1988, during 2014-15, **3724** violations of different rules and sub-rules were pointed out in respect of **1321** mines and were further followed up for their rectification. A summarized account of status of enforcement of MCDR is tabulated below:

Sr.No	Aspect	No.
1.	Violations pointed out for various Rules & Sub-rules.	**3724**
2.	Mines for which violations pointed out.	1321
3.	No. Violations rectified	986
4.	Show cause notices issued	598
5.	No. of violations rectified after issue of show cause notices	769
6.	Court cases launched	78
7.	a) Cases compounded b) Total fee received	2 Rs. 12,000/-
8.	a) Cases decided in favour of IBM b) Fine imposed c) Cased dropped	25 Rs. 5,51,000 07
9.	No. of mines where, a) Mining operations suspended b) Suspension orders revoked	 357 152

3.12 Principal violations pointed out under MCDR, 1988 during mine inspections are given below:

Rule No.	Subject	No. of violations pointed out
	Chapter III Mining Operations (Rule No. 9 to 26)	
12(3)	Submission of scheme of mining.	345
13(1)	Mining operations in accordance with mining plans	603
22(1)	Notice of opening of mine	38
23B(2)	Submission of progressive mine closure plan	30
23E(2)	Responsibility of the holder of mining lease to submit yearly report	227
23F(1)	Financial assurance	32
23F(3)	Financial assurance	158
24	Notice of temporary discontinuance of mining operations	103
	Others under Chap. III	230
	Chapter IV Plans & Sections (Rule No. 27 to 30)	
27(4)	Maintenance of plans and sections	86
29	Copies of plans and sections to be submitted	77
	Others under Chap. IV	10
	Chapter V Environment (Rule No. 31 to 41)	

31	Protection of environment	3
33(2)	Storage of overburden, waste rock, etc.	11
	Others under Chap. V	19
	Chapter VI Employment of Qualified Persons (Rule No. 42 to 44)	
42(1)(c)(i)	Employment of Whole time Mining Engineer/Geologist	146
42(1)(c)(ii)	Employment of Part time Mining Engineer/Geologist	100
	Others under Chap. VI	25
	Chapter VII Notices & Returns(Rule No. 45 to 53)	
45(1)	Submission of returns	10
45(5)(a)	Submission of Monthly Return	556
45(5)(b)	Submission of Annual Return	712
	Others under Chap. VII	203
Total		**3724**

Disposal of Applications for Grant of Permission under MCDR, 1988

3.13 Details of applications disposed off during 2014-15 for grant of permission under MCDR, 1988 are given below :

Sl. No	Subject	No of cases in which permission	
		Granted	Refused
1	Stoping (Rule 26)	32	Nil
2	Preparation of plans & sections of Mine working (Rule 27)	25	02

3.14 Significant Results of Inspections & Studies

Scientific development of mines:

1. Consequent upon the inspection of Deogiri Iron and Manganese ore mines on 9th and 10th of August 2014 by the COM(SZ) accompanied by SgMG, the following suggestions were offered.

i) On examination of the result of exploratory drilling carried out over the potential areas of manganese mineralization as per UNFC norms indicate that entire configuration of manganese ore pockets, lenses etc were not deciphered. To overcome the situation it was suggested to drill infill boreholes on either side of positive boreholes to establish the lateral and depth continuity of ore body. While observing the huge excavation ratio of ore to overburden of 1:20 to 40, infilling bore holes are felt essential to optimize the mining operation in a more scientific, economic and sustainable manner.

ii) To have a permanent or quasi permanent binding of OB dump slopes, it was suggested that suitable deep rooted soil binding species may be planted as a long lasting solution along with present practice of sowing Hemata grass seed over the coir mat etc. It was advised to prefer certain seed /saplings which are not only fast growing but also having regeneration nature in dump slopes like Gravaliya Teredofolia an Australian variety.

M/s SMIORE vide their letter No. MN:ED(M):2349 dated 30.9.2014 has informed that the company will implement the above suggestions / recommendation viz., (i) to drill infill boreholes on either side of positive boreholes to establish the lateral and depth continuity of ore body thus to optimize the mining operation in a more scientific economic and sustainable manner and (ii) on dump slopes they will plant saplings which are not only fast growing but also having regeneration nature like Gravalia Teredofolia an Australian variety.

2. Consequent upon MCDR inspection dated 6.6.2014 carried out by Sri P S Hegde SMG, the violation letter was issued to M/s Chowgule and Co Pvt Ltd in respect of their Karadikolla iron ore mine (ML No. 2546) situated in Bellary district of Karnataka for violation of Rule 33(2) of MCDR 1988 stating that the check dams at toe of dump (No.

–ID-3 at South Block) were filled with silt and the same should be de-silted as well as properly secured to prevent to escape of material therefrom. Subsequently, the party has de-silted the check dams at toe of dump and submitted the photographs as documentary proof on.7.7.2014. This is one of the steps to prevent the escape of dump material which causes the degradation of environment.

3. Consequent to MCDR inspection dated 4.6.2014 carried out by Sri PS Hegde, SMG, the violation letter was issued to M/s P Balasubba Setty and Sons in respect of their Karadikola Suresh Iron ore Mine (ML N. 2502) situated in Bellary district of Karnataka State for violation of Rule 13(1) of MCDR 1988 stating that the proposed retaining wall and garland drain at toe of active dump was not constructed as proposed in the approved Modified Scheme of mining. Subsequently, the party had constructed proposed 175 m retaining wall and 190 m garland drain at toe of active dump and submitted the photographs as documentary proof in 10/2014. This is one of the steps to prevent the escape of dump material which causes the degradation of environment.

Measures for Abatement of Pollution and Environmental Protection

3.15 While approving the mining plans, schemes 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. IBM also ensures that mining operations are carried out in accordance with the approved mining plan/scheme of mining.

As a result of follow up for implementation of EMP, extensive afforestation has been undertaken in the mines by the mine owners. During the year 2014-15, about 2.54 million saplings have been planted over an area of 1893 hects. in and around mine areas. Thus, so far, 110 million saplings have been planted over an area of about 44,829 hects. with a survival rate of 67.76 percent.

Simultaneous reclamation in working mines, and reclamation of abandoned mines are required to be carried out wherever it is feasible. During the year 2014-15, simultaneous reclamation / rehabilitation is going on in 480 working mines covering an area of about 795 hects, taking the cumulative figure for an area of about 16,286 hects. So far, 92 abandoned mines covering an area of 1030 hects. have been reclaimed/ rehabilitated.

Mines Environment and Mineral Conservation Week

3.16 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 MEMC week held under the aegis of different Regional offices of IBM during 2014-15, in which a total of 1065 mines participated, are given below:

REGION	Period	No of Mines participated
CENTRALZONE		
Ranchi	08.02.2015 to 14.02.2015	51

Jabalpur	09.02.2015 to 15.02.2015	103
Nagpur	10.11.2014 to 23.11.2014	67
Kolkota	02.02.2015 to 08.02.2015	44
Kolkata (Guwahati Sub-Region)	09.02.2015 to 15.02.2015	16
Bhubaneshwar	27.01.2015 to 02.02.2015	73
NORTH ZONE		
Ajmer	24.02.2015 to 02.03.2015	39
Dehradun	09.02.2015 to 15.02.2015	59
Udaipur/ Rajasthan	04.02.2015 to 10.02.2015	115
Udaipur /Gujarat	07.02.2015 to 08.02.2015	75
SOUTH ZONE		
Chennai (NZ)	02.02.2015 to 14.02.2014	160
Hyderabad	15.12.2014 to 21.12.2014	100
Goa	08.12.2014 to 12.12.214	63
Bangalore (Karnataka)	09.02.2015 to 14.02.2015	66
Bangalore (Kerala)	05.01.2015 to 10.01.2015	34
TOTAL MINES PARTICIPATED in MEMC WEEK		**1065**

The celebration of MEMC Weeks continued to receive wide publicity and popularity. It is happy state of affairs that a positive response towards mineral conservation and protection of mine environment has been noticed, particularly in mechanised mines. A healthy sign has also been observed amongst small mine owners towards achieving the goal of conserving mineral and protecting the mines environment.

Grant of Exploration Licence in Off-shore Areas

3.17 The Offshore Areas Mineral (Development and Regulation) Act, 2002 and the Offshore Areas Mineral Concession Rules, 2006 came into force with effect from 15.01.2010. The Controller General, IBM has been notified as Administering Authority as well as authorised officer for the purpose of the Offshore Areas Mineral (Development and Regulation) Act, 2002 vide order dated 11.02.2010. Subsequently, the Controller General & Administering Authority vide notification dated 07.06.2010 has notified total 63 blocks (26 mineral bearing Offshore blocks in Bay of Bengal and 37 mineral bearing Offshore blocks in Arabian Sea). In response to the above notification, total 377 applications were received from 53 applicants till the last date, i.e. 14.09.2010 stipulated for the purpose. Based on the recommendations of the Screening Committee, Exploration Licences were granted to 16 applicants for 62 mineral bearing blocks in the offshore waters of Bay of Bengal and Arabian Sea on 5th April 2011. Block No. 3 and 32 of Arabian Sea were having identical bounding latitudes and longitudes and therefore were recommended and granted as one block, i.e. Block No. 3. Draft of corrigendum for deletion of Block No. 32 (published in the notification dated 07.06.2010) has been sent to Ministry for approval on 03.03.2014.

So far, these exploration licences have not been executed due to pending litigation.

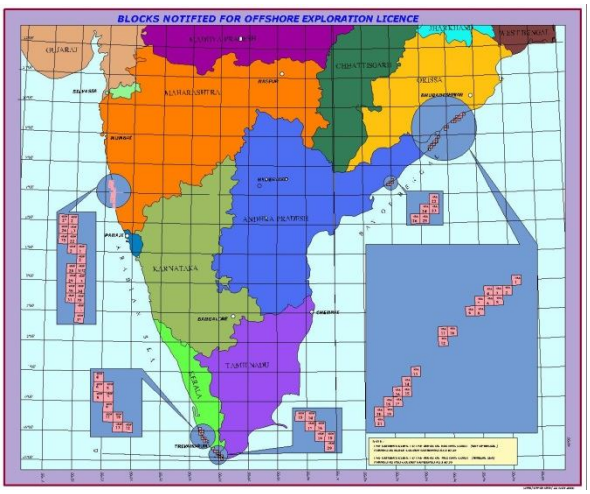


Figure 3.5 : Mineral bearing blocks in Offshore areas

Mineral Concession Approval System (MCAS)

3.18 The Web based Mineral Concession Approval System is operational in the Ministry of Mines and is being used to monitor the progress of applications received in the Ministry, recommended by the State Governments in favour of a particular applicant in respect of RP, PL, ML for major minerals specified in the first schedule of MMDR Act, 1957. The system is being extended to capture the post approval activities.

Measures to Curb Illegal Mining

3.19 While the issue of prevention of illegal mining is not covered within the functioning of IBM, it has been associated with state government and its law enforcement agencies in efforts of curbing the illegal mining activities.

The Ministry of Mines have formulated a three-pronged strategy for prevention of illegal mining viz. constitution of Task Force by the state government at State and District Level having a representative of IBM, framing of rules under Section 23C of the MMDR Act, 1957 and furnishing of quarterly returns on illegal mining for review by the Central Government.

With rigorous follow-up made by IBM with various State Govt(s)., all together, 22 State Governments have constituted Task Force namely, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Manipur, Mizoram, Nagaland, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttarakhand, Uttar Pradesh & West Bengal and 20 states have framed the rules under section 23C of MMDR Act 1957 namely Andhra Pradesh, Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand & West Bengal so far. The function of the Task force is to review the action taken by member departments for checking the illegal mining activities in their respective jurisdiction. Further, whenever IBM detects illegal mining during the course of routine MCDR inspection, the same is reported to the State Govt. concerned to take suitable action and report the compliance to IBM.

The Ministry of Mines has directed the state governments to conduct special drive to increase awareness on the issue of illegal mining by organising “Pakhwara’ (Fortnight Programme) in liaison with the office of IBM in the state. Accordingly, IBM has initiated the action on the matter and nominated one officer each from the regional offices of IBM for the event.

Besides, IBM has nominated Nodal Officers for every zonal/regional offices to look after all the work of prevention of illegal mining activities in the respective regions/states mainly for surfacial deposits of major and minor minerals. They will co-ordinate with the state governments for timely submission of quarterly returns on illegal mining; liasoning with state govt. for framing of rules under section 23 C of MMDR Act 1957 and constitution of task force; participation in the regular task force meetings, coordination in organizing Pakhwara for prevention of illegal mining; attending all the references pertaining to illegal mining and submission of report/comments thereof, referring the cases of illegal mining noticed during MCDR inspections to the state govt. and action taken by the state govt. and other related issues.

In compliance of the direction of the Ministry, IBM has constituted Special Task Forces for inspection of mines in endemic areas by taking help of Satellite

imageries. The Task Force inspections were conducted during the period from December 2009 to March, 2014 in the States of Andhra Pradesh, Chhattisgarh, Goa, Gujarat, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan and Tamilnadu. In all 658 mines comprising minerals like iron ore, manganese ore, dolomite, limestone, bauxite etc. were inspected by the Task Force.

Mining operations were suspended in 209 mines under rule 13(2) of MCDR, 1988. Suspension orders were subsequently revoked in 133 mines after ensuring rectification of violation(s). In 18 cases (Gujarat-02, Karnataka-08, Madhya Pradesh-02, Jharkhand-02, Maharashtra-01 and Odisha -03) recommendation to terminate the leases under rule 27(1) (u) and 27 (5) of MCR 1960 have been communicated to the concerned State Governments.

During the year 2014-15, 19 state governments have submitted the quarterly returns on illegal mining up to the quarter ending March, 2015. An annualised quarterly return on illegal mining for the year 2014-15 is given as **Annexure IX.**

The Ministry of Mines has further directed all the state governments to start the process of registration of end users, constitution of Special Cell in State Police, use of satellite imagery to track down illegal mining, hologram-marking / bar-coding of transport permit etc. The state governments are also planning to set up special camp at sites and deployment of Boarder Home Guards in the areas where there have been complaints about illegal mining.

Implementation of amended Rule 45 of Mineral Conservation and Development Rules 1988

3.20 To handle the problems of illegal mining the Central Government has taken steps to keep accounts of mineral flow from mine to end. Therefore, the Government of India has notified amendment in Rule 45 of Mineral Conservation and Development Rules, 1988, vide G.S. R. No. 75(E) published in Part-II, Section-3, Sub-Section (i) of the Gazette of India Extraordinary dated, 9th February, 2011, which stipulates mandatory registration of miners, stockists, traders, exporters, and end-users of minerals, and stringent reporting norms for ensuring end-to-end accounting of the mineral produced. In this system it is mandatory for the miners, traders, exporters, and end-users of the minerals to send a copy of the reports to State Governments also. The State Governments have also been advised to ensure that any automation in the reporting system developed at the State levels should be compliant with the amended Rule 45 of the MCDR. Accordingly, IBM in association with NIC has developed online registration forms and statutory monthly and annual returns forms. The on-line reporting system is linked to on-line registration system.

Monthly Returns (Form F1 to F8) and Annual Returns (Form H1 to H8) have been made operational. IBM is receiving the returns online through this system

Complete switchover to online submission of returns would help ensuring effective data collection, increasing the coverage of mines and faster collection and compilation of information and to bring out in time various statistical publications.

The on-line registration system has already commenced in the IBM and so far up to March, 2015, 8975 lease holders, 4601 traders, 804 exporters, 1543 stockiest and 3041 end-users have registered their details.

Broadly the reporting system is divided into two parts. Part-I covers the

general information in addition to the employment details. Part-II of the monthly reporting system deals with the grade wise production, dispatches, stock and justification for increase/decrease of production and sale price of minerals. The Part-II of reporting system requires the registration number of the consignee and purpose of sale whether for domestic consumption or export and in case of domestic consumption whether it is made for captive consumption / sale / transfer.

In order to facilitate tracking of mineral from mine to end-use, the reporting system requires indicating the registration number of supplier from whom the mineral is procured. The reporting system will have details of approved mining plan production proposals to compare the same with the actual production from the mine. All the State Government will be able to access the system to check the data reported in the returns and can initiate action in case of wrong reporting of data, evasion of royalty, etc.

The amended Rule 45 of MCDR, 1988 specifies the penal action against defaulting mine owners and empowers the Central Government to order for suspension of all mining operations and may revoke the order of suspension after ensuring proper compliance, take action to initiate prosecution and recommend for termination of mining lease. The Rule further specifies that in case of defaulters engaged in trading or storage or end use or export of minerals, the State Government is empowered to order for suspension of trading license, all transport permits issued, storage license for stocking minerals and permits of end use industry, etc. In future, the system will be linked to Railways and Ports Authorities to check the correctness of the reporting made under the Rule for which a separate project/scheme has been proposed by IBM.

Website

3.21 A Web Portal of IBM as per the guidelines of Government of India was designed by National Informatics Centre (NIC) and hosted on its server In July, 2010 at ***www.ibm.gov.in*****.** Information regarding IBM's history, functions, organization, divisions of IBM and its activities, jurisdiction of regional & zonal offices, services offered by IBM, Mining Plans – guidelines / formats / circulars thereof, RQPs - guidelines / formats thereof, UNFC guidelines, Mining Laws, Mineral Information like mineral reserves, value, royalty and dead rent, details of reconnaissance permits, threshold values, notices & returns under MCDR,1988 Mining Leases distribution data, Indian Mineral Year Books, Bulletin of Mining Leases & Prospecting Licenses, Bulletins of Mineral Information, Offshore Mineral Concession Rules, Notification & Form G thereof, Tenders, RTI information, Photo gallery, etc., have been displayed on the web portal. There is also provision for online submission of vigilance complaints and Grievances.

As assured to the Third Subcommittee of Parliament on Official Language Committee on 18.10.2012 at Udaipur, the bilingual website of IBM is operational from 15th January, 2015 onwards.

Online Register of Mining Tenements System (MTS)

3.22 A scheme on Computerized Online Register of Mining Tenements system was taken up by the IBM during the programme year 2009-10.

The objective of the Scheme is to develop an online National Mineral Information System for investors by linking Central and State organizations engaged in administration of mineral resources in the country. The project comprised of GIS and Registry parts.

The MTS has been envisaged by the Government to automate the various processes associated with the mineral concession regime. This would not only give an impetus to the decision making process but is also expected to meet the ends of transparency and openness. It is envisaged that MTS will not only enable online filing of applications but it will also be possible to identify online the areas for various types of mineral concessions. This would involve integration of web based technology services with Geographical Information System (GIS), so that information could be shown spatially in the form of maps. IBM has been nominated by the Ministry as the Nodal Implementing Agency for the project.

A detailed consultative meeting with the States, NIC and IBM was held on 20.9.2012 to solicit their views on draft DPR submitted by the consultant and implementation issues. Accordingly provisions for IT manpower and hardware support to the States and technical manpower support to IBM were included in the DPR. Thereafter the DPR was endorsed by the Central Co-ordination-cum-Empowered Committee (CEC) and finally approved by the core committee of MTS in its meeting on 31.10.2012.

M/s Ernst & Young Pvt. Ltd. has prepared Request for Proposal (RFP) as per approved DPR.

The Ministry of Mines vide office memorandum No. 37/5/2004-Vol.III (Pt.) dated 13th August 2013, constituted Technical Evaluation committee (TEC), for selection of system integrator, finalisation of tender document and evaluation of tender document.

The SFC for the project on Mining Tenement System was approved on 29th August 2013 by the SFC committee under the chairmanship of the Secretary (Mines) at the Ministry of Mines.

The approved RFP was hosted on CPP portal and IBM website on 03.12.2013.

As scheduled, the tender opening process started under the chairmanship of the IBM tender opening committee on 17th February, 2014 at 15.30 hours. After opening the bids in tender box of IBM and CPP Portal it was found that IBM did not receive any bid in the form of hard copy or soft copy from any of the bidders.

On the basis of representations received from various companies regarding inclusion of the Limitation of Liability clause, other requirements, TEC Meetings for the same and in consultation with ministry, the revised RFP was again floated on 08.07.2014 in CPP Portal and IBM Website. After giving sufficient time by floating corrigendum's for bid submission, only single party has responded for the bid on 13.11.2014 and according to Rule 169 of GFR, 2005 the EMD as received from M/S Wipro ltd as well as soft copy of the bid in CPP portal has also not been opened as advised by consultant E & Y.

TEC Meetings were held to discuss, agree and finalize the new draft RFP and forwarded to Ministry for approval. On 15.01.2015, Ministry has conveyed in principle approval of new RFP on which Controller General, IBM is authorized to make requisite changes to make it in line with the MMDR, Amendment Ordinance 2015 and further course of action in this regard is in progress.

As part of the project, MoUs with respective State Governments, who are involved in the first phase of the system, viz. State Governments of Andhra Pradesh, Chhattisgarh, Madhya Pradesh, Goa, Karnataka, Kerala, Gujarat, Jharkhand,

Maharashtra, Odisha, Rajasthan and Tamilnadu have signed the MoU with IBM for MTS implementation.

The Project will be implemented in three phases. In phase I, the registry component of Central Database will be developed covering aspect of registration, returns, revision, inspection, mining plan approval and mine closure plan approval. The state specific registry components would be developed in phase II and phase III will be devoted for GIS component. Some parts of GIS components can be taken up simultaneously along with development of Phase I and Phase II.

Umbrella software will be developed for all States. The project will be implemented by adopting the cafeteria approach wherein the system is developed for pilot locations and latter other States are free to choose the software package as per their requirements. As per the individual need and strategy of each State, the services can be opted and payment can be done for the limited package opted by the State.

Taking over the Possession of Kudremukh Iron Ore Mine

3.23 In compliance to the directions of Hon'ble Supreme Court dated 15.12.2006 given in the Case No. IA No. 1150 in IA No. 1010 with IA 1458 in IA 1010 in IA 670 in WP No. 202/1995, Shri Ram Mohan, RCOM, IBM, Bengaluru has been nominated as Designated Officer by the Ministry of Mines vide letter No. 11/9/2013-M.VI, dated 07.02.2014 with instructions to take possession of the Kudremukh Iron Ore Mine of M/s Kudremukh Iron Ore Co. Ltd. (KIOCL) along with visit to the mine area and to submit a status report regarding further course of action to be taken. Accordingly, a visit was carried out on 26 & 27 March, 2014 by a team comprising of RCOM, IBM, Bengaluru, representatives of various departments of Government of Karnataka namely Pollution Control Board, Forest Department, Department of Mines & Geology and officials of M/s KIOCL. Based on the site visit a status report has been prepared. The possession of the mine (ML No. 909) over an area of 4605 hectares in Aroli Range, Bhadra State Forest, Taluka Mudigere, District Chickmagalur (Karnataka) has been taken over by Shri Ram Mohan, RCOM, IBM, Bengaluru as Designated Officer from Shri N. Vidyananda, Director (Production & Projects), M/s KIOCL, the nominated owner under section 76 of Mines Act, 1952, on 03 April, 2014 with certain conditions. The status report along with other details in this regard has been forwarded to the Ministry of Mines by RCOM, IBM, Bengaluru vide letter No. 279/300/91/2014/BNG/467, dated 04.04.2014.

Standard Operating Procedures (SOPs) for curbing illegal mining activities.

3.24 In persuasion to minutes of Coordination-cum-Empowered Committee (CCEC) meeting held on 15.05.2014 a Committee was constituted under convener-ship of Shri R.K.Sinha, Controller of Mines (CZ), IBM for preparation of manual of Standard Operating Procedures (SOPs) for curbing illegal mining activities. After obtaining valuable inputs from State Governments on measures taken to curb illegal mining in their respective State and also addressing the issues related to implementation of rules framed under Section 23 (C) of MMDR Act, 1957 for curbing illegal mining activities, Manual of Standard Operating Procedures (SOP) to curb Illegal Mining has been prepared in September, 2014.

Sustainable Development Framework

3.25 In order to facilitate the scientific development and exploration of mineral resources and to ensure the protection of the environment and prevention and control of pollution from prospecting and mining related operations, Ministry of Mines, Government of India developed a National Sustainable Development Framework (SDF) in consultation with the State Governments.

As a part of roll-out of SDF, the detailing of measurable indicators of the system along with practicality of the implementation agencies/stakeholders is proposed to be tested in pilot projects in the States of Jharkhand and Madhya Pradesh. To initiate a pilot project, a Committee constituted under the chairmanship of Shri Ranjan Sahai, Controller of Mines, IBM has devised templates for validation at mine sites. Ministry vide e-mail dated 21.08.2014 has communicated modifications required in the templates in the light of major dimension of SDF frame work, sub-criterion/ sub dimensions and identification of measurable terms etc. The same are attended and modified templates are under consideration of Ministry.

Visit of Committee Constituted to Enquire into the Existing System of Grant of Approval/Modifications of Mining Plan by IBM.

3.26 Ministry of Mines Vide O.M. No.16/48/2014-M.VI dated 21st July, 2014 constituted a Committee to inquire into the existing system of grant of approvals / modifications of mining plan by IBM under the chairmanship of Shri R.K.Sachdeva, Former Adviser, Ministry of Coal. The second meeting of the committee was held at IBM headquarters Nagpur on 27 August, 2014 in which besides chairman, S/Shri Prabhakar Tripathi, Ex-CMD, NMDC & Member, S. B. S. Chauhan, Formerly DS, Ministry of Mines & Member, and Shersha, Director, Ministry of Mines & Member Secretary were present. From IBM side, Shri K.Thomas, Controller General in charge IBM along with S/Shri Ranjan Sahai, COM, P.N. Sharma, RCOM and Abhay Agrwal, DCOM & TS participated.

During the meeting the existing system in place in IBM for granting approvals of mining plans and for modifications of mining plans/scheme of mining, etc. were reviewed. Detailed discussions were also held on the various provisions of MMDR Act and rules made thereunder pertaining to the approvals of Mining Plans/Scheme of Mining/Progressive Mine Closure Plans, etc. Few approved documents of Mining Plans/Scheme of Mining for various categories of mines were also looked into for understanding the theme of the document. The committee further deliberated on various issues emerging out of the note/information provided by the Ministry of Mines and Regional Offices of IBM.

Third meeting of the Committee was held at Bhubaneshwar Regional Office, in September, 2014.

CHAPTER -IV
Geological mapping & Mineral Map Cell

Geological mapping & Mineral Map Cell is a part of MDR Division in IBM. It is headed by the Chief Mining Geologist (CMG). Being the functional head of Mining Geology discipline in IBM, CMG is responsible for formulating and monitoring of Annual Programme of the Mining Geologists of IBM. The cell imparts technical inputs in key policy issues on exploration& mining activities in the country.

GEOLOGICAL MAPPING CELL

4.2 The regular activities of Geological mapping cell include formulating Annual Programme for Mining Geologists, supervising the updation of National Mineral Inventory in respect of private leasehold deposits, inventorisation of Reconnaissance Permit and Prospecting Licences of the country, monitoring and inspecting Reconnaissance Permit areas, listing of Exploration agencies, implementation of UNFC for Resources and Threshold values of minerals, formulating notes for various sub committees of CGPB to oversee mineral exploration activities in the country in co-ordination with GSI, participating in Standing Committee on Promotional Projects for recommending promotional exploration activities of MECL etc. Geological mapping Cell provides inputs for replying ministry references on prior approval of grant of PL, relaxation in area for grant of PL, reservation of areas for exploration, etc.

Under the Offshore Areas Mineral (Development & Regulations) Act, 2002, IBM has been declared as Administering Authority. Offshore Cell is created in GM Cell to deal with the matters related to offshore exploration & mining activities, framing rules, guidelines etc.

Geological Mapping (G.M.) Cell is engaged in the scrutiny of updated NMI (as on 1.4.2010) for private sector leasehold mineral deposits received from various Regional Offices of IBM and also maintaining RP / PL database.

4.3 Achievement during the year 2014-15:

1) During the year, 90 schemes/ commencement / Annual Reports/ Final/ Relinquished/closure Reports were received from the RP holders which were scrutinized and documented for further follow-up action.
2) For administration of MCDR under Rule 3A to 3E of MCDR 1988 for RP licences seven RP inspections were carried out. For effective implementation of these rules, 8 violation letters were issued to RP holders for 17 violations. This has helped to regulate and streamline reports/returns/data submission from these RP holders. During the year 8 final/closure reports were submitted by RP holders.
3) Quarterly reports having list of Active RPs for the quarter ending March, June, September and December 2014 were furnished to the Ministry and also hoisted on IBM website. As on 31st March, 2015, out of 401 RPs covering an area of 5,17,644 sq.km., 387 RPs were relinquished/surrendered/ abandoned.
4) During the year, 24 PL inspections were carried out by the Mining Geologists of GM&MM Cell and 58 violations were pointed out for 22 PLs.

5) Data collection on quarterly basis from all the Regional Offices for inventorisation of PL areas was carried out. The data collected were compiled and the status of PL areas was quarterly uploaded on IBM website for the Quarter ending March, June, September and December 2014.
6) Intermediate updation of National Mineral Inventory as on 01.04.2013 in respect of Private Leasehold deposits were carried out during the year 2014-15 covering remaining 13 minerals, namely, Dolomite, Iron Ore (Magnetite), Magnesite, Fluorite, Graphite, Bauxite, Laterite, Manganese Ore, Corundum, Vanadium, Antimony, Nickel and Cobalt. A total of 1422 NMI sheets were updated for the Private Leasehold deposits from all the Regional Offices. These updated sheets were processed, scrutinized and sent to ME Division for further action.
7) Ministry references on the prior approval of grant of PL, relaxation in area for grant of PL and reservation of areas for exploration were also attended.Total 9 such ministry references were attended during the year.
8) 36 Parliament Questions received from CCOM Office and ME Division were attended and suitable replies/compiled data were provided to the respective divisions within time limit.
9) In co-ordination with GSI notes/action taken reports for meetings of CGPB and its subcommittees were prepared and the meetings were attended.
10) During the year various training programs were attended by the Mining Geologists of GM&MM Cell.
11) CMG/SgMG/RMG were nominated as Faculty Members to give lectures in various training programs on National Mineral Inventory, UNFC Classification, Mineral Exploration and MCDR Rules, etc.
12) To promote the participation of Private Exploration Agencies in mineral exploration work, list of Exploration Agencies was compiled by GM&MM Cell and hoisted on IBM Website. So far, 39 companies have been enlisted with IBM.

MINERAL MAP CELL

4.4 Mineral Map Cell is engaged in preparation of State wise Multi Mineral Leasehold Maps (MMLM) along with Forest Overlays as per the directives of National level committee consisting of Ministry of Mines (MOM) and Ministry of Environment and Forest (MOEF) in December, 2001. MMLM depicts distribution & disposition of mining leases of various minerals found in a region, along with other relevant details about infrastructure, physiography, resources, forest cover etc. An yearly target of preparation of 100 such maps was decided under Scheme No. 3 of IBM. MMLM is a geographic representation of the Mining Leases on Survey of India (SOI) toposheet on 1: 50,000 scale and involve superimposition of regional geology taken from Mineral Atlas of India, GSI Publication, 2001 (1:20,00,000 scale) and forest data from Forest Survey of India. These maps are being prepared using AUTOCAD software. Mineral Map Cell is equipped with AUTO CAD 2004, AUTO CAD MAP 2008, MICRO STATION V8 and GEOMEDIA PROFESSIONAL.IBM completed the work of preparation of such maps for entire India during the year 2011-12. Since 2012-13 onwards, updation of earlier prepared maps is being carried out.

These maps have been found useful for policy planners and to facilitate development of

mineral deposits. Besides, these maps also serve as authentic references for resolving mining and mineral related issues.

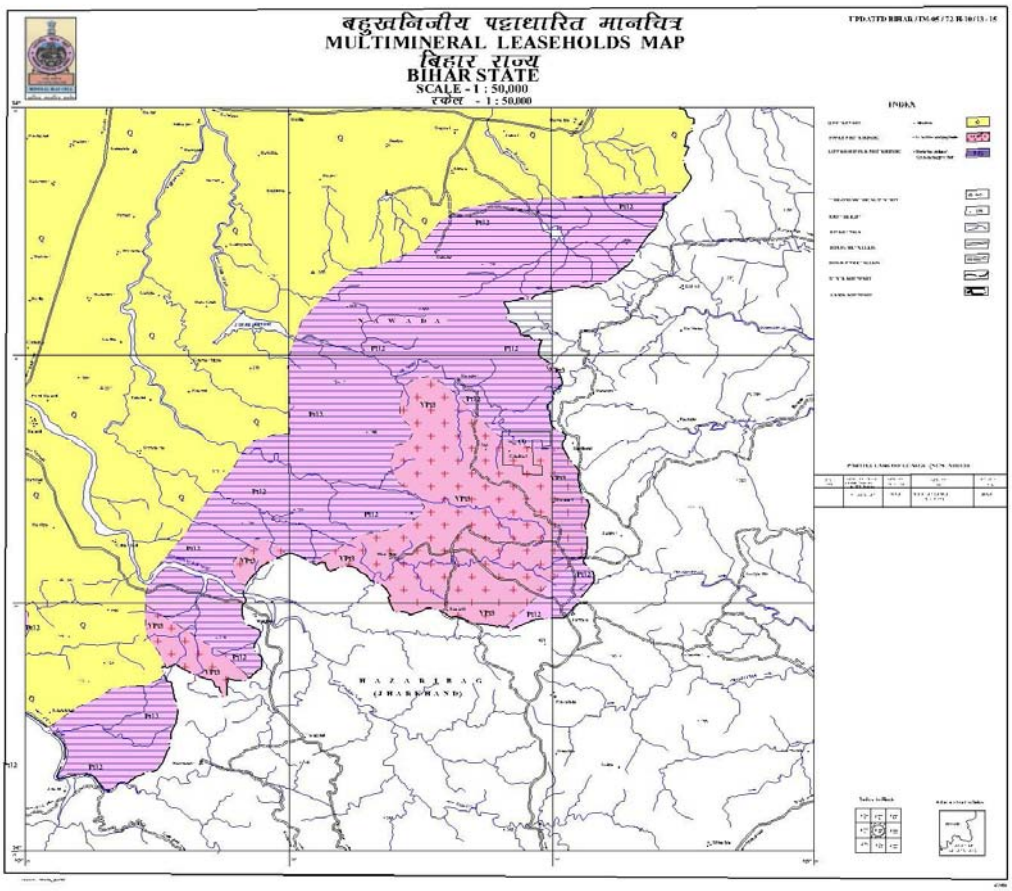
The various maps prepared by MM Cell are:

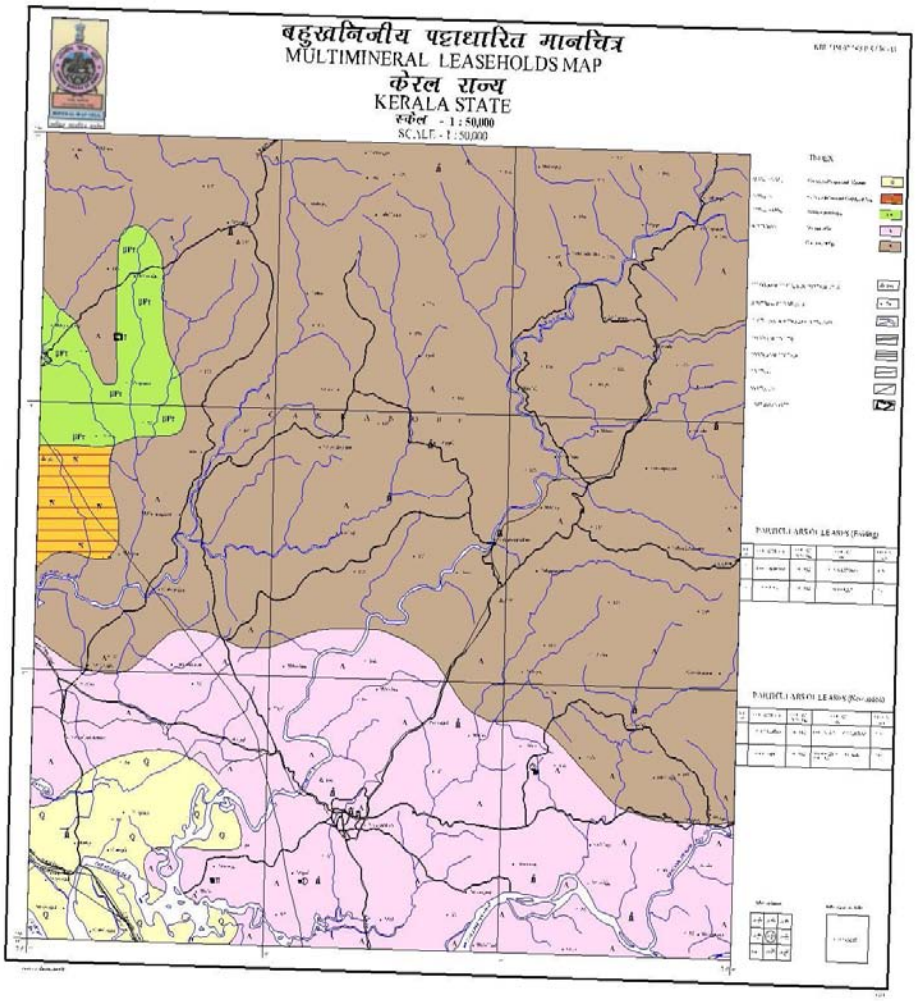
(i) **Index Map:** The index map incorporates the distribution of mining leases, regional geology, physiography and infrastructure available in the area. These maps are prepared on 1:50,000 scale.

(ii) **Forest Overlays:** The forest overlays are prepared for the corresponding index maps on 1:50,000 scale and they incorporate forest cover as obtained from Forest Survey of India (FSI).

Achievements

4.5 During 2014-15, 84 MMLM of Andhra Pradesh, 11 MMLM of Kerala and 5 MMLM of Bihar State totalling to 100 MMLM were updated alongwith corresponding forest overlays and collection of data for updation of MMLM of Tamil Nadu state was carried out for next years programme.




बहुखनिजीय पट्टाधारित मानचित्र
MULTIMINERAL LEASEHOLDS MAP
केरल राज्य
KERALA STATE
स्केल - 1 : 50,000
SCALE - 1 : 50,000

CHAPTER -V

ORE DRESSING DIVISION

The Ore Dressing Division undertakes test work on beneficiation of low grade ores and minerals to develop suitable process flow sheet on bench-laboratory scale and pilot plant scale. It has a Modern Mineral Processing Laboratory and Pilot Plant at Nagpur and two Regional Ore Dressing Laboratories at Ajmer and Bengaluru. Ore Dressing Division is headed by Director (Ore Dressing). The Modern Mineral Processing Laboratory and Pilot Plant at Nagpur is headed by Chief Ore Dressing Officer. The Regional Ore Dressing Laboratory and Pilot Plants at Ajmer and Bengluru are headed by Superintending Officer (Ore Dressing). This Division has a strong R&D base for mineral beneficiation and these studies are carried out on various low grades of ores/minerals, waste/rejects viz ferrous, non-ferrous, sulphide minerals and industrial minerals except atomic minerals on charge basis as well as on promotional basis, as a part of the conservation studies being carried out by the MCCM Division.

5.2 The Modern Mineral Processing Laboratory and Pilot Plant at Nagpur is well equipped with most sophisticated equipment and is regarded as “Centre of Excellence” in the field of Mineral Beneficiation. This is a core centre to cater to the needs of the country for beneficiation test work. The pilot plant has flexible capacity ranging from 0.5 to 2.0 tonnes/hour for conforming the process evolved in the laboratory as well as to generate additional data before commercial application and also to produce adequate quantity of concentrate, if needed, for end use testing.

Modern Mineral Processing Laboratory & Pilot Plant, Nagpur

5.3 The Analytical Laboratory located in the premises of Modern Mineral Processing Pilot Plant, houses the Chemical Laboratory, the Mineralogical laboratory and the Environmental Laboratory. The Environmental Laboratory is a recognized laboratory by the Central Pollution Board of Ministry of Environment & Forests (MoEF), Government of India.

5.4 The Bureau has region-wise facilities in mineral testing and beneficiation with regional ore dressing laboratory and pilot plants at Ajmer and Bengaluru which are also well equipped with sophisticated equipment. A ‘Clay Laboratory’ has also been established at Kolkata to cater to the needs of the north-eastern region exclusively.

5.5 The most important function of this Division is to conduct R&D work with an objective of developing a suitable process flow sheet for beneficiation of low grade ores and minerals for commercial application; chemical analyses by conventional as well as instrumental methods; mineralogical studies and physical characterization of ores and minerals and ore dressing products; preparation of pre-feasibility reports; in-plant studies and plant audit; environmental studies of mine waste effluents; trouble shooting jobs at site for commercial plants; and providing consultancy services in fields of mineral processing, chemical analyses and mineralogy. This Division also imparts training to the scientists of mining industry in the specialized fields of ore dressing.

Performance

5.6 During the year 2014-15, 55 ore dressing investigations, chemical analyses in respect of 41,483 radicals, 2,356 mineralogical examinations were carried out. Out of these achievements, 46% of the Ore Dressing Investigations were on promotional basis and the remaining were on charge basis. A revenue of ` 86,98,329/- was generated

during the year. Laboratory-wise break-up of work carried out and revenue generated is as follows:

Sl. No		UNIT								DIVISION		
		NAGPUR			AJMER			BANGALORE					
I. ORE DRESSING INVESTIGATIONS (Annual Target – 60 ODI)												
		FS	**LS**	**TOTAL**	**FS**	**LS**	**TOTAL**	**FS**	**LS**	**TOTAL**	**FS**	**LS**	**TOTAL**
Annual Target		**30**	**-**	**30**	**15**	**-**	**15**	**15**	**-**	**15**	**60**	**-**	**60**
1.	**Completed**	14	60	**74 (29.0)**	10	4	**14 (11.0)**	7	46	**53 (18.50)**	31	110	**141 (58.50)**
2.	**ODI in progress**	1	1	**2 (1.25)**	3	3	**6 (3.75)**	12	34	**46 (20.50)**	16	38	**54 (25.50)**
II. CHEMICAL ANALYSIS (Annual Target – 40,000 Radicals)													
Annual Target		**28,000**			**6,000**			**6,000**			**40,000**		
1.	**Completed**	**24,091**			**3,956**			**6,613**			**34,660**		
2.	**In progress**	4,592			15			156			4,763		
III. MINERALOGICAL EXAMINATIONS (Annual Target – 2,300 M.E.)													
Annual Target		**1,300**			**500**			**500**			**2,300**		
1.	**Completed**	**1,344**			**388**			**512**			**2,244**		
2.	**In progress**	08			--			116			124		

IV. REVENUE GENERATION (For Sponsored Work from Mineral Industries (`)					
1.	**Ore Dressing**	9,66,296	6,85,396	17,54,276	**34,05,968**
2.	**Chemical**	7,98,566	2,00,920	3,29,246	**13,28,732**
3.	**Mineralogy**	1,91,012	50,028	4,77,365	**7,18,405**
Grand Total (`) …		**19,55,874**	**9,36,344**	**25,60,887**	**54,53,105**

V. ACTUAL REVENUE, SERVICE TAX & E. CESS RECEIVED (`)					
Revenue Generation		**Actual Revenue (`)**	**S. Tax received (`)**	**E. Cess Received (`)**	**Total Revenue (`)**
	Total (`) ..	**48,55,412**	**5,79,747**	**17,946**	**54,53,105**

Full Scale Investigation **(FS)**
Limited Scale Investigation **(LS) (4 LS = 1 FS)**

5.7 In case of promotional work, IBM conducts test work on the samples mainly collected during inspections of mines and R&D support provided towards fulfilling regulatory functions of IBM for systematic and scientific mining, which are prime importance from conservation and environmental aspects. The charge basis samples are received from the public and private sector mines and also from exploratory agencies such as GSI, MECL etc. **Annexure II** furnishes the list of laboratory and pilot scale investigations completed during the year 2014-15. Mineral-wise breakup is as follows:

SL. NO.	MINERAL	CHARGE BASIS	NON-CHARGE BASIS	TOTAL
1.	Barite	--	10 (2.50)	**10 (2.50)**
2.	Bauxite	--	11 (2.75)	**11 (2.75)**
3.	Copper Ore	3 (3.00)	--	**3 (3.00)**
4.	Clay/China clay	--	9 (9.00)	**9 (9.00)**
5.	Chromite Ore	--	2 (2.00)	**2 (2.00)**
6.	Gold ore	5 (3.50)	--	**5 (3.50)**
7.	Garnet	1 (1.0)		**1 (1.0)**
8.	Iron Ore	14 (5.00)	60 (18.00)	**74 (23.00)**
9.	Limestone	3 (3.0)	3 (0.75)	**6 (3.75)**
10.	Manganese ore	--	6 (2.25)	**6 (2.25)**
11.	Rock Phosphate	4 (2.50)	1 (1.00)--	**5 (3.50)**
12.	Others	9 (2.25)	--	**9 (2.25)**
TOTAL ……		**39 (20.25)**	**102 (38.25)**	**141 (58.50)**

ODI- No. of Full & Limited scale investigations (Full scale ODI)

5.8 TRAINING PROGRAMMES

(i) TRAINING PROGRAMME ON "MINERAL CHARACTERIZATION IN VIEW OF BENEFICIATION OF ORES AND MINERALS"

A Training programme on "Mineral Characterization in view of Beneficiation of Ores & Minerals" for executives of Mineral Industry on 18th – 19th June, 2014 at Bangalore was organised by the Training Centre, IBM, Nagpur & RODL, IBM, Bangalore.

Shri K.S. Raju, Ex-Controller General, IBM was the Chief Guest on 18th June 2014, an inaugural day function, Shri Raju spoke about the characterization of minerals on mineral processing.

There were three lecture session on 18th June, 2014 and two lecture session on 19th June, 2014. Senior Officers delivered lectures on various topics with power point presentation.

On the second day i.e, 19th June, 2014, the lecture sessions was followed by visit to OD lab and pilot plant. The last session was valedictory. Prof. S. Subramanian from Indian Institute of Science, Bangalore was invited as Chief Guest of the function. He spoke about the "Role of micro organism in Mineral Characterization". 31 delegates from various organization / companies of mineral industry attended the training course. The training course was a grand success.

(ii) A TRAINING PROGRAMME ON "CLAY MINERALOGY AND BENEFICIATION"

A Training Programme on "Clay Mineralogy and Beneficiation" for officers of State Department of Mining and Geology from North Eastern Region was held on 27th and 28th November, 2014 at Modern Mineral Processing Laboratory and Pilot Plant, IBM, MIDC, Nagpur organized by Training Centre, IBM, Nagpur. The training programme was inaugurated by Controller General (I/c) IBM.

Lecturers were delivered on topics like Facilities and Capabilities of Ore Dressing Division, Mineral Characterization, Instrumental Techniques of Characterization, Need for Clay Beneficiation, Clay Beneficiation Techniques and Industrial Practices of Clay Beneficiation by officers of the Ore Dressing Division.

Feedback was obtained from the participants. All the participants expressed that the training programme would be very useful for them.

Salient Results

5.9 Salient results of the important investigations are as follows:

CHROMITE:

Bench Scale beneficiation studies on a low grade Chromite (Feed) sample from M/s Misrilall Mines (P) Ltd. Saruabil, District Jajpur, Odisha (IBM/NGP/RI …..2042).

A low grade Chromite (Feed) sample from M/s Misrilall Mines (P) Ltd., Saruabil Distt. Jajpur, Odisha collected under Regional Mining Geological Studies and conducting bench scale beneficiation studies at Modern Mineral Processing Laboratory and Pilot Plant, IBM, Nagpur to confirm the grade and recovery of the operating plant and further expedite the possibilities of improving them and minimizing the tailing losses of valuables if possible. The aim of the investigation was to produce a chromite concentrate suitable for industrial use and to reduce Cr_2O_3 content below 10% in the tailings.

The as received sample assaying 34.87% Cr_2O_3, 15.73% Fe, 8.23% Al_2O_3, 23.34% SiO_2, 0.24% CaO, 8.31% MgO, 0.24% TiO_2 and 2.39% LOI. By adopting beneficiation route of wet sieving of as received sample followed by tabling of -50 + 325 mesh sieve fraction followed by dry high intensity magnetic separation of table middling and multi gravity separation of – 325 mesh sieve fraction yielded the composite concentrate assayed 54.29% Cr_2O_3, 12.79% Fe, 10.72% Al_2O_3, 8.83% SiO_2, 0.20% CaO, 7.10% MgO, 0.34% TiO2 and 47.33% LOI with 83.6% Cr_2O_3 recovery (wt% yield 53.0).

A Chromite concentrate with a higher grade as well as recovery could be obtained and the tailing losses could also be minimize to 6.66% Cr_2O_3.

IRON ORE:

Bench Scale Beneficiation Studies on a Low-grade ROM Iron Ore Sample from Shahgarh Area, Dist. Sagar, M.P. for M/s S.V. Modi Mines, Shahgarh, Dist. Sagar, M.P. (RI No. 2017/NGP).

A low-grade ROM iron ore sample was received from M/S S.V.Modi Mines, Shahgarh, Dist. Sagar, M.P., for bench scale beneficiation studies at the Modern Mineral Processing Laboratory & Pilot Plant, Indian Bureau of Mines, Nagpur. The objective of the study was to explore the possibility of obtaining value added product for its better marketability.

The ROM sample assayed Fe (T) 43.66%, SiO_2 21.71%, Al_2O_3 6.66%, TiO_2 0.51%, CaO 0.68%, MgO 0. 50%, P 0.14%, Mn 0.14% and LOI 5.75%.

The major iron minerals are goethite/limonite and hematite. Quartz is the major gangue mineral with subordinate amount of clay, very minor amount of mica (muscovite, biotite) and trace amount of pyroxene (diopside), carbonate (calcite) and talc.

It is inferred from the beneficiation studies carried out that the sample can yield only a blendable grade (over 55% Fe) iron ore concentrate. By adopting beneficiation process viz. screening of ROM ore to three size fraction of -80+40/50 mm, -40/50+18 mm and -18 mm. The screen oversize (+40/50 mm) is resorted to hand picking of heavy iron ore lumps rejecting quartz. The intermediate screen size of +18 mm is reduced to all -18 mm size. The entire -18 mm (inclusive of screen undersize of -18 mm) is than screened over 5 mm size and screen undersize is rejected. The -18+5 mm size fraction is then processed deploying Jig (air/water) to obtain jig concentrate rejecting lighter gangue as jig tails.

The evolved process route of beneficiation could produce a composite iron ore lump (-

80+40/50 mm and -18+5 mm) concentrate assaying 55-58% Fe(T), 3.7-4.1% Al_2O_3, 7.90-8.20% SiO_2 & 4.10-4.26% LOI with iron recovery of 43 to 47% (%wt. yield 42-47).

The blendable grade lumpy concentrate produced from a very low-grade ROM iron ore may find its use in DRI making.

LIMESTONE:

A low grade Limestone sample from Kovaya, district Amreli, Gujarat of M/s Ultra-Tech Cement Ltd. (IBM/NGP/RI …..2038).

A low grade limestone sample from Kovaya, district Amreli, Gujarat of M/s Ultra-Tech Cement Ltd. was successfully tested on bench scale to produce a concentrate suitable for cement industry assaying 45.05% CaO, 2.22% Al2O3, 1.79% Fe2O3 and 12.55% SiO2 with CaO distribution of 69.0% (wt% yield 41.4). The concentrate produced was from a low grade ore assaying 26.84% CaO, 6.16% Al2O3, 6.55% Fe2O3 and 31.14% SiO2. The process comprised of scrubbing of the as received sample followed by screening and direct flotation of -50 mesh screened product, eliminating the grinding circuit. The +50 mesh fraction and flotation concentrate were combined. Thus a simple and cost effective flowsheet was developed which is a significant achievement.

ROCK PHOSPHATE

Bench scale beneficiation studies on a low grade Rock Phosphate sample from Jhamarkotra, Udaipur, Rajasthan for M/s Hindustan Zinc Ltd. (IBM/AJM/R.I. No. 545).

A low grade Rock phosphate sample from the Jhamarkotra mines, Udaipur district, Rajasthan sent by M/s Hindustan Zinc Ltd at RODL, IBM, Ajmer for bench scale beneficiation studies. The objective of the investigation were a) to produce a upgraded phosphate concentrate & b) reduce the iron, silica and alumina in the phosphate concentrate.

The as received sample assayed 10.42% P_2O_5, 15.20% CaO, 6.62% Fe_2O_3, 4.01%Al_2O_3, 56.28% SiO_2, 0.02% MgO, 0.14%Na_2O, 0.97%K_2O, 0.02%S(T), 1.12% BaO, 0.22% TiO_2, 4.61% LOI (including Moisture 0.11%). By adopting flotation test studies, the final concentrate obtained assaying 30.03% P_2O_5, 2.81 % Fe_2O_3, 0.92% Al_2O_3, 8.84% SiO_2 with 78.9% recovery (Overall Wt.% yield 27.6).

The Rock phosphate concentrate generated meets the specifications for the elemental Rock phosphate-Type-1; and can be used after blending with high grade ores, because it's (Al_2O_3+ Fe_2O_3) content is slightly higher.

INTERNATIONAL SEMINAR ON MINERAL PROCESSING TECHNOLOGY (MPT-2014):

5.10 International Seminar on Mineral Processing Technology (MPT-2014) was held at Vishakhapatnam from 12th to 14th March, 2015. Dr. (Smt.) S.M. Lal, S.O.(O.D.) & I/c, M.P. Division alongwith Smt. Indira Ravindran, S.O.(O.D.) & OIC, RODL, Bangalore, Shri L.B. Toal, D.O.D.O., IBM, Nagpur & Shri Suresh Kumar, A.O.D.O., IBM, Bangalore attended the seminar. The following technical papers were presented:-

1. The technical paper entitled " Characterization and its significance in view of beneficiation" - L.B. Toal & Dr. (Smt.) S.M. Lal. Received **'Peravadhanulu Award for Best Paper'** in Mineral Characterization category.

2. Value Addition on Reject Silica Sand for use in glass Industry – R.S. Aehdi, V.A. Sontakkey and S.M. Lal (Poster).

3. Value Addition of Lime Kankar sample for industrial applications – B. Suresh Kumar, VAJ Aruna, N.P. Haran and S.M. Lal.

4. "Beneficiation of low grade iron ore sample from Jabalpur, Madhya Pradesh" - T. Purachandra Rao, B. Devaprasad Ananth, N.P. Haran and Indira Ravindran.

5. “Beneficiation studies on Casserite sample” – K.V.Rao, M. Assadulla and N.P. Haran (Poster).

TECHNICAL CONSULTANCY, MINING RESEARCH AND PUBLICATION (TMP) DIVISION

The Technical Consultancy, Mining Research and Publication Division is headed by the Controller of Mines. It offers technical consultancy services to the mining industry, undertakes scientific, techno-economic, research oriented studies and brings out monographs and bulletins on topical interest.

TECHNICAL CONSULTANCY

6.1 Technical consultancy services are offered on charge basis to the mining industry within the country and abroad in the fields of surveying, exploration, geology, mining and environment related issues. It offers consultancy services to large as well as small mine owners. Small mine owners are offered services at a concessional rate. It helps the mine owners in systematic development of their mines, formulation of their production plans, better utilisation of mineral resources available in the areas, to take investment decisions for implementation of new projects and obtain financial assistance from the financial institutions. The services offered are:

6.2 Survey and Geological Services

- Topographic survey of mineral properties
- Preparation of geological plan as per MMR 1961 and MCDR 1988
- Preliminary geological appraisal of mineral deposits
- Formulation of scheme of exploration and preparation of detailed exploration reports
- Geo-statistical evaluation of mineral deposits
- Collection of bulk samples from mineral deposits/mineralized dumps for laboratory and pilot plant investigation

6.3 Mining Services

- Preparation of mine development scheme of opencast and under-ground mines
- Preparation of mining feasibility reports of opencast and under-ground mines
- Evaluation of feasibility reports for financial institutions.
- Financial analysis of mining projects
- Remodeling of old mines for introduction of advanced mining technology.

6.4 Environmental Studies

- Preparation of Solid waste management plan
- Generation of environmental base-line data
- Preparation of Environmental Impact Assessment (EIA) & Environmental Management Plan (EMP)

6.5 Specialised Services

- Productivity study of opencast and underground mines
- Techno-economic survey of mineral properties
- Production planning and grade control on given process parameters

6.6 Advanced computer facilities like Surpac 2000 computer system alongwith latest software on mine planning and designing, map making etc, highly sophisticated, sensitive and accurate survey equipment like Differential Global Positioning System (DGPS), Electronic Total Station, Electronic Distance Meter,

Lap Top Computer with software suitable for processing of survey data, available in this division provide necessary sophisticated backup to these services.

6.7 Achievements

During the year 2014-15, 4 assignments have been completed which includes 1 Ground Vibration Study and 3 survey assignments against the target of 1-2 mining assignments, 2 geological assignments and 2 to 3 survey assignments. Besides 4 Regional Mineral Development Studies as per SDF aspects have also been completed (as per action Plan 2014-15). Total revenue generation for the period for 2014-15 was Rs. **04,60,078**/-

Assignments completed

6.8 The details of consultancy assignments completed during the year 2014-15 are as follows :-

1) *Joint survey and measurement of Excavation work/Lignite stock of Mangrol mine of M/s Gujarat. Ind. Power Co. Ltd. Surat Gujarat*
2) *Joint survey and measurement of Excavation work/Lignite work of Vastan Lignite mine of M/s Gujarat. Ind. Power Co. Ltd. Surat Gujarat*
3) *Joint survey and measurement of Excavation work/Lignite work of Valiya Lignite mine of M/s Gujarat Ind. Power Co. Ltd. Surat Gujarat.*

Assignments in respect of Joint survey measurement of Excavation work/Lignite stock of Mangrol, Vastan & Valiya Lignite mine of M/s Gujarat. Ind. Power Co. Ltd. Surat, Gujarat have been completed.

6.9 4 Regional Mineral Development Studies of Manganese Ore mines In Maharashtra State.

The purpose of Regional Mineral Development Study was to examination of the existing system of operation, recovery and efficiency in mining, reclamation and rehabilitation of the mined out areas, environmental aspects includes impacts on surrounding areas, systematic closure of mines and possible improvements & sustainable development of the region.

i) Kandri & Mansar Manganese mines of M/s MOIL LTD & Bhandarbodi Manganese mine of M/s D.P.Rai.

As per the annual programme 2014-2015 of TMP division, preparation of Regional Mineral Development study for cluster of manganese mines in respect of Kandri & Mansar Manganese Ore Mines of M/s Manganese Ore India Ltd. & Bhandarbodi Manganese Ore Mine of M/s D.P.Rai were taken up for the study.

The mines are located about 42 to 65 kms NE of Nagpur, near Ramtek, tehsil of Maharashtra. The nearest railway station is Ramtek. The study area falls under the Topo-sheet No. 55 –O/7.

The ore body has been established up to depth of 420m.350m and 17m in Kandri, Mansuar and Bandarbodi mines respectively. The reserves estimated are 16,99,080T in Kandari,19,12,455 T in Mansuar and in Bandarbodi (probable) 28845 tonnes.

Dump mining is practiced in both Kandri and Mansar mine. The dumps are potential sources of low-grade ore high siliceous ore consist 40% Mn. Presently in Kandri and Mansur, the mining is confined to underground methods. The Bhandarbodi mine is manual mine & all working is being done manually.

The ROM produce from the underground mine hoisted to surface by shaft which is sent to crushing & screening for up gradation of ROM. Only sizing separation is being done on crusher whereas quality sorting is done manually. Reject

generated during underground is being utilized as back filling in underground itself in Kandri & Mansar mines. The waste produced during mining operations in Bhandarbodi mine consists of soil and waste rock.

The ore hauled by diesel locomotive to OCF (Open Clear Floor) and from that to gantry 16 CFT tubs are used with locomotive in Kandri mine. Whereas, in Mansar mine, the loaded tubs brought to inclined bottom are hauled upto surface with the help of double drum haulage. On surface the waste material tubs are hauled manually. The cost of production for Kandri & Mansar mines for the year 2013-14 reflected as Rs. 5863/- per tons and Rs. 2910.39/- respectively. In case of Bhandarbodi mine from 2009 to 2014 is Rs1322.59 tons.

Environment monitoring for air, water and noise is being carried out in both the mines by private company. All the parameters are with in prescribed limit. However, measures are being taken to constrain the air pollution.

MOIL has started afforestation since 1985-86 in consultation with local forest officers and NEERI, Nagpur. Total 16.30 Hects. Land covered under afforestation. In Bhandorbadi, it was proposed to plant 40trees per year, but only few no of plantation have been observed during the study.

At present, there is no possibility of closure plan, as the existence of mineral is still there. The waste rock generated during mining is being stacked as overburden. Hence as such there is no problem for stacking of waste on the mineralized ground in both Mines. This study has recommended the area in between Kandri and Mansar mines for detail exploration by Govt. agencies. The area may also be granted in the prospecting licenses cum mining lease. Similarly immediate need for systematic evaluation and mine planning of MNO2 deposit particularly within private lease holders (Bhandarbodi Manganese mine).

ii) Beldonri, Old Satuk & New Satuk Manganese Mines of M/s MOIL Ltd.

The Study area under this RMDS includes mining leases of Beldongri Manganese Ore Mine, New & Old Satuk Manganese Ore Mine of M/s Manganese Ore (India) Ltd. (MOIL LTD). The mines are located at about 38 KMs. North-East of Nagpur near Nagardhan town, Tehsil Parseoni, district Nagpur, in Maharashtra.

The Beldongri Manganese mines comprised two leases which are contiguous. Beldongri Lease-I is of 26.66 Ha. & Lease-II is of 12.99 Ha. Presently Underground Mining is carried out in Lease-I only. Lease-II is having old dumps of Manganese Ore where recovery of Manganese Ore from the dumps is being carried out. The new& old Satuk Manganese Ore mine are worked by opencast method. New Satuk lease area is of 16.84 Ha. & old Satuk lease area of 8.684 Ha.

The Manganese ore deposits in this area are found associated with the rocks of Sausar series of Pre-Cambrian age, which are restricted within overlying Mica Schists and underlying quartz mica schist of Mansar and Chourbaoli stages respectively. Rocks of these two stages are intricately folded and faulted. However, due to thick mantle of soil cover in the area the regional structure largely remains vague. The regional strike of the litho-units in the area varies between E-W to WNW-ESE with general dips towards south. The Manganese ore deposits in the area consists of both syngentically formed primary Braunitic and Gonditic ores and Supergene oxidized ores. Two sub parallel manganese ore zones are identified in Beldongri-Satuk and Nagardhan area which are aligned in roughly west to east

direction separated by 0.8 km. wide gap. The northern ore zone covers Beldongri Mine and southern ore zone covers Satuk mine.

The principal rocks met within the lease area are highly metamorphosed rocks mainly comprising of Quartzites, various types of Schists and Gneisses, Dolomites and Calcgranulites etc. The Manganese Ore deposits mainly consist of syngenetically formed primary Braunitic and Gonditic ores. The area comprises of flat country covered with a thick mantle of alluvial soil with few low lying rocky mounds, having general strike (Beldongri) of ore zones swings from ENE-WSW, E-W to almost NW-SE with general dips ranging from $35^0$to 60^0 towards due South.

The lease area of Beldongri Mine Lease – I, has been explored by 15 nos. of core drillings and established depth continuity of ore up to 148MRL.

The total resources in Beldongri mine are 240391 tonnes. Based on the current reserve data and average rate of production, the life of the mine will be around 7.2 years. Present mineable reserves of Old Satuk mine is 3,71,165 tonnes. Based on the current rate of production the life of mine will be around 15 years. Present mineable reserves of New Satuk mine is 46116 tonnes. The life of the mine considering current rate of production will be around 6 years. Average rate of dump production at Beldongri Lease-II is 200 tonnes per year & it will continue for 34 years.

Beldongri & Satuk manganese ore mine is a non-captive mine. Present method of mine working is by opencastin old & new Satuk and underground in Beldongri.Semi-mechanised method of mining is being practised considering the geological set-up of deposit, surface topography, geometry of ore deposit, quality variation, and required rate of production etc. Height of benches are 2 to 5 meters with width more than height. Drilling is done using 33 mm dia. jack hammer drills with 10% sub-grade drilling. Excavation of ore and overburden is undertaken separately. Excavated material is hauled through dumpers, trucks of capacity ranging from 10 to 15 tonnes. In addition to that, other ancillary equipment like Dozers, are also put into use.

Wedge cut pattern of drilling in development faces & staggered drilling in stoping faces is followed in underground. Blasting is done by using mostly cartridges of 125 gm., operations are being carried out by semi-mechanised means. Transport from mine to destination is being done by truck. Lead distance of 0.5 km requires 7 to 10 minutes for ore. Entire mineral processing is by manual method using hand sorting and sizing. The waste material is mainly mica schist which is stacked separately at earmarked dumping side. Protective measures for stabilization of dumps like stone wall are constructed.

The monitoring of air, water, and noise levels are carried out at regular intervals and right now all the parameters are well within the prescribed limit of the standards. The company is carrying out air quality monitoring in core and buffer zone of the lease. Adequate measures are being taken for controlling the air pollution. All the dead dump slope are covered with plantation. Water quality is well within the permissible limit of standard prescribed. Adequate measures are being taken to control water pollution. Since semi-mechanised mining operation are being carried out, the monitored ambient noise quality data of residential & industrial area exhibits that the noise level is well within the safe limit of the standards prescribed by DGMS. Controlled blasting is being carried out in the mines and recommended blast designs is followed in day-to-day blasting operations and blast is carried out during day time only for safe & efficient blasting operations.

The Mining area has not indicated the presence of any rare, endangered or endemic species within this area. The nearby are is agriculture field mostly paddy fields. Mine management has also done compensatory afforestation. Company has planted total 27846 No. of saplings with survival rate of about 72.04%. The dumps have been stabilized through terracing, compaction and afforestation.

About 205 people including managerial, skilled, semi-skilled & unskilled persons are directly employed in the mine, at least twice numbers are thriving on these mines in the ancillary and peripheral activity. Market and infrastructural facility in the close by area is also participating in economic effluence generated in the area through pouring in of money. It has been reported that on the basis of individual company level the social and community development work has been carried out time to time like medical camp, training, education, transportation etc.

iii) Dongri Buzurg & Chikla Mn Mines of M/s MOIL

As per annual programme 2014-15 T.M.P. division has carried out Regional Mineral Development Study (RMDS) of Manganese mines in Maharashtra state. Under the study Chikla & Dongri Buzurg manganese mines of M/s MOIL Ltd. in Bhandara district are covered. The objective of the Regional Mineral Development Study (RMDS) of Chikla & Dongri Buzurg Manganese Mines was to examine and suggest improvement of recovery and efficiency of mining operations, reclamation and rehabilitation of mined out areas, environmental aspects including impact on surrounding area, socio-economic impact on account of closure of mines and review of Non legislative SDF aspects.

Chikla and Dongri Buzurg Manganese Ore Mines is having 150.646 Ha. area out of which 70.07 Ha. is forest and 80.58 Ha is in non-forest in Chikla mine & Dongri Buzurg mine is comprises of four leases having contiguous boundaries with total of 174.80 Ha. These are i) BalapurHamsha - 46.25 Ha ii) DongriBuzurg - 53.98 Ha iii) DongriBuzurg, Kurmuda -70.50 Ha. iv) BalapurHamsha - 4.07 Ha.

This area lies in Sausar belt of Pre-cambrian era. The Manganese belt of Central India stretches over a length of 220 km and is about 25 km wide in the Central part. The regional strike of formations is E-W varying to ENE-WSW locally, with moderate to steep southerly dips varying from 45º to 70º. In Dongri Buzurg mine general trend of the rocks is roughly east-west, but at the western end there is gradual swing to WSW southerly moderate to steep dips varying from 50^0 to 70^0. The thickness of ore body is maximum 36 m in the central part of the lease and thins out at both the ends to about 6 m. The area around Chikla Mine is an undulating plain comprises three prominent hillocks viz. Chikla hill, Sitasaongi hill and Chikla extension or Mandir hill. The ground elevation varies from 150 m to 460 m above MSL.

The reserves/resources have been estimated considering 10% Mn content as threshold value. As on 01.04.2014, total resources in Chikla mine are 49,13,505 tonnes, out of which 26,09,151 tonnes are reserves and 23,04,354 tonnes are resources. In Dongri Buzurg Mine, total resources are 1,09,81,273 tonnes out of which 48,27,695 tonnes are reserves and 61,53,578 tonnes are resources. The resources may increase with the systematic exploration.

The major thrust for exploitation in Chikla Mine is with underground mining. It is carried out in all the three sections of mine. Overhand cut & fill, followed by sand stowing is the method largely being used at this mine. Dongri mine comprises of 4 contiguous leases. The principal bed mining activities are limited to Lease I (46.25 Ha).

The other Leases (53.98 Ha, 69.50 Ha and 4.07Ha) are in support of development and as ancillary to mining activities. This includes, Dump mining, stacking of waste, beneficiation of ore & Electrolytic Manganese Dioxide plant etc.

Existing blast practices involves use of detonating fuse initiation with electric detonators/ ordinary detonators with safety fuse using mainly slurry explosive. Hydraulic (Diesel) drills with varying capacity of 300 CFM are used for blast hole drillings. Excavation of ore & overburden is undertaken through Hydraulic (Diesel) Shovel & Loader combination varying in capacities from 2 cum to 4.5 cum .The excavated material is hauled through the Dumpers of 35 tonne capacities. In addition to that ancillary equipments like water springlers, Graders, Tippers, Tractors, Diesel Brower etc are also put into use.

The waste rock produced from U/G development as in Chikla mine is utilised fully as a filling material for the filling of bottom most lift. Annual requirement of filling material for U/G is about 30,000 cu.m. and filling material available from development drivages is about 2500 cu.m. Rest of the area filled by hydraulic sand stowing. In Dongri Buzurg mine company is separately stacking the waste material in four different dumps. Mine has identified 3 areas for disposal of waste at i) Purchased land of 16.09 Ha to the North of lease. ii) Part of the area form lease 69.50 Ha. iii) Purchased land of 4.09 Ha to the south of lease.

The cleaned ore recovery is influenced by market scenario. At present the grade +20%Mn and above are saleable in market. MOIL Ltd. has deviated from its earlier sale strategy. Company is selling ore above +25% Mn. Accordingly the recovery factor of cleaned ore from ROM is fixed as 80%. The 20% of ROM which is analyze as less than 20% Mn, is stacked separately for future use. The fraction analyze in between 20-25% Mn is blend with higher grade to produce average grade of 25% Mn.

The environmental parameters for monitoring viz. air, water, noise etc. are being diligently monitored for the environmental management by the company. M/s MOIL LTD. has assigned the work to registered consultant M/s Anacon Co. Hyderabad.

The mining lease area has been afforested by planting trees thereby increasing green belt area in the close proximity of Chikla mine. In addition MOIL has been taking plantation programme in order to cover more barren area within the lease area of Dongri Buzurg under green belt programme. Different types of saplings are planted to preserve top soil degradation, stabilize and reclamation of old dump.

About 130 m^3/day water is drawn from Bawanthadi River. The mine management mainly utilizing this water for wet drilling, ore washing and dust suppression spraying on the haulage roadways. A company is also using this water for the cooling of nearby plantation. The Company is drawing about 115 m3/day water from a large natural pond which is located near the leasehold area within the purchase land of the company and utilized in the Integrated Manganese Beneficiation (IMB) & Electrolytic Manganese-di-oxide (EMD) plants and for dust suppression also an adequate size tailing dam is provided for EMD plant. The waste water from EMD plant mine is allowed to de-silt in pond & clean water is re-circulated to plant, as well as for plantation. The silt from this pond is a Hutch product. This product is now a day's sold, as market is favorable.

iv) Gumgaon Mn Mine of M/s MOIL Ltd & Kirnapur Mn Mine of M/s Veetrag Homes Pvt. Ltd.

During the annual programme year 204-15 Regional Mineral Development study of

Gumgaon Manganese Ore Mine of M/s Manganese Ore India Ltd. & Kiranapur Manganese Ore Mine of M/s Veet Rag Homes Pvt. Ltd have been taken up.

The Gumgaon manganese mines comprise three contiguous mining leases working through common underground mine. The Kirnapur manganese mine is opencast mine.

Geologically this area lies in Sausar belt of Pre-cambrian era. The manganese ore is associated with mica schist of Mansar formation. Locally the area is represented by mica schist in hangwall side and feldspathic/pink quartzite at the footwall side. Strike length of the Gumgaon ore body is about 750 mts. and thickness from 6 to 40 mts. Pegmatite veins were also present at many places whereas Kirnapur area is represented by country rocks Schist of Mansar formation and Quartzites of Chourbaoli formation into which bands of manganese ore bodies are located. Structurally the area has passed through various phases of deformation resulting into displacement of ore body along dip and strike direction in both the mines. Ongoing exploration in Gumgaon mine in deeper section will confirm the geometry of ore body.

In Gumgaon manganese mine, area has been explored by 91 boreholes. Kirnapur Mn mine M/s Veet Rag Homes Pvt Ltd drilled only 4 boreholes in 2008-09 with depth of 40 to 90m and 250 meterage.

Gumgaon Mine, reserves/resources as per UNFC has been estimated as 4219464 T includes proved, probable and inferred mineral reserve whereas mineable reserves estimated as 2626474T. In case of Kirnapur mine proved and probable reserves have been estimated as 95170T & 68270T respectively

Gumgaon mine, the underground mining activities are confined to 222 mRL and 192 mRL. Over hand flat back, cut & fill method with sand stowing is the method of mining for underground workings. The present working level are -100level, -200level & - 300 level. The production of year 2012-13 & 2013-14 was 64512 T & 66630 T respectively. Dump mining is practiced. BD-1 is the only potential mineral dump source whereas BD-2 is limited dimension dump. The cost of production for the year 2013-14 reflected as Rs.3956.12/- per tonne. Waste rock generated in 2012-13- 6160 T, 2013-14 - 7401 T & in 2014-15 up to Nov.14 was 5096 T with grade <12%. A 75 T capacity hopper is provided which is fitted with 250mm grizzle to check the oversize.

Kirnapur mine worked by open cast method. There are two working pits. present lowest RL 298m. Bench height is maintained at 6 m with slope of 45º. Production for 2012-13 was 7493 tonnes whereas for year 2013-14, 3431 tonnes. The maximum production are below 25% Mn grade. The cost of production was Rs 1850/tonne. After sorting the required size, 25mm to 10mm and 10mm to 30mm sized ore is beneficiated by jigging method to enhance the quality of size ore product from this mine.

All measures are being taken to constrain the air pollution. Dust suppression by installing water sprinklers and use of mobile water tankers wherever required. Plantation of 44.98 hect. of land has been done in Gumgaon mine & 2500sqm area has been covered by plantation in Kirnapur Mn mine to provide eco friendly environment.

This study revealed that being underground mine, Gumgaon mines have more opportunity to be developed further as a giant mine due to the exploration on west side of mine intersected at depth good ore body of 30 to 40m width having good quality ore. After completion of exploration huge reserves of manganese

will be proved and this mine will be leading in production among the other mines of MOIL. So far, reserves proved are suitable for underground mines, therefore, there will be no effect of mining on surface. Whereas the Kirnapur mine is concerned, though there is sufficient area available for stacking the waste and other infrastructure purpose, systematic development of mine including environmental mitigations are required to be taken up to sustain the future development of the mine.

MINING RESEARCH CELL

6.10 The Mining Research Cell carries out applied mining research on various mining aspects with a view to help the industry in systematic development of mines, improvements in productivity and to achieve sustainable development by adopting state-of-the-art environmental management systems. Besides, undertaking assignments on promotional basis, it undertakes industry sponsored assignments on environmental and geo-technical aspects, on charge basis. To cater the present day requirements Cell is equipped with latest facility and software like 'Galena' for Geo Technical work, 'Blast Ware' for analysis of blasting vibrations data.

Achievements

6.11 During the year 2014-15, 01 assignment of Ground Vibration Monitoring Studies was completed.

During the year 2014-15, total revenue generation from consultancy services was ` 2,62,923/- (including Service Tax).

Project completed

6.12 Blast Induced Ground Vibration Study at Laxmi Cement Limestone Mine of M/s J.K.Lakshmi Cements Ltd. Tahsil Pindwara, Dist. Sirohi (Rajasthan)

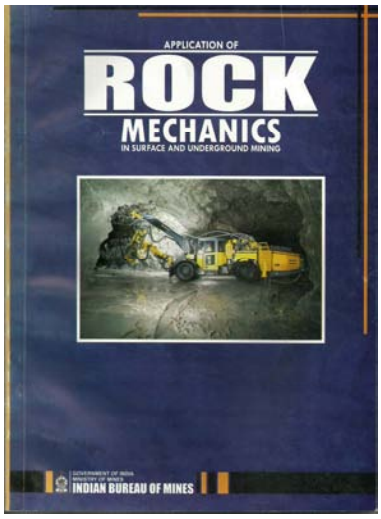
On the request of M/s J.K.Lakshmi Cements Ltd. Tahsil Pindwara, Dist. Sirohi (Rajasthan), study of ground vibrations due to blasting at their Laxmi Cement Limestone Mine, Tahsil Pindwara, District Sihori (Rajasthan) over an area of 390.625 Hect. was carried out to study the impact of blast induced ground vibrations on the nearby structures, human settlements and to suggest control measures to minimize the adverse impact of the same. Under this study, total 09 numbers of blasts at Laxmi Limestone Mine at different dates were carried out and monitored at five different locations at a time and 27 events were recorded. Based on the monitoring data, a regression analysis report submitted to party. For minimizing the vibration effects and fly rocks due to blasting control measures have been suggested in the report.

Projects in Progress

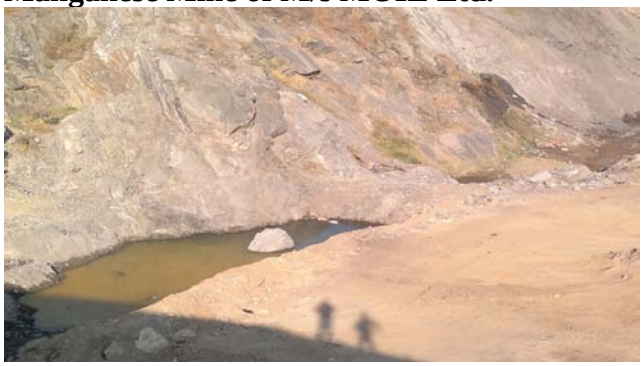
6.13 One proposal of Ground Vibration Monitoring study was under negotiations.

PUBLICATION CELL

6.14 The Publication Cell brings out Monographs on individual minerals under the series Mineral Facts and Problems, and Bulletins of topical interest. However, due to acute shortage of manpower working of the Publication Cell is hampered.



Loading operation at Old Satuk Manganese Mine of M/s MOIL Ltd.



Bird eye view of Old Satuk Manganese mine of MOIL Ltd.

Bird eye view of New Satuk Manganese Mine of MOIL Ltd.

Plantation at Beldongri manganese mine of M/s MOIL Ltd.

Construction of Culvert at Satuk Village under CSR by MOIL Ltd.

Construction of Approach Road from Dumri to Satuk Mineby MOIL Ltd.

Handpump for drinking water at Dumri-KalaVillage by MOIL Ltd.

MINERAL ECONOMICS DIVISION

The Mineral Economics Division (ME) provides information support and advisory services to the Government and Mineral Industry specially on issues like marketing, specifications and uses of minerals, mineral legislation, inventory of mineral resources, mining leases, and taxation etc. Moreover, it disseminates latest information on mineral industry, collected through statutory as well as non-statutory sources, through its flag-ship publication `Indian Minerals Year Book' and number of other publications. This Division is headed by a Chief Mineral Economist (CME). The IBM's Library and IBM Press are also function under this Division.

ACHIEVEMENTS

7.2 NATIONAL MINERAL INVENTORY (NMI)

Intermediate updating of NMI as on 1.4.2013 as per UNFC with its computerization, validation and synthesis in respect of 09 minerals namely, Iron ore (Magnetite), Magnesite, Corundum, Fluorite, Laterite, Vanadium, Antimony, Nickel and Cobalt were completed during 2014-15. Thus Intermediate updation of 21 minerals completed during 2013-14 & 2014-15. The processing & generation of mineral wise summary outputs is underway. The updated data will be released shortly. Quinquennial updation of NMI as on 01.04.2015 as per UNFC for 71 minerals will be initiated and a National Conference in this regard will be organized. All India Mineral wise resources as on 1.4.2010/*13 are enclosed as Annexure XI.

The National Mineral Inventory, based on UNFC System, is being used for making decision of investments in exploration and mining by 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.

7.3 MARKET SURVEY ON MINERAL AND METALS

The Market Survey Reports on minerals and metals of topical interest are prepared. These reports provide comprehensive analysis of resource availability, uses, consumption pattern, holistic approach to the future demand-supply projections. The reports also provide the various problems faced by the mineral consuming industries and their probable solutions. These reports are useful to the entrepreneurs, researchers, planners, traders, etc.

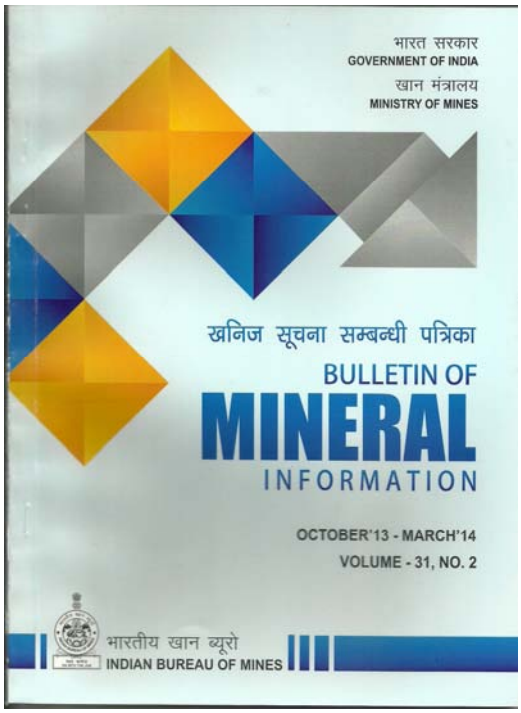
A Market Survey Report on Manganese Ore was released, while work related to Market Survey report on Rock Phosphate has been stopped as Rock Phosphate is included in Sub Sector Plan Reports as per RFD 2014-15. Sub Sector Plan reports on Chromite and Copper was prepared, approved by CG, IBM and same were sent to Ministry of Mines, New Delhi in the month of April, 2014.

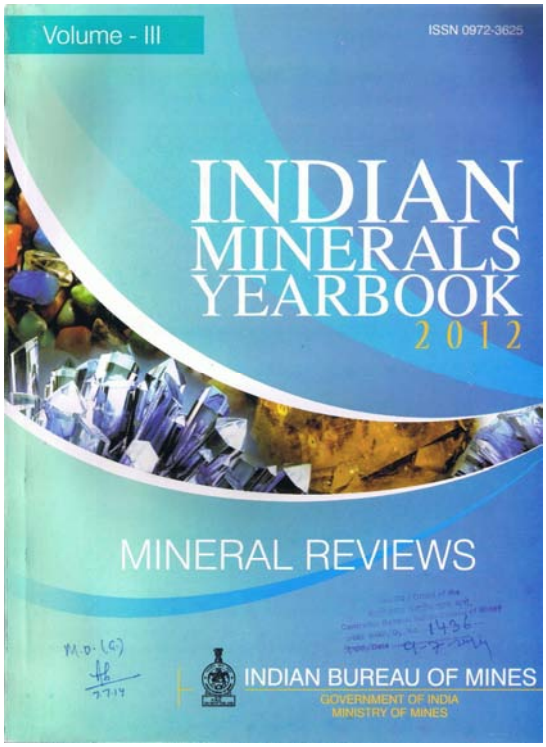
7.4 BULLETIN OF MINERAL INFORMATION (BMI)

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 Reconnaissance Permit 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.

During the period 2014 – 2015 BMI viz. April 2014 - September 2014 issue was released, October 2014 – March 2015 was uploaded on IBM's Website and BMI issue April 2015 - September 2015 is under progress.





7.5 INDIAN MINERALS YEARBOOK (IMYB)

IMYB is the flagship publication of IBM. As decided by Ministry of Mines, the IMYB 2012 onwards will be brought out in three volumes. It consists of **Part I** having as many as 11 General Chapters, **Part II** consists of 19 Reviews on Metals & Alloys and **Part III** consists of 50 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 and International which is now available on IBM's Website.

As per the decision, IMYB 2013 (data 2012-2013), total 80 general/metal & alloys/mineral reviews were prepared, technically edited, finalized and sent to Press after consolidation of all chapters with the statistical data. The IMYB 2013 was uploaded on IBM's portal.

For IMYB 2014(data 2013-2014) about 3,500 letters/questionnaires were issued for capturing of data. Nearly 750 (including Form 'O','N' and Others) receipts from various mineral-based industries, Central/State Government Departments, Central/State Undertakings, National Laboratories etc. were received during the period under review. End-use mineral consumption tables (data 2013-2014) in respect of 50 minerals were computed. Work related to developing the different modules of the software for Online submission of returns (Form 'O') had also been initiated through NIC.

7.6 DIRECTORY OF MINING LEASES

Updating of mining lease information based on consolidated annual returns from State Governments and Union Territories under statutory provisions of rule 57(2) of MCR, 1960 was continued. Based on these data an

Annual Directory on All India basis depicting the distribution of mining leases granted/executed for different states are generated.

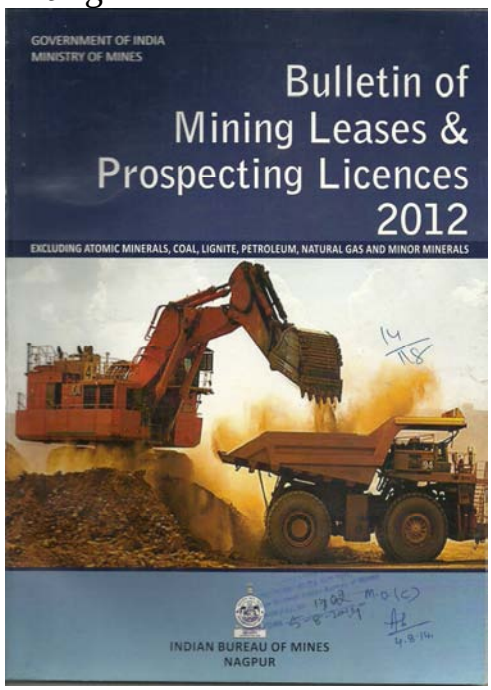
Directory of Mining Leases in India as on 31-03-2014 has been released. The work for preparation/updation of Directory of Mining Leases in India as on 31-03-2015 is in progress by way of collecting information from State Governments, Union Territories, and central and state public sector companies. The processing/scrutinizing of the data available in annual returns received from various state governments and work of data entry are in progress. State-wise summary of lease distribution as on 31/03/2014 and mineral-wise summary of lease distribution as on 31/03/2014 is enclosed as **Annexure-XIV C & XIV D** respectively.

A sum of Rs. 34,000/- was realized on sale of mining lease information during the period April 2014 to March 2015.

7.7 BULLETIN OF MINING LEASES AND PROSPECTING LICENCES.

The Bulletin of Mining Leases and Prospecting Licences is the sole publication which contains information on mining leases, prospecting licences as well as reconnaissance permits. The bulletin provides the distribution pattern of mining leases spread over in as many as 28 states with its break-ups, into state-wise, district-wise, mineral-wise and sector-wise (Public and 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.

The Bulletin of Mining Leases and Prospecting Licenses, 2014 has been uploaded on IBM's Website and the same is under printing.



7.8 MINERAL INFORMATION AND ADVISORY SERVICES

During the year, 59 Parliament Questions, 25 Central Govt. references and 04 private and 61 other inquiries from other divisions of Bureau were also

attended. These were related to mineral resources, availability and utilization, reservation of mineral-bearing areas, mineral trade, policy, mineral legislation, etc. A status note on the mining and mineral sector for the year 2014-15 is also prepared.

7.9 WORLD MINERAL INTELLIGENCE

During 2014-15, about 10 ministry references were attended. Comments/suggestions and draft notes were furnished and these are related to mineral Trade, bilateral co-operation in Mining and Mineral sector.

During the year 2014-15, the country wise/mineral wise reserves/ resources data for 45 minerals based on Mineral Commodity Summaries, USGS were prepared and furnished to IMYB Unit. Country wise World Production data for the year 2010, 2011 & 2012 were updated and data inputting for the year 2013 is carried out and output is generated and the same were also forwarded to IMYB unit for incorporation in various reviews of IMYB.

7.10 Sub Sector Development Plans

Under the Objective of "Repositioning the Ministry from a 'regulatory role' to a 'techno-economic, scientific and facilitatory role', mention of Business Development Plans for Sub Sectors pertaining to metals and mining technologies, beneficiation technologies, exploration technologies and sustainable mining first appeared in RFD of Ministry of Mines 2011-12. Preparation of Business Development Plans for Sub Sectors relating to copper, aluminium, lead & zinc, chromite and rare earth was included in RFD 2012-13 and subsequently in RFD 2013-14 of Ministry of Mines. As per directions of Ministry of Mines, IBM prepared such sub sector development plan for copper and chromite in 2013-14 and for Lead & Zinc, Aluminium and Rock Phosphate in 2014-15.

MINERAL LEGISLATION

7.11 The Mines and Minerals (Development and Regulation) (MMDR) Amendment Act, 2015.

The Government has promulgated an Ordinance on Monday, the 12th January, 2015 (MMDR Amendment Ordinance, 2015) under Article 123(1) of the Constitution, amending certain provisions of MMDR Act, 1957. The Ordinance has become Act after vetting by Parliament in its Budget Session, on 27th March 2015.

Amendments were made in/as- Section 3, Second proviso of section4(1), 4A(4), 5(1) &(2), 6(1)(b), substituted Section 8,

inserted Section 8A after Section 8, inserted Section 9B & 9C after Section 9A, inserted Sections 10A, 10B and 10C after Section10, substituted section 11(1), inserted section 11B & 11C after section 11A, inserted section 12A after Section 12, inserted new clauses (jj) to (qqk) in section 13(2), inserted section 15(4) after Section 15(3), inserted Section 15A after Section 15, inserted Section 17A(2A), 17A(2B) and 17A(2C) after Section 17A(2), inserted section 20A after section 20, substituted section 21(1) and (2), substituted section 30, inserted section 30B and 30C after Section 30A, substituted the figures and brackets, letters and word 8(1),10A,10B(1), 10C(1),11(1),11B, 11C, 12A(1) and 17A(2A) in the First Schedule to the said Act and inserted the Fourth Schedule after the Third Schedule to the said Act.

The salient provisions of the Amendment Act are as follows:

- All mineral concessions will be granted only through auction {Section 10 B& 11}.

- Direct auction for mining leases for notified minerals wherein there is sufficient evidence of mineralization; auction of prospecting licences-cum-mining leases for minerals wherein there is insufficient evidence of mineralization {Section 10 B & 11}.

- Uniform lease period of 50 years; no renewals; auction at the end of lease period; will solve issues arising out of all SC judgments on second and subsequent renewals {Section 8 A (1), (2), (3) and (4)}.

- Period of lease extended up to 2030 for captive mines and up to 2020 for other mines; no sudden stoppage as a result of amendment {Section 8 A (5) and 8 A (6)}. Central Government empowered to prescribe deadlines for various processes and to issue binding directions to States {Section 20 A}.

- Central Government to frame separate rules for atomic minerals {Amendment to Section 11 (B)}.

- The previous approval of the Central Government will not be required for grant of mineral concession except for minerals specified in Part 'A' & 'B' of First Schedule {Amendment to Section 5(1)}.

- Enabling powers for reservation of areas for the public sector to continue {Section 17 A (2A)}.

- Higher penalties and jail terms for offences; special courts may be constituted, by the State Govt. for speedy trials {Amendment to Section 21(1) & (2)}. .

- District Mineral Foundation to take care of people and areas affected by mining {Section 9 (B)}.

- National Mineral Exploration Trust to be set up for impetus to exploration {Section 9 (C)}.

- Easy transferability of concessions obtained through auctions so as to attract private investment and FDI {Section 12 (A)}.

- Powers to Central Government to intervene even where State Governments do not pass orders within prescribed time lines; this will eliminate delay {Amendment to Section 30}.

Notification of 31 major minerals as minor minerals

7.12 Ministry of Mines, in exercising the powers conferred by Section 3(e) of the Mines and Minerals (Development and regulation) Act, 1957 declared 31 minerals to be minor minerals in addition to the minerals already declared by notification as minor minerals vide Notification No. S.O.423 (E) dated 10/02/2015. These 31 minerals are: (i) Agate;(ii) Ball Clay; (iii) Barytes;(iv) Calcareous sand; (v) Calcite; (vi) Chalk; (vii) China clay ; (viii) Clay (Others); (ix) Corundum; (x) Diaspore; (xi) Dolomite; (xii) Dunite or Pyroxenite; (xiii) Felsite; (xiv) Feldspar; (xv) Fireclay; (xvi) Fuschite Quartzite; (xvii) Gypsum; (xviii) Jaspar; (xix) Kaolin; (xx) Laterite; (xxi) Limekankar; (xxii) Mica; (xxiii) Ochre; (xxiv) Pyrophyllite; (xxv) Quartz; (xxvi) Quartzite; (xxvii) Sand (Others); (xxviii) Shale; (xxix) Silica Sand; (xxx) Slate and (xxxi) Steatite or Talc ore Soapstone.

Revision of Rate of Royalty and Dead Rent.

7.13 In order to review the royalty rates and dead rent, the Ministry of Mines has on 13th September, 2011 constituted a Study Group on revision of rates of royalty and dead rent for minerals (other than coal, lignite and sand for stowing) and to make appropriate recommendations to the Government. It was reconstituted on 4th February, 2013 with special secretary (Mines) as chairperson.
Draft report of the Study Group to review the Rates of Royalty & Dead rent submitted in June, 2013.

Ministry of Mines in exercising the powers conferred under Sections 9(3) and 9A(2) of the MMDR Act, revised/amended the Rates of Royalty for major minerals (excluding, coal, lignite and sand for stowing)(the second Schedule to the Act) and rates of Dead rent(the Third Schedule to the Act) and notified vide notification No.G.S.R.630(E) dated 01/09/2014 and G.S.R.631(E) dated 01/09/2014 respectively.

CENTRAL LIBRARY

7.14 Central library of Indian Bureau of Mines, Head Quarters (Nagpur) comes under category of “Special Library” which is

dedicated to the subjects Mining and Geology. The Library is enriched with valuable collection of publications on the subjects Mineral Economics, Economic Geology, Mineral Processing, Mining Research, Environmental Engineering and Mineralogy etc. Besides the conventional form of information (books, Journals and Bound volumes) the collection also includes unpublished reports of IBM and GSI and published reports of various Ministries, Organizations, Industrial Houses, Banking Sector, Records, memoirs, Bulletins, Maps, Atlases Symposium / Seminar Proceedings, CD ROMs etc. and the Gazette Notifications. Central library acts as knowledge hub for Regional Offices Libraries as well as Head quarter of IBM. It maintains "OPEN ACCESS SYSTEM" for shelving the publications so that free mind and unrestricted search by users. The Library staff is always available to help them. The Library has computerized the data of books and articles in **Libsys** software. The users can search for their queries through **OPAC** (Online Public Access Catalogue) facility of Libsys.

The total collection has crossed the figure 1,35000 (Books, Bound Volumes, unpublished reports and gazettes etc.); special drive of Hindi publications for Hindi language promotion as per Central Government norms is well achieved. The aim of this library is to procure publications on the above and other related subjects of Science and Technology for the users of Indian Bureau of Mines (HQ, Zonal/Regional Offices and Mineral Processing Division) all over India. Previously the Library used to serve the Officials of GSI, Atomic Mineral Division, CGWB, DMI, MECL and MOIL etc. while extending membership to them.

Activities and Services

- Lending of publications to the IBM borrowers.
- Providing anticipatory and on demand reference/ information/ documentation service.
- Indexing and abstracting of articles from technical journals.
- National and local dailies procured and provided to the users during the lunch time
- News papers are also procured and permanently circulated to the divisions/ sections of IBM headquarters.
- Providing Current Awareness Service- News Clipping File (marking and compilation of news items from news papers- **Classified Mineral News**
- Current Content (Compilation of front page

and content page of Technical Journals- **GEM**

- **New Service-** Central Library has started new service in the field of SDI News; in this the specialized News Files are prepared on twelve subjects.

During the financial year 2014-15, 4385 publications, gazettes, annual reports and periodical were received in the library. 331 books and 290 articles have been entered in the data base of libsys software.

As on 31st March 2015, 365 borrowed publications in 2014-15. Academicians, research scholars, students and executives from other institutions also utilized library facilities.

For the benefit of the users, Library compiled subject wise bibliographies, provided index for all technical subjects related to IBM, Annual Reports, and Gazette Notifications and Administrative matters. Also it helped readers by providing Xerox copies, including copies for outsiders on payment basis and information on reference enquiries.

Every year Library Committee Meeting is held for procurement of Library publications such as Technical Journals, Administrative as well as Hindi Publications. The committee members are nominated from different divisions of Indian Bureau of Mines headquarter. The budget of 15 lakh was allotted for purchase of publications for Library. Within this budget purchase of journals and books for Mineral Processing Laboratories of IBM at Ajmer, Banglore and Hingna was also done.

IBM PUBLICATION SECTION

7.15 The Publication Section more or less functions as a full-fledged Publishing House of IBM operating within the precincts and responsibilities of the Bureau. As per the New Charter of Functions effectuated from 22.11.2014 post its notification in the Gazette of India, IBM fulfils the function, i.e., "collect, collate and organise into a database, all information on exploration, prospecting, mines and minerals in the country in the shape of National Mineral Information Repository and take steps to publish and disseminate the same." One of the vital channels adopted by the Bureau to disseminate the data/information on mines and minerals is through its publications.

The Publication Section of IBM constitutes Editorial, DTP, Production & Printing and Binding units. The functions include editing, designing & formatting and publishing of technical literature in the form of Indian Minerals Yearbook and various other periodicals, technical bulletins, monographs, newsletter etc. The Section also initiates price fixation

mechanism for all the publications published at IBM. It also undertakes complimentary distribution and sale of publications and formalises agreements for mutual exchange of publications with organisations of repute in India and abroad. The section generated a revenue of Rs 3,63,844/- through sale of publications in 2014-15.

Thus, the Publication Section through its in-house printing facilities which involve Photo-offset Printing Units fulfills all printing needs of the Bureau besides printing of publications. The in-house printing facility or IBM Press during the period ending 31 March, 2015 undertook printing of approximately 9.29 lakh page impressions of various publications, reports, newsletter etc. A list of publications released during 2014-15 is placed at **Annexure VII**.

MINING AND MINERAL STATISTICS DIVISION

The Mining and Mineral Statistics (MMS) Division is assigned with the responsibility of maintaining data base on mineral sector. This Division furnishes data on mineral sector on regular basis to Ministry and Central & State govt. organizations. The data mainly comprises of mineral production & value, index of mineral production, average sale price of specified minerals for computation of royalty by state govt., export/import related information etc. This division is headed by a Deputy Director General level officer from ISS Cadre and comprises of officers/officials of ISS & SSS Cadre and supported by Ministerial staff from IBM. During the year 2014-15, the following work was carried out:-

Database Management and Computerization

8.1 Mines Cum Production (MCP) Database

MMS Division receives monthly and annual returns in 16 prescribed formats under rule 45 of MCDR, 1988 from about 3800 mines regularly. Data entry and verification of 2590 Annual Returns received under MCDR for the year 2013-14 was completed. Outputs for the year 2013-14 and 2014-15 relating to labour, production, stocks and value were generated. Computerization of monthly returns for the year 2014-15 was taken up. Data entry and verification of data received in 31496 monthly returns were completed and provisional monthly statements generated for the year 2014-15. The Directory of Mines as on 31.03.2015 now contains 2972 reporting mines. A number of software application dynamic reports using SQL were developed to generate outputs from the MCP database.

8.2 External Trade Database

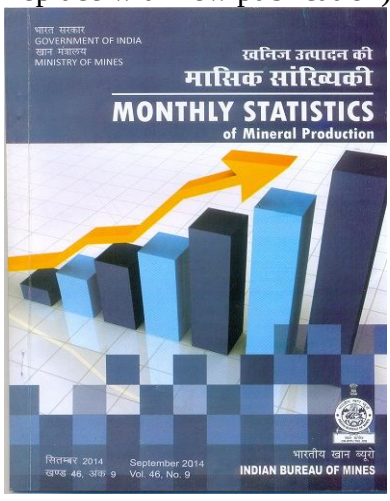
Data on external trade are collected from the Directorate General of Commercial Intelligence and Statistics (DGCI&S) in accordance with Indian Trade Classification based on Harmonized Commodity Description and Coding System. The data is collected annually in respect of more than 1300 commodities which cover minerals, metals and selected mineral based products. Export and Import data of minerals, metals and selected mineral based products received from DGCI&S for the year 2013-14 was processed and about 500 statements were generated.

Publications

8.3 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. During the year, 11 issues of the publication for the months of October 2013 to September 2014 were released.

(To replace with new publication)

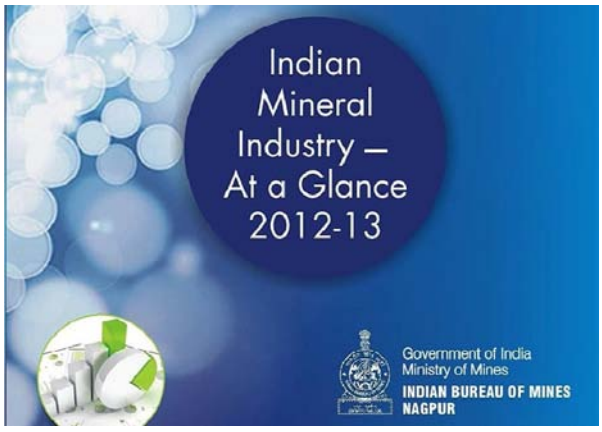


8.4 Statistical Profiles of Minerals (Annual)

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. The issue for 2013-14 has been released.

8.5 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 issue for 2012-13 has been finalized; issue for 2013-14 is under preparation.



8.6 Indian Minerals Yearbook (annual)

Statistical tables with reviews on national income, production, stocks, labour, exports, imports and prices covering major minerals, fuel minerals, minor minerals and metals along with detailed figures at the district and state level for IMYB 2014 is under preparation.

Statistical Reports and Data Dissemination

8.7 Reports on estimated value of monthly mineral production for March, 2014 to February, 2015 were sent to the Ministry of Mines.

8.8 Press Note on Monthly Mineral Production for February, 2014 to January 2015 was prepared and sent to the Ministry of Mines.

8.9 Material for answering 116 Parliament Questions giving information on various parameters like production, value, number of mines, labour, dispatches, stocks, exports, imports, etc; was prepared and supplied to other divisions/Ministry.

8.10 Ex-mine prices of 19 mineral grades for the months of February, 2014 to January 2015 were sent to the Ministry of Commerce and Industry, for computation of Wholesale Price Index.

8.11 Finalization of state wise average sale price for specified minerals for which royalty is chargeable on advalorem basis and not linked to any international bench mark prices. LME prices for the period up to October, 2013 (up to December 2013 for iron ore) were sent for hosting on the Web Site of IBM.

8.12 MMS Division is also engaged in collection, compilation and dissemination of secondary information collected on fuel minerals, minor minerals, trade, prices etc.

8.13 Data on different aspects of minerals and metals were provided to the Ministry and Central & State Governments as per requirement.

8.14 Information on production, value, stocks, dispatches, number of mines, index of mineral production, etc. was supplied to Central Statistics Office, for inclusion in their

publication namely: Statistical Abstract, Monthly Abstract of Statistics, Compendium of Environment Statistics, Directory of Statistics, India in Figures, Statistical Pocket Book, etc. Data on input cost was also sent to CSO for computation of Gross Domestic Product in respect of mining & quarrying sector for the year 2011-12 and 2012-13.

8.15 Mineral-wise deductible rates of all minerals for 2010-11 were provided to all the States Government for computation to State Domestic Product. Information on district-wise and mineral-wise number of mines, production and value was also sent to all the state Government for the years 2010-11 to 2012-13.

8.16 Growth in mining & quarrying sector

The total value of mineral production (excluding atomic mineral and also excluding value for February and March in respect of 31 minerals notified as minor minerals w. e. f. 10.02.2015 during 2014-15 (estimated) was Rs. 283232.03 crores, which shows an increase of about 0.06% over previous year. The fuel minerals accounted for Rs. 190633.81 crores or 67.31 percent, metallic minerals Rs. 38596.57 crores or 13.63 percent, non-metallic minerals (including minor minerals) Rs. 54001.66 cores or 19.07 percent of the total value. This was mainly due to low production of natural gas, petroleum (crude), iron ore, chromite, copper concentrate, diamond, dolomite, gold, gypsum, barites, silica sand and steatite. However, the production of some important minerals like lead concentrate, zinc concentrate, laterite and limestone has increased during the year.

The index of mineral production (base 2004-05=100) for the year 2014-15 was 126.5, which shows a positive growth of 1.5% over that of 2013-14.

8.17 External Trade

Export and import data of minerals, metals and selected minerals based products for the year 2013-14 was collected from the Directorate General of Commercial Intelligence & Statistics. The data thus collected were processed and above 500 statements were generated.

8.18 Minor Minerals

Information on quantity and value of production of minor minerals was collected on non-statutory basis from all the States and Union Territories. Data in respect of 24 minor minerals for the year 2011-12 was processed and finalized.

8.19 Fuel minerals

Data on monthly production of coal and lignite was collected from the office of the Coal Controller, Kolkata and similar data for petroleum (crude) and natural gas was collected from the Ministry of Petroleum & Natural Gas. These data were used for computation of index of mineral production and also for inclusion in the IMYB and other publications of IBM.

PLANING AND CO-ORDINATION DIVISION

The Planning and Co-ordination Division (P&C) comprises two sub-divisions namely, (i) Planning and Co-ordination (including Training); (ii) Administration Establishment Matters, Accounts with all other administrative and financial matters. This division is headed by Controller of Mines (Planning & Co-ordination) assisted by Technical Secretary and Chief Administrative Officer/Head of Office.

9.2 The Controller General, IBM is assisted by Controller of Mines (Planning & Co-ordination) as well as Technical Secretary (TS) in important technical and administrative matters. In this process in consultation with the Divisional Heads, they draw up, Five Year Plans, Annual Programme, Annual Action Plans, Performance Review of activities in IBM, Preparatory work for IBM Advisory meeting and other important meetings regarding plan proposals, reviews, performance, etc., in IBM as well as in the Ministry and take follow up actions. Material for inclusion in the Annual Report, Outcome Budget and Demands for Grants of the Ministry of Mines are also prepared. A brief account of activities carried out during the year is as follows.

Plans / Proposals of IBM

9.3 Following documents regarding plans/proposals were furnished to the Ministry:

i) Annual Plan, 2015-16

ii) Annual Action Plan, 2015-16

iii) Outcome Budget, 2015-16

iv) Material in respect of IBM for the Annual Report of Ministry of Mines, 2014-15

v) Result Framework Document (RFD) for IBM for 2014-15.

Parliament Questions & Ministry References

9.4 Coordinated regarding preparations of draft replies for the Ministry of Mines on 234 Parliament questions and 423 other Ministry references.

Notable Comments / notes / reports furnished by TS Section to the Ministry:

(i) **PMO Ref on Work Environment:** As per the directions received from PMO vide letter dated 17.6.2014 for improvement in Work Environment, instructions were issued to all Divisions for positive work environment, weeding out of files, reduction of decision making levels to maximum four, encourage use of ICT in submission of information etc and a committee was constituted for Simplification of Forms in vogue in IBM. Further a paragraph was added in monthly DO Letter of IBM for Minimum Government Max.Governance.

(ii) Monthly Progress Reports on the Activities of IBM for March 2014 to February 2015.

(iii) Preparing presentation and draft supplementary note for meeting to be chaired by Hon'ble Minister of Mines on 7.10.2014 (Meeting postponed), Performance Review upto 3rd quarter of FY 2014-15 and Achievements/highlights of Ministry of Mines in the current tenure of Hon'ble Minister of Steel & Mines

(iv) Preparing power point presentation for agenda papers, background notes on agenda items and relevant Budget papers for reference for review meetings by Secretary (Mines) held on 8.5.2014, 10.10.2014 & 20.11.2014.

(v) Background material for meeting held under the chairmanship of Addl. Secretary (Mines) on 1.7.2014 to review implementation of non-legislative measures of NMP 2008 & IBM Review

Restructuring Committee recommendations and those held on 17.12.2014, 14.1.2015, 23-24.2.2015 for MMDR Ordinance 2015.

(vi) Agenda and relevant background notes for Performance Review of IBM for FY 2014-15 held under the chairmanship of Joint Secretary (Mines) on 13.3.2015.

(vii) Furnished inputs for Demands for Grants 2014-15 & 2015-16 and replied questionnaire from the Standing Committee on Coal & Steel for Demands for Grants for FY 2014-15 & 2015-16 pertaining to IBM. Also furnished ATR on the Second Report on Demands for Grants (2014-15) pertaining to the Ministry of Mines and Prepared Notes on Organizational structure and performance of IBM for Review for the selection of subjects for detailed examination during the year 2014-15 in connection with ref. from Lok Sabha Secretariat.

(viii) Mid Term Appraisal of XII Five Year in various formats depicting scheme wise target vis-à-vis achievements year wise from 2012-13, 2013-14 & 2014-15 and anticipated in remaining two years of XII Plan as per references received from NITI Aayog, IF Div of MOM etc.was sent to ministry.

(ix) Supplied inputs for preparation of e-book by Ministry of Mines on major activities and achievements of the Ministry of Mines, Achievements of IBM for Press Information Bureau & for Budget Speech of Finance Minister, for ref from Ministry of Finance, Department of Expenditure, Office of Chief Advisor Cost on Revision of charges for services offered by IBM, Proposals for Legal Consultant for MDRD Division, Consultant for MTS Project etc.

Results-Framework Document (RFD) 2014-15

9.5 Results-Framework Document provides a summary of the most important results that a department/ministry expects to achieve during the financial year.

The RFD contains the following six sections:

Section 1: IBM's Vision, Mission, Objectives and Functions.

Section 2: *Inter se* priorities among key objectives, success indicators and targets.

Section 3: Trend values of the success indicators.

Section 4: Description and definition of success indicators and proposed measurement methodology.

Section 5: Specific performance requirements from other departments that are critical for delivering agreed results.

Section 6: Outcome / Impact of activities of department/ministry

IBM formulates its strategy through preparation of Five Year Plan and Annual Plan with budget proposals and then key objectives are derived from all of its schemes approved by Planning Commission. Accordingly, key objectives along with actions, success indicators and criteria values are set for RFD 2014-15. Units of success indicators provide clarity in understanding the progress made by the department.

The following are Key objectives:

1. Inspection of Mines.
2. Regional Mineral Development Studies (RMDS).
3. Preparation of Mineral Maps with Forest Overlays.
4. Development of Project on computerized online register of Mining Tenement System (MTS).
5. Ore Dressing Investigations.
6. Indian Minerals Year Book (IMYB).
7. Compilation of Monthly Statistics on Mineral Production (MSMP).
8. ISO 9001-2008 Certification for some Regional Offices of IBM.
9. Development of ore accounting software.
10. Technical Consultancy and mining research studies.
11. Implementation of IBM Review and Restructuring Committee Recommendations.
12. Internal Audit for MCDR Inspections.

13. Scrutiny and Processing of Statutory returns

After implementation of RFD system, IBM is able to deliver timely results and also improved its performance perception. Achievements are given in Annexure XVII.

Key IBM Objectives in Ministry's RFD 2014-15

9.6 Ministry of Mines during the preparation of its RFD, certain key objectives has been derived from IBM's schemes approved by Planning Commission.

The following are some key objectives related to IBM considered for Ministry's RFD:

- Preparation of sub Sector Reports for Rock Phosphate, aluminium and lead & zinc.
- Sustainable Development Framework (SDF) for the Mining Sector.
  - Implementation of SDF as a pilot Project in two States
  - Finalization of standard template for SDF for mining sector
- Mechanisms for bringing accountability in the mining sector.
  - To make mandatory, by suitable amendment in the MCDR 1988 f or online submission of returns under Rule 45 of MCDR 1988.
- Restructuring of functioning of IBM as per recommendation of the Committee constituted for the purpose
- Implementation of Project of Mining Tenement.
- Implementation of 9 non-legislative items of National Mineral Policy 2008 (IBM's non-legislative NMP actionable points Implementation of UNFC system of classification of mineral reserves Updating and publishing of 'National Mineral Inventory – At a Glance' as on 1.4.2013 for 25 select minerals

Visit of Secretary (Mines) to IBM HQ

9.7 Dr. Anup K. Pujari, Secretary, Ministry of Mines visited IBM Headquarters, Nagpur on 08 May, 2014. A briefing meeting was held in the Conference room of IBM. Shri K.Thomas, Controller General in charge IBM welcomed Secretary (Mines) and introduced Divisional/Zonal/Regional Heads and other officers present. A presentation on Functions, activities & issues of IBM was made by Shri Abhay Agrawal, Technical Secretary IBM. Secretary (Mines) in his address emphasized the need of improvement in an overall performance of the organization.

Dr. Anup K. Pujari, Secretary, Ministry of Mines again visited IBM Headquarters, Nagpur on 10 October, 2014. A briefing meeting was held in the Conference room of IBM and all the Divisional Heads and senior officers participated in the meeting. Discussions were held on various issues related to the activities of MCCM Division like inspection of mines, closure of mines, interpretation of word 'duly approved' mentioned in Section 5(2)(b) of MMDR Act, 1957 to amend/redefine the procedure of approval of mining plan by IBM, check list for preparation of mining plan and model of specific undertaking containing responsibility of lease holder etc. were held. Consequently a note on number of Final Mine Closure Plans (FMCP) approved since 2003 onward till 2013 with year wise and State wise details and the proposals furnished in the FMCP as well as capturing the proposals of mine reclamation was furnished to ministry.

Meeting held under the chairmanship of Additional Secretary (Mines)

9.8 Shri K.Thomas, Controller General in charge IBM along with S/Shri R.K. Sinha, COM, (Dr.) Y.G. Kale, RCOM, S. K. Adhikari, Sg.MG and Abhay Agrawal, DCOM & TS attended a meeting held under the chairmanship of Additional Secretary (Mines) regarding implementation of non-legislative measures as enumerated in the National Mineral Policy-2008 as well as implementation of recommendations of the

IBM Review & Restructuring Committee Report besides compilation of quarterly returns on illegal mining submitted by the State Governments on 21 April, 2014 at New Delhi.

Shri K.Thomas, Controller General in charge IBM along with S/Shri R. K. Sinha, COM, S.K. Adhikari, Sg.MG, R. N. Selvan, Sg. MG, Abhay Agrawal, DCOM&TS and Dr. GVGK Bhagwan, SMG attended a meeting held under the chairmanship of Additional Secretary (Mines) to review the implementation of non-legislative actionable points of NMP-2008 and recommendations of IBM Review & Restructuring Committee on 01 July, 2014 at New Delhi.

Indian Bureau of Mines-Geological Survey of India Synergy Meeting.

9.9 A meeting as a sequel to the IBM-GSI Synergy meeting held on 16.5.2013 and 1st follow up meeting held on 27.5.2013 at GSI Kolkata, was held at IBM Hqrs., Nagpur on 16 July, 2014. The meeting was attended by Shri K.Thomas, Controller General in charge IBM along with a team of senior officers from IBM, Dr. S. K. Wadhawan, DG, GSI with a team of senior officers from GSI and Dr. Gopal Dhawan, CMD, MECL with a team of officers from MECL.

Shri Abhay Agrawal, Dy.COM & Technical Secretary, IBM presented a brief outline of the synergy between the two organizations. Shri K.Thomas, Controller General in charge IBM welcomed the members and give concise sketch of important activities of IBM including the Mining Tenement System and Offshore Mineral Development. Dr. Wadhawan highlighted the progress of GSI work in the field of exploration, especially seabed exploration and geophysical surveys to locate concealed and deep seated mineral deposits. Dr.Gopal Dhawan informed about MECL's work in the field of 3D modelling of mineral deposits.

Various agenda points were discussed in detail and decisions taken for further strengthening the co-ordination, co-operation and collaborations between the two organizations. The meeting was ended on a cordial note of mutual cooperation by IBM, GSI & MECL.

Implementation of Recommendations of Review and Restructuring Committee of IBM

9.10 The Committee note that the Review and Restructuring Committee of IBM formed in July 2009 had submitted its report in May, 2012 with recommendations including a proposed human resource development and infrastructure development like new offices, new environmental laboratories, training centers, etc.

Three recommendations having no financial implications regarding renaming of divisions and new charter of functions of IBM were approved by Ministry vide Resolution No.31/49/2014-M.III on 03.11.2014 and notified in the Gazette of India on 22.11.2014.

IBM goes for ISO certification

9.11 As part of the Results Framework Document for 2014-15, Indian Bureau of Mines proposed to obtain ISO 9001-2008 Certification for its Jabalpur Regional office. The ISO 9000 family addresses various aspects of quality management and contains some of ISO's best known standards. The standards provide guidance and tools for companies and organizations who want to ensure that their products and services consistently meet customer's requirements, and that quality is consistently improved.

ISO 9001:2008 sets out the criteria for a quality management system and is the only standard in the family that can be certified to. It can be used by any organization, large or small, regardless of its field of activity. In fact ISO 9001:2008 is implemented by over one

million companies and organizations in over 170 countries. The standard is based on a number of quality management principles including a strong customer focus, the motivation and implication of top management, the process approach and continual improvement.

Under RFD 2012-13 & 2013-14, Ajmer, Bengaluru, Chennai, Goa, Hyderabad Kolkata, Nagpur, and Udaipur Regional Offices got ISO 9001-2008 certification. With this IBM has embarked upon the quality management standards and added another feather to its cap.

Generation of Revenue in IBM

9.12 The Indian Bureau of Mines generates revenue as incidental to the following activities:

- Beneficiation studies on low grade ores and minerals including mineralogical and chemical analysis on sponsored samples from other organizations and analysis of environmental parameters of air, water and soil.
- Technical Consultancy to Mining Industry on mining, geological, environmental and geo-technical assignments.
- Fee for processing of mining plans and scheme of mining.
- Compounding of offences under Mineral Conservation and Development Rules (MCDR) 1988.
- Sale of IBM's technical and statistical publications, mineral inventory datasheets, mineral maps and other data.
- During the year 2014-15, revenue of Rs. 94.55 Lakh has been generated on account of these activities.

IBM Foundation day "Khanij Divas" celebrated

9.13 IBM observed 1st March 2015 as "Khanij Diwas". Constituted immediately after independence of India, Indian Bureau of Mines completed 67 years of its glorious service to the nation.

The Indian Bureau of Mines (IBM) celebrated its 68th Foundation Day on 1st March, 2015 at its Headquarters, Indira Bhawan, Civil Lines, Nagpur.

Dr. Gopal Dhawan, Chairman-cum-Managing Director, Mineral Exploration Corporation Limited, Nagpur graced this function as a Chief Guest and Shri. K.Thomas, Controller General In-charge presided over the function.

The dais was also shared by Shri. Ranjan Sahai, Controller of Mines (P & C), Shri. R.K.Sinha, Controller of Mines (CZ) and Shri. Ivan Khess, Controller of Mines (TMP) & Convener of the function.

Speaking on the occasion, Shri. Ivan Khess, Controller of Mines & Convener in his welcome address briefed the journey of IBM since its inception to till date and also highlighted the objectives of the IBM with respect to promote systematic and scientific development and optimum utilization of mineral resources in the country (both on-shore and off-shore) with regard to recent resolution published in the Gazette of India on revised Charter of functions of Indian Bureau of Mines.

Dr. Gopal Dhawan, Chairman-cum-Managing Director, Mineral Exploration Corporation Limited, Nagpur counted the milestones and appreciated the work carried out by IBM in respect of mines control, conservation of mineral, systematic & scientific development of mines and environment protection in the field of mining industry as an advisor, regulator and facilitator. He was optimistic about IBM's ability to sail out of present turbulent transition phase of a number of hurdles.

On this occasion, Shri Ranjan Sahai, Controller of Mines (P & C) and Shri

R.K.Sinha, Controller of Mines (CZ) also shared their thoughts with the audience.

Speaking in his presidential address, Shri.K.Thomas, Controller General In-charge highlighted achievements of IBM during the last 67 years of services to the nation for development of mineral industry.

On this occasion senior retired officers were also present. The function was started with Saraswati Vandana followed by Invocation song on " Khanij Diwas" by Shri. Ashok Patel, AMG and his group who mesmerized one and all by his mellifluous voice. Vote of thanks was proposed by Shri. Harkesh Meena, Regional Controller of Mines & Programme Co-ordinator. Shri.Vinay Kumar Saxena conducted the proceedings of function in his impeccable style.

"Khanij Diwas" was also observed simultaneously at Zonal/Regional Offices and Regional Ore Dressing Laboratories of IBM with enthusiasm where various programmes were organised. Brief account of celebrations at Ajmer, Ranchi and Kolkata are given in Annexure XXI.

MINING & EXPLORATION CONVENTION AND TRADE SHOW, MINING MAZMA (FIMI), BANGALORE.

9.14 The Mining Mazma conference is a mining and exploration convention and Trade show hosted by Federation of Indian Minerals Industries (FIMI) was held at Bangalore Exhibition ground, Bangalore from 18th to 20th September-2014 with support of PDAC to provide unique opportunity for various stakeholders involved in Mining & Policy makers, exploration agencies, mining companies, regulatory bodies, technologist, economist investors including people from abroad, The Ministry & Mines sponsored this event. Total there were 70 stalls participated by both national and international exhibitors i.e China, Newzland, Peru, Canada etc.,

IBM Participated in FIMI-2014 and IBM stall was inaugurated by Shri. Narendra Singh Tomar, Honorable Union Minister of Mines, Steel, Labour & Employment, Govt. of India, and Shri A.K. Pujari, Secretary, Ministry of Mines, Govt. of India, Shri Tiu, COM(SZ), IBM, Bangalore, Shri Ram Mohan, RCOM, IBM, Bangalore and Smt. Indira Ravindran, SO(OD), RODL, IBM, Bangalore were also present. On the 2nd day of the convention Shri. Shridharan, Additional Secretary, Ministry of Mines, Govt. of India also visited IBM stall. IBM displayed charts regarding function and activities of IBM. Samples from Ore Dressing investigations was also displayed and books published by IBM for sales.

Participation in Leading International Mining Events Abroad

9.15 During the year 2014-15, Technical secretariat attended to correspondence for Bi-lateral Co-operation and processed proposals for participating six IBM officers for Indian Mining delegations to Switzerland, Canada and South Africa and two officers for Training under Technical Co-opearation Programme of the Government of Japan. Details are given in **Annexure III.**

Group training course on "Sustainable Mining Development" in Japan

9.15.1 Japan International Co. Agency (JICA) organizes a group training course on "Sustainable Mining Development" in Japan. The course was scheduled from 21.9.2014 to 06.12.2014. Shri Manish K. Menidratta, Deputy Controller of Mines & Shri Rajeev Ranjan, Assistant Controller of Mines were attended the above course as IBM nominees.

A total of 22 candidates from 13 countries participated in the above training course. Country reports presentation was made by each country on 26.09.2014. The course broadly consisted of 5 modules viz.

1. Situation of Mining Sectors and Global Mineral Resources.
2. Technological Aspects on Exploration and Mining Development.
3. Environmental measures & Mine Pollution Prevention Techniques.
4. Project Finance and Project Evaluation.

5. Preparation of Action Plan.

Candidates got an opportunity to see the application of advanced technologies in water purification and mineral processing. Candidates also got an opportunity to showcase/share their respective countries culture, heritage and advances in Science and Technology with school children of Kosaka town in Japan.

Shri Rajiv Ranjan, ACOM (left in first row) and Shri Manish Mendiratta, DCOM (Right in first row) of IBM attended group training in Japan

Capacity Building Program at Ontario, Ministry of Northern Development of Mines Sudbury, Canada

9.15.2 As members of delegation led by Shri Chandramani Sharma, Director (Mines), S/Shri Pankaj Kulshreshtha, RCOM, Jayakrishna BabuVarigonda, RCOM and P. Neniwal, DCOM visited Sudbury, Ontario, Canada during 27 September, 2014 to 04 October, 2014 for the capacity building program on Mine Closure Measures, Reclamation and Rehabilitation process. During the visit they studied the mining legislation and its administration, Mine Rehabilitation, Closure Plan & Financial Assurance Programme, Abandoned Mines Information System (AMIS), Ontario Geological Survey, and Aboriginal Relations etc. The delegation also made a presentation on Indian Mining Sector to showcase opportunities available with Indian mineral Sector.

Fifth session on Resource classification at Geneva, Switzerland:

9.15.3 Shri SK Adhikari, Chief Mining Geologist attended 5th Session of the expert group on resource classification atGeneva, Switzerland during 29th April 2014 to 2nd May 2014.

Seminars/ workshops

9.16 During the year 2014-15, Technical secretariat attended to correspondence regarding proposals of IBM officers for seminars, training etc and sent nominations of 29 officers for seven seminars/ workshops etc. Details are given in **Annexure IV.**

TRAINING CENTRE

The Training Centre of IBM is headed by the Director (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 and also for persons engaged in mining industry as well as overseas with the objective to provide them adequate orientation and updation in their fields of work.

10.1 During the year 2014-15, 16 training programmes comprising of 08 in-house, 05 training programmes for industry personnel, and 03 for the North Eastern personnel, were conducted. A total of 319 IBM officials, 37 participants from North-Eastern States and 291 industry personnel including 8 from North-Eastern States & 3 DGM officers were benefitted. Revenue of Rs. 22, 03,427/- was realized from the training programmes conducted for the industry personnel. The details of the courses conducted are as given below.

10.2 Training Programmes for IBM Personnel

1. Training programme on 'How to host the information newly designed Hindi website' for IBM Official on 22.05.2014 at Nagpur in which a total of 40 personnel from IBM participated.
2. Workshop on Implementation of RFD on 19.6.2014, 2014 at Nagpur in which a total of 38 personnel from IBM participated.
3. Workshop on Preparation of Feasibility Report on 20.6.2014 at Nagpur in which a total of 38 personnel from IBM participated.
4. Training on Advance Query Builder Report Builder and SQL+RDBMS on 11th – 12th August, 2014 at Nagpur in which a total of 40 personnel from IBM participated.
5. Training on Act & Rule relating to major minerals and provision of RTI Acts on 25th & 26th August, 2014 at Ajmer in which a total of 40 personnel from IBM participated.
6. Training on APAR and MCDR inspection on 11-12th November, 2014 at Nagpur in which a total of 37 personnel from IBM participated.
7. Training on Mine Reclamation & Rehabilitation on 7 & 8th January, 2015 at Nagpur in which a total of 31 personnel from IBM participated.
8. Training on NMI updation and UNFC on 17 &18th March, 2015 at Nagpur in which a total of 55 personnel from IBM participated.

10.3 Training Programme for Industry Personnel

1. Mineral Characterization in view of Beneficiation of Ores and Minerals on 18-19.6.14 at Bangalore in which a total of 30 personnel from industry participated.
2. E-filling of Monthly return and Annual return on 10-11th July, 2014 at Ajmer in which a total of 68 personnel from industry participated.
3. Training on exploration and reserve estimation as per UNFC for Industry Personnel on 28-30th October, 2014 at

Udaipur in which a total of 30 personnel from industry participated.

4. Training on Preparation of Mining Plan, SoM, PMCP, FMCP for Industry Personnel on 16-17th December, 2014 at Nagpur in which a total of 56 and 3 Senior Officers from DGM Office, MP State personnel from industry participated.
5. Training on e filling of Monthly return, Annual return and Form O on 11 & 12th February, 2015 at Hyderabad in which a total of 96 personnel from industry participated.

10.4 Training Programme for NER Personnel

1. Workshop-cum North East special assistance Meeting on 28-29th May, 2014 at Gangatok (Sikkim) in which a total of 14 Senior Officers of DGMs of North Eastern States participated.
2. Training course on Mineral Exploration and Opencast Mine Design with blasting techniques for NER from 17 to 19th September, 2014 at Shillong, Meghalaya in which a total of 13 Senior Officers of DGMs of North Eastern States and 8 North Eastern Region industry personnel participated.
3. Training on Mineralogical studies and clay beneficiation for NER on 27-28th November, 2014 at Nagpur in which a total of 10 Senior Officers of DGMs of North Eastern States participated.

Chapter XI
North Eastern Region Assistance Programme

North Eastern States have initiated programmes to search for mineral resources and to establish mineral based industries. Therefore the feasibility of the development of mineral resources needs to be studied. As per the directives of the Government 10% of the allotted plan budget of IBM is being spent for the development of North-Eastern Region/States. For closer interaction with the NE States, a Sub-regional office of IBM is functioning at Guwahati since April 1998.

Status of on-going Projects in NER

The then Department of Mines of Ministry of Coal & Mines vide OM No.TPPC/19/2003 dated 12.7.2004 had constituted an 'Empowered Committee' on Mineral Development in North Eastern Region (NER) with a view to facilitate the fast decision making process and to ensure time-bound action for sustainable development in NER. Terms of Reference of the Empowered Committee on Mineral Development in North Eastern Region are as follows:

1. To formulate policy guidelines and to take decisions for accelerating pace of development of mineral and mining sector.
2. To ensure flow of resources from Ministry of Development of NER, Department of Mines and other agencies for various projects/schemes related to mineral and mining sector (including upgradation of infrastructure)
3. To provide assistance for technological upgradation & modernisation of mineral and mining industry
4. To ensure capacity building for training and skill development.
5. To strengthen Directorates of Mines & Geology in North Eastern States.
6. Any other issue related to mineral and mining development

Out of the above 6 terms of references of the Empowered Committee, IBM is providing assistance to NER States under:

a) Terms of reference number 3: To provide assistance for technological upgradation & modernisation of mineral and mining industry
b) Terms of reference number 4: To ensure capacity building for training and skill development

11.1 The IBM will continue to look after the conservation and development of mineral resources of NE States. The report of the Committee for Review and Restructuring of the functions and Role of IBM has recommended to upgrade the Guwahati sub-Regional Office into a full fledged Regional office. This will boost the mineral developmental activities in the NE States.

11.2 IBM carried out the following activities in North Eastern States in 2014-15.

1. The Sub-Regional Office of IBM at Guwahati continued to undertake inspection of mines in North-Eastern Region. During the year 2014-15, 23 mines/areas in the States of Assam, Manipur and Meghalaya were inspected for enforcement of provisions of MCDR, 1988 and for processing and disposal.

2. Three training programmes viz.
    1. Workshop-cum North East special assistance Meeting on 28-29th May, 2014 at Gangatok (Sikkim) in which a total of 14 Senior Officers of DGMs of North Eastern States participated.
    2. Training course on Mineral Exploration and Opencast Mine Design with blasting techniques for NER from 17 to 19th September, 2014 at Shillong, Meghalaya in which a total of 13 Senior Officers of DGMs of North Eastern States and 8 North Eastern Region industry personnel participated.
    3. Training on Mineralogical studies and clay beneficiation for NER on 27-28th November, 2014 at Nagpur in which a total of 10 Senior Officers of DGMs of North Eastern States participated.

Revenue Expenditure of Rs.66.40 Lakhs have been made for running of Guwahati sub-Regional Office.

GENERAL ADMINISTRATION

The General Administration under Planning and Coordination Division deals with the establishment matters related to recruitment, budget, finance and accounts, purchase of stores, disbursement of salary and other claims and internal audit.

12.1 It is organized into the following sections: 1. Establishment(i) Gazetted and(ii) Non-Gazetted 2.Budget 3.Cash, Accounts& contingent Expenditure 4) Stores 5)General Administration 6)construction work of office & residential buildings and maintenance thereof 7) Internal Audit and 8) Vigilance

It is headed by the Chief Administrative Officer under the overall supervision of Controller of Mines (P&C).

12.2 Sanctioned vis-a vis filled Strength of IBM as on 31.3.2015

Sr. No	Group	Sanctioned strength	Filled up	Vacant
1	Group 'A'	244	139	105
2	Group 'B' (Gaz.)	177	115	62
3	Group 'B' (Non-Gaz.)	362	277	85
4	Group 'C' (Tech)	260	188	72
5	Group 'C'	434	353	81
	Total	**1477**	**1072**	**405**

12.3 During the year 2014-15, 32 new appointments, 29 promotions, 71 retirement cases were dealt. Vigorous efforts were continued to fill up the vacancies reserved for Scheduled Castes, Scheduled Tribes and OBCs.

12.4 Budget estimates, Revised Estimates vis-à-vis actual expenditure for 2014-15 are as under:

SCHEME-WISE FINANCIAL PERFORMANCE OF IBM DURING 2014-15

(Rs. in lakhs)

Name of the Schemes/project/ Programme	2014-15		
	Approved Outlay		
	BE	RE	Actual Expr.
Scheme No.1. Inspection of Mines for Scientific & Systematic mining, Mineral Conservation and Mine Environment	1535.00	1605.50	1357.16*
Scheme No.2. Mineral Beneficciation studies- Utilization of low grade & sub-grade ores and analysis of environmental samples	681.00	657.00	578.55
Scheme No.3. Technological upgradation & Modernization.	578.00	519.50	493.03
Scheme No.4. Collection, Processing, Dissemination of Data on Mines & Minerals through various publications.	264.00	241.00	221.03
Scheme No.5. Computerisation online Register on Mining Tenement System.	1500.00	00	00
****New Scheme 6:** Capacity building of State Govts. Development of implementation of ore accounting software.	00	00	00
Tribal Area Sub-Plan	212.00	127.00	00
Outlay (NER) : Revenue	129.00	--	--
NER : Capital	401.00	--	--
T O T A L PLAN (I B M)	**5300.00**	**3150.00**	**2649.77**
Total Non-Plan	**5352.00**	**5317.00**	**5253.07**

Note: * Inclusive of NER (Both Capital & Revenue) Budget
** Scheme is proposed to be shelved.

68th 'Independence Day' celebrated in Indian Bureau of Mines

12.5 The 68th Independence Day of the Republic of India was celebrated with great fervor and enthusiasm in Indian Bureau of Mines. The main function was held at IBM headquarters at Indira Bhavan, Nagpur. Shri K. Thomas, Controller General in charge, IBM, unfurled the National flag. Speaking on the occasion, Shri Thomas urged the officers and staff of IBM to rise to the occasion and put their best to perform the assigned task. He appealed to all the employees maintain good discipline and perform with dedication for effective and quality work. The function was attended by the large number of officers and staff of IBM.

66th 'Republic Day' celebrated in Indian Bureau of Mines.

12.6 The 66th Republic Day was celebrated with great fervor and enthusiasm in Indian Bureau of Mines on 26th January 2015. The main function was held at IBM headquarters at Indira Bhavan, Nagpur. Shri K. Thomas, Controller General in charge, IBM, unfurled the National Flag.

He appealed to all the employees to maintain good discipline and perform with dedication for effective and quality work. The function was attended by the large number of officers and staff of IBM. Shri Mujeeb U. Siddiqui, Deputy Mineral Economist (Int.) conducted the proceedings is an impressive manner.

Sadbhavana Divas observed in IBM.

12.7 Sadbhavana Divas (Rajeev Gandhi Birth Anniversary day) for communal harmony was observed with great fanfare at IBM Headquarters and all its offices on 20th August 2014. The observance of Sadvhavana Pakhwara commenced on 20th August 2014 In the main function held at IBM Headquarters, the programme started with garlanding of the portrait of Late Shri Rajiv Gandhi, former Prime Minister of India by Shri K. Thomas, Controller General in charge, Indian Bureau of Mines.

National Integration (Quami Ekta) Week

12.8 As per directions of Government of India of India, 19th November, Birthday of late Prime Minister of India, Mrs. Indira Gandhi was observed as National Integration (Quami Ekta) day. All the employees have taken pledge of National Integration. A number of programmers were organized from 19.11.2014 to 25.11.2014 on the themes of National Integration, Minority Welfare, Weaker Section, Cultural Unity, Women & defence etc.

Redressal of Grievances & Welfare Measures

Work Done Concerning Women (Perspective Plan for Women)

12.9 Indian Bureau of Mines work on principle of equal opportunity to all and based on this, out of a total filled up strength of employees, women employees constitute about 12.36 percent. Training is imparted to women employees in the field of technical as well as administrative matters. Women employees are also actively participating in various cultural and extracurricular activities organized by IBM from time to time.

International Women's Day in IBM

12.10 Under the National Policy for Women, a programme to celebrate International Women's Day was organized at IBM Headquarters, Nagpur on 28 March, 2015. Smt. Meera Khadakkar, Ex. Principal Judge, Family Court, Nagpur was the Chief Guest while Controller general in charge IBM presided over the function. On this occasion Smt. Kadakkar spoke on the role of women in family building and advised the women to maintain healthy family atmosphere. Shri Ranjan Sahai, COM was the Guest of Honor and Dr. Smt. Sandhya Lal, SOOD &

Chairperson of Women Empowerment Committee, IBM delivered a welcome speech. Large number of women employees attended the programme with enthusiasm.

Committee to redress complaint regarding sexual harassment of women in the workplace

12.11 To ensure a safe, secure and healthy environment for women at the workplace, as per directions of Hon'ble Supreme Court, a complaint committee has been constituted in IBM. Committee functions to redress the complaint made by the victims of sexual harassment at work place in a time bound manner.

Dr.(Mrs.) Sandhya Lal, Suptdg. Officer Ore Dressing Officer, Indian Bureau of Mines has been nominated as Chairperson of the Committee. Contact address of Dr.(Mrs.) **Sandhya Lal,** is as given below:

Dr.(Mrs.) Sandhya Lal,
Suptdg. Officer Ore Dressing (SOOD)
Modern Mineral Processing Lab.
& Pilot Plant, IBM
L-8, MIDC Industrial Area, Hingna Road
Nagpur - 440 016.
Telephone 07104 234441
Email smlal@ibm.gov.in, ibmhngn@bsnl.in

Measures for persons with Disabilities

12.12 IBM is strictly following the various instructions of the Government issued from time to time regarding reservation of vacancies for persons with physical disabilities. As on 31st March 2015, 12 physically handicapped persons were under employment in IBM of which 03 are visually handicapped, 01 is hearing handicapped and 08 are orthopedically handicapped.

Liaison Officer for SC/ST/OBC and PWD

12.13 Shri D.W.Beck, Mineral Economist has been nominated as Liaison Officer for SC/ST/OBC and PWD to look after the welfare measures. Contact address of **Shri D.W.Beck, Mineral Economist** Liaison Officer for SC/ST/OBC and PWD is as given below:

Shri D.W.Beck, Telephone Nos.
3rd Floor, 'D' Block, 0712-2565471
Indira Bhavan, 0712-2565500-PBX
Civil Lines,
Nagpur - 440 001.

Redressal of Public Grievances

12.14 There is a Public Grievances Cell in IBM for taking care of Grievances of services matters of employees and also public. Shri S.K.Adhikari, Chief Mining Geologist, Indian Bureau of Mines, is nominated as Director of Grievances. Contact address of Shri S.K.Adhikari, Director of Grievances is as follows:

Shri S.K.Adhikari,
1st Floor, 'D' Block,
Indira Bhavan, Civil Lines,
Nagpur - 440 001
Telephone No. / Fax No. 91-712 - 2561267
E mail skadhikari@ibm.gov.in

At the beginning of the year, 05 grievance cases were pending. During the year 2014-15, 41 cases were received, 45 cases were disposed off. Online facility for Registration for Public Grievances has already been provided by linking IBM website with the Grievance Portal of DoPT "Central PGRAMS".

Vigilance cases

12.15 During the year 2014-15 During the year 2014-15 (up to December 2014), 24 complaints were received of which 14 were brought to their logical conclusion after investigation. Besides, 04 complaints were sent to the Administrative Wing of the Department, 02 complaints sent to PAO, IBM and 1 complaint sent to Estate Manager, Nagpur for necessary action and the remaining 03 cases were under investigation. In addition

to this, 01 case is under investigation with Inquiry Officer, IBM and 01 case is under scrutiny with Ministry of Mines, New Delhi. In one case charges against one officer were dropped by Ministry. In another case, two officers have been placed under suspension by Ministry. Besides, 433 Vigilance Clearance Certificates were issued in respect of officers and staff during the period.

12.16 Vigilance Awareness Week was observed in the IBM HQs at Nagpur and in all the Regional Offices during 27th October 2014 to 1st November 2014. During the Week, essay and debate competitions for vigilance awareness were organized.

Launching of Swachchha Bharat Abhiyan

12.17 With the beginning of the quarter October-December, 2014, Swachh Bharat Abhiyan as envisaged by our Hon'ble Prime Minister was started at IBM. The cleanliness activities were initiated in IBM on 2nd October 2014. Further, as per the directions of Ministry of Mine, intensive drive for cleanliness was carried out from 25.10.2014 to 31.10.2014 at IBM HQ as well as all the Zonal/Regional Offices and Regional Ore Dressing Laboratories.

The activities under intensive "Swachh Bharat Abhiyan" were continued for five days. In addition to face lift and beautification of the front visible areas; special emphasis was given on cleaning of places which are usually overlooked during routine cleaning such as emergency staircases, Record Rooms, unoccupied cabins, store rooms, waste disposal bins/ducts, cooling system rooms, terraces, cabins/rooms/places used for storing old/additional furniture items /equipments etc.

While cleaning these areas the unserviceable/obsolete items were identified and action was initiated for the disposal of the same as per laid down procedure. Office premises were cleaned thoroughly by uprooting weeds, collecting & disposing litter, waste, and improving the overall appearance in aesthetic manner. All the employees participated with enthusiasm in the activities. This week long intensive Abhiyan has created lot of awareness about cleanliness and neatness among the employees and their enthusiasm will be helpful in maintaining the office and premises neat and clean on routine basis.

Cleanliness drive has increased awareness amongst the employees towards cleanliness in the office premises and their own responsibility to contribute for cleanliness. Region-wise brief account of activities in this regard is given in **Annexure XXII.**

Bio-metric attendance system

12.18 IBM initiated **Bio-metric attendance system** from August, 2014. As per directions of the Government, process for installation of an AADHAR Enabled Bio-metric Attendance System (AEBAS) in all offices of IBM is in progress.

Right to Information Act, 2005

12.19 Consequent to the enactment of the Right to Information Act, 2005, IBM has been receiving various requests under RTI Act which are timely responded to. At the beginning of the year 2014-15, 06 applications were pending and during the year, 561 applications were received. 525 applications were disposed off within the stipulated time frame. Information was denied under Section 8(1), 9, 11, 24 etc of RTI Act in 30 cases and 12 cases were under processing at the end of the year.

Similarly, at the beginning of the year, 1 first appeal was pending and during the year 35 first appeals were received. 35 first appeals were disposed off within the stipulated time frame and 01 appeal was under processing at the end of the year.

Similarly, at the beginning of the year, 16 second appeals were pending with CIC and

during the year 01 second appeal was filed. One second appeals was decided in favour of Organization. Out of the 16 pending cases, 8 cases have been heard by CIC on 13.12.2012 for which orders are awaited. Remaining 8 cases have to be heard by CIC.

COMPUTERISATION in IBM

13.1 Historical Background of Computerization in IBM

The history of computerization in IBM can be traced back in early seventies of the previous century. The computerization in IBM started with a small punch card system under the control of the Mineral Statistics Section of the erstwhile Mineral Economics Division. The work of this erstwhile division grew many folds and a Mineral Statistics section was upgraded to Mineral Statistics Division.

13.2 Development of MRIS Database

After this era, the better version of computers and system software was introduced into the computer centre and working on client-server architecture was commenced through the local area network (LAN). During those days IBM had National Mineral Inventory (NMI), Mining Lease (ML), Mine-cum-Production (MCP), External Trade (ET), Mineral Consumption (MC) and World Mineral Intelligence (WMI) database modules.

13.3 Establishment of TMIS Database

The MCCM module was designed and developed as per the provisions of Mineral Conservation & Development Rules, 1988. The already existing database modules of the erstwhile MRIS were modified and the new relational database management system was developed under client-server architecture. This new system was named as Technical Management Information System (TMIS). There are seven databases in TMIS database system. TECHNICAL MANAGEMENT INFORMATION SYSTEM (TMIS). Under TMIS project the then existing data bases were upgraded to higher version of software. These databases are:

1. National Mineral Inventory (NMI)
2. Mines-cum-Production (MCP)
3. Mining Leases (ML)
4. Mineral Consumption (MC)
5. External Trade (ET)
6. World Mineral Intelligence (WMI)
7. MCCM Database.

1. National Mineral Inventory (NMI) Database: It is a database of mineral deposits. It contains inventory information of 65 mineral commodities. It covers about 16000 deposits including free-hold and lease-hold areas.

2. Mining Leases (ML)Database: This is a database of mining leases and prospecting licenses. It covers information on mining leases for major minerals. The database is based on the data received from the State Directorates of Geology and Mining.

3. Mineral Consumption (MC) Database: This database contains data pertaining to consumption of mineral raw material in different industries. Data is useful for projection of future demands, formulation of industrial policy, identifying priority areas for exploration, monitoring consumption norms, R&D activities in the field of substitution, etc. Mineral consumption data is collected from about 3000 consuming plants on non-statutory basis annually.

4. **World Mineral Intelligence (WMI) Database:** It contains information on foreign trade, mineral production, consumption, mineral resources of various countries. Each record of WMI database includes information on commodity name, country, exports, imports, prices, production, consumption, reserves, resources, beneficiation plant, source of information, etc.

5. **Mines-cum-Production (MCP) Database:** This data base is maintained by MMS Division. This data base maintains the information received, in the form of monthly, annual & explosive returns from 3000 mines in pre-specified formats, under Rule 45 of the MCDR, 1988. Data received are processed for input of various publications namely, Monthly Statistics of Mineral Production (MSMP), Statistical Profiles of Minerals, Indian Mineral Industry at a Glance, Indian Minerals Year Book (IMYB) & Mine Directory.

6. External Trade (ET) Database : Data received from DGCIS Kolkata, data compiled on Indian Trade Classification based on Harmonized Commodity Description and Coding System (ITC(HS)), exports and imports for about 1300 commodities for minerals, metals and selected mineral based products. Output generation of various output for import-export in respect of minerals, metals and selected mineral based products.

7. **MCCM database** is designed & developed to administer the MCDR'88 for monitoring the Mining activities of the country through MCCM division.

The main components of MCCM database are data contained in Prospecting License, Mining Plan, MCDR Inspection. In addition data generated through MCDR Inspection and information received through Statutory Notices and also the main aspect of activity of IBM officers (individual activity) and offices (collective results) are included in MCCM database.

Under TMIS, all these databases on mines and minerals are maintained and IBM website and Web portal are regularly updated.

The new web portal of IBM is updated regularly. Further, the Centre has developed a system of entering data from Regional Office to National Server at IBM Central Head Quarter and the same has been made operational using Wide Area Network. Back-up of National database server is also being studied by IBM to make the facility available to restore the data in case of crash.

13.4 Website

New website of Indian Bureau of Mines

A new Web Portal of IBM as per the guidelines of Government of India was designed by National Informatics Centre (NIC) and hosted on its server in July, 2010 at www.ibm.gov.in. Information regarding IBM's history, functions, organization, divisions of IBM and its activities, jurisdiction of regional & zonal offices, services offered by IBM, Mining Plans - guidelines/ formats/circulars thereof, RQPs - guidelines/ formats thereof, UNFC

guidelines, Mining Laws, Mineral Information like mineral reserves, value, royalty and dead rent, details of reconnaissance permits, threshold values, notices & returns under MCDR, 1988, Online submission of Returns / Guidelines, IBM restructuring committee report, Recruitment results / advertisements, Draft Seniority List of Staff, Mining Leases distribution data, Indian Mineral Year Book 2013, Various Bulletins/ Publications, Offshore Mineral Concession Rules, Notification & Form G thereof, Tenders, RTI information, Photo gallery, etc, has been displayed on the web portal. There is also provision for online submission of Vigilance Complaints and Grievances.

13.5 Computerized Online Register of Mining Tenements System: A scheme on Computerized Online Register of Mining Tenements system was taken up by the IBM during the programme year 2009-10. The objective of the Scheme is to develop an online National Mineral Information System for investors by linking Central and State organizations engaged in administration of mineral resources in the country. Details of the Project are given in the Chapter No. III.

13.6 IBM has implemented "IT Infrastructure Security Policy (version 1.0 of 2006)" with a view to implementing Information Security to safeguard information infrastructure from possible attack through Internet or corruption, compromise of data etc,

Mineral Concession Approval System (MCAS)

IBM module of MCAS developed by NIC is related to data on RP/PL/ML areas as a part of the extension of existing mineral concession approval system, which is in operation at Ministry of Mines. This module covers data pertaining to letter of intent (LOI) MP/SOM, grant of concessions and renewals by State Govt., filing returns, etc. This online mineral concession system is mainly developed for monitoring the status of Mineral Concession granted/renewed by the Ministry of Mines. This system has already gone online from 2010 and can be accessed at www.mcas.nic.in. This Module is an online database which has to be logged in with appropriate user name & pass word and data has to be entered into certain sub modules. The main IBM Module comprises:

i) Add Concession (LOI)
ii) Update concession (extension of LOI, etc,)
iii) MP/SOM/PMCP/FMCP
iv) Grant of concession/renewals (RP/PL/ML)
v) Update grant/renewal
vi) Commencement of mining operation
vii) Annual returns (RP & PL)
viii) Current status of the Mineral Concession granted/renewed

IBM report Module was also developed to see the various outputs generated by the data entry made under IBM Module under this Module:

i) MP/SOM Status
ii) PL/RP status
iii) LOI status reports
iv) Status of a concession/mine

IBM has already directed all its Regional Offices that "after disposal of mining plans/ modified mining plans, the necessary entries should invariably be made in the Mineral Concession Approval System (MCAS) database before it is issued to the respective applicant". Henceforth, all mining plan details including approvals, modifications, rejections etc will be available in the portal.

Online Return Submission System:

As a result of amendment to Rule 45 of MCDR, 1988 vide notification No. 75(E), dated 9th February, 2011, it was decided to create a portal of IBM to facilitate online registration of miners, traders, stockiest, exporters and end users of mineral and submission of monthly and annual return thereon. Accordingly, after introduction of online submission of returns system, 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 monthly returns. All queries received regarding the problems faced by the mine owners are resolved from time to time.

Month-wise Returns Submitted Online
(April, 2014 to March, 2015)

Sl No.	Month	No. of Monthly Returns Received online
1	April, 2014	1480
2	May, 2014	1482
3	June, 2014	1481
4	July, 2014	1472
5	August, 2014	1466
6	September, 2014	1448
7	October, 2014	1459
8	November, 2014	1456
9	December, 2014	1454
10	January, 2015	1463
11	February, 2015	1446
12	March, 2015	1396
	Total	**17053**

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<u>हिन्दी अनुभाग</u>

अप्रैल 2014 से मार्च 2015 के दौरान हिंदी से संबंधित कार्यों का विवरण

भारत सरकार की राजभाषा नीति के कार्यान्वयन में भारतीय खान ब्यूरो सतत् प्रगतिशील पथ पर अग्रणी है । ब्यूरो का मुख्यालय ख क्षेत्र में स्थित है । क क्षेत्र में 5 कार्यालय तथा शेष कार्यालय ग क्षेत्र में स्थित हैं। जहाँ तक क क्षेत्र का सवाल है वहां सभी कार्यालयों मेंराजभाषा विभाग द्वारा निर्धारित लक्ष्य के अनुसार पत्राचार किया गया एवं हिन्दी के प्रचार एवं प्रसार के लिए अन्य विविध कार्यक्रमों का आयोजन किया गया । ख क्षेत्र मुख्यालय में भी हिंदी से संबंधित अनेक कार्यक्रम आयोजित किए गए तथा हिंदी पत्राचार का लक्ष्य लगभग प्राप्त कर लिया गया है । उल्लेखनीय है कि भारतीय खान ब्यूरो के क(5) एवं ख क्षेत्र स्थित सभी कार्यालय राजभाषानियम 1976 के नियम 10(4) के अंतर्गत अधिसूचित हैं । ख (1) क्षेत्र स्थित कार्यालय में भी सरकार द्वारा निर्धारित लक्ष्य के अनुसार हिंदी में पत्राचार किया तथा अन्य हिंदी से संबंधित गतिविधियां जैसे हिंदी पखवाड़ा, हिन्दी कार्यशाला आदि का आयोजन किया गया । ग क्षेत्र में ब्यूरो के दो कार्यालयों को छोड़कर सभी (5)कार्यालय नियम 10(4) के अंतर्गत अधिसूचित हैं । वर्ष 2014-15 के दौरान हिंदी से संबंधित प्रगति का विवरण निम्नवत है :-

1. **मुख्यालय में विभागीय राजभाषा कार्यान्वयन समिति की बैठक -**

दिनांक 15/4/2014 को राजभाषा कार्यान्वयन समिति की 90वीं बैठक, दिनांक 20/08/2014 को 91वीं बैठक, दिनांक 12/12/2014 को 92वीं बैठक एवं

दिनांक 27/03/2015 को 93 वीं बैठक का आयोजन महानियंत्रक भारतीय खान ब्यूरो की अध्यक्षता में किया गया । इन बैठकों में समिति द्वारा पिछली बैठक के कार्यवाही की पुष्टि की गई साथ ही अन्य महत्वपूर्ण विषयों जैसे हिंदी प्रगति रिपोर्ट की समीक्षा हिंदी शिक्षण एवं प्रशिक्षण की स्थिति हिंदी पुस्तकों की खरीद मुख्यालय एवं क्षेत्रीय कार्यशालाओं का आयोजन आदि पर विचार विमर्श किया गया तथा इन बैठकों में अध्यक्ष महोदय द्वारा उचित निर्देश भी दिए गए । साथ ही मुख्यालय सहित सभी क्षेत्रीय कार्यालयों में भी राजभाषा कार्यान्वयन समिति की बैठकों का नियमित आयोजन किया जाता है ओर रिपोर्ट मुख्यालय को भेजी जाती है ।

2. मुख्यालय में हिंदी पखवाड़े का आयोजन : श्री के. थॉमस,महानियंत्रक भारतीय खान ब्यूरोनागपुर के मार्ग निर्देशन में दिनांक 2/9/2014 से 15 /9/2014 तक हिंदी पखवाड़ा का आयोजन सफलतापूर्वक किया गया । पखवाड़ेके दौरान हिंदी निबंध,टिप्पण आलेखन,हिंदी सुलेखन,परिसंवाद,तात्कालिक भाषण एवं हिंदी प्रश्नमंच प्रतियोगिताओं का आयोजन किया गया । श्रीके.थॉमस, महानियंत्रक महोदय एवं प्रा. डॉ. एन निकमने दिनांक 15/09/2014को हिंदी प्रतियोगिताओं के विजेताओं को पुरस्कारों से सम्मानित किया ।

3. मुख्यालय में हिंदी दिवस का आयोजन : महानियंत्रक महोदय की अध्यक्षता में दिनांक 15 सितम्बर2014 को हिंदी दिवस समारोह का आयोजन किया गया तथा इस अवसर पर श्री डॉ पी.के. जैन, राजभाषा अधिकारी द्वारा माननीय गृह मंत्री श्री राजनाथ सिंह केसंदेश कावाचन किया गया ।

4. अनुवाद कार्य : वर्ष के दौरान विभिन्न महत्वपूर्ण तकनीकी एवं प्रशासनिकदस्तावेजों का हिंदी का अनुवाद किया गया ।वर्ष 2014 -15 एवं 2015 - 16 के लिए आउट कम बजट एवं खान मंत्रालय की वार्षिक रिपोर्ट जो करीब 200 पृष्ठों का था का हिंदी अनुवाद किया गया । इसके अतिरिक्त खान एवं खनिज सांख्यिकी प्रभाग से प्राप्त वार्षिक विवरणियों को 12 पृष्ठों का हिंदी अनुवाद किया गया । साथ ही मंत्रालय से प्राप्त अध्याय 5 भारतीय खान ब्यूरो का संस्थागत स्वरूप एवं कार्य निष्पादन एक पुनरावलोकन जो तकरीबन 35 पृष्ठों का था हिंदी अनुवाद किया गया । इसके साथ हिन्दी बेवसाइट की सामग्री जो करीब 90 पृष्ठों का था, का भी अनुवाद किया गया।

5. **नराकासनागपुर के तत्वावधान में आयोजित प्रतियोगिताओं में भारतीय खान ब्यूरो की सहभागिता** : नराकास नागपुर के तत्वावधान में आयोजित विभिन्न प्रतियोगिताओं में भारतीय खान ब्यूरो के अधिकारी एवं कर्मचारी प्रमुखत: से भाग लेते हैं । गत वर्ष 3 अधिकारियों एवंकर्मचारियों को नराकास से पुरस्कारप्राप्त हुआ है ।

6. राजभाषा निरीक्षण : मुख्यालय से मुख्य खनन भूविज्ञानी श्री एम सेनगुप्ता द्वारादिनांक 21/4/14 एवं 22/04/14 कोरॉ चीक्षेत्रीयकार्यालय का राजभाषा निरीक्षण किया गया । इसी प्रकार श्री एम वी सहस्त्रबुद्धे, राजभाषा अधिकारी द्वारा दिनांक 14/07/14 को देहरादून क्षेत्रीय कार्यालय तथा 16/07/14 को उत्तरांचल कार्यालय, भारतीय खान ब्यूरो अजमेर का राजभाषा निरीक्षण किया गया । इसके साथ ही मुख्यालय स्थित खान नियंत्रक मध्य तकनीकी सचिव

अनुभाग, जी. एम. सेल, बजट अनुभाग खनन एवं खनिज सांख्यिकी प्रभाग एवं लेखा अनुभाग का भी राजभाषा निरीक्षण किया गया ।

7. हिन्दी कार्यशाला :दिनांक 26 एवं 27 फरवरी 2015 को मुख्यालय में दो दिवसीय हिन्दी कार्यशाला का आयोजन किया गया जिसमें 17 कार्मिकों ने भाग लिया ।

Annexure- I

Composition of IBM Advisory Board*

Chairman

1. Secretary,
Ministry of Mines,
Shastri Bhavan, New Delhi 110115

Members

2. Sp. Secretary/Additional Secretary,
Ministry of Mines
Shastri Bhavan, New Delhi 110115
3. Additional/Joint Secretary &
Financial Advisor, Ministry of Mines.
Shastri Bhavan, New Delhi 110115
4. Joint Secretary (In charge, IBM),
Ministry of Mines
Shastri Bhavan, New Delhi 110115
5. Director/Deputy Secretary (In charge of IBM), Ministry of Mines
Shastri Bhavan,
New Delhi 110115
6. Controller General,
Indian Bureau of Mines,
Civil Lines, Nagpur 440001.
7. Director General,
Geological Survey of India,
27, J.L.Nehru Road, Kolkata 700016
8. Director General,
Directorate of Mines Safety,
Dhanbad
9. Adviser(I &M),
Planning Commission,
Yojna Bhavan, Sansad Marg,
New Delhi.110001
10. A Representative of Ministry of Steel,
Udyog Bhavan, New Delhi.
11. A Representative of Department of Science & Technology,New Delhi.
12. A Representative of Ministry of Environment & Forests, New Delhi.
13. President/Secretary General,
Federation of Indian Mineral Industries, 301, Bakshi House, 40-41
Nehru Place, New Delhi.110019

Members

14. A Representative of Government of Odisha
15. A Representative of Government of Chhattisgarh
16. A Representative of Government of Gujarat.
17. A Representative of Government of Andhra Pradesh
18. A Representative of Government of Rajasthan
19. A Representative of Government of Karnataka
20. A Representative of Government of Goa
21. Chairman-cum-Managing Director,
Hindustan Copper Limited, Kolkata.
22. Chairman-cum-Managing Director,
National Aluminium Company Ltd.,
Bhubaneshwar.
23. Chairman-cum-Managing Director,
MOIL Ltd. Nagpur
24. Director,
National Metallurgical Laboratory,
Jamshedpur
25. Director,
Indian School of Mines, Dhanbad.
26. Professor,
Department of Mining, VNIT, Nagpur
27. Any other member as special invitee.
28. **Member Secretary**
Technical Secretary to Controller General, Indian Bureau of Mines,
Nagpur

* Composition of IBM Advisory Board as per Resolution No.35/1/2011-M.III dated 3rd July, 2012.Tenure of the Board was for two years which was expired in July, 2014. Process for re-constitution of the Board is in progress.

Annexure - II

LIST OF ORE DRESSING INVESTIGATIONS COMPLETED (APRIL, 2014 TO MARCH, 2015)

MODERN MINERAL PROCESSING LABORATORY & PILOT PLANT, NAGPUR	
2017 F/C	Bench Scale beneficiation of a low grade ROM iron ore sample from Sagar, MP for M/s Modi Minerals Ltd., Sagar M.P.
2018 L/NC	Limited beneficiation test on a Bauxite sample from Kujam-2, Jharkhand (Under RMD Studies).
2019 L/NC	Limited beneficiation test on a Bauxite sample from Sherangdag-3, Jharkhand (Under RMD Studies).
2020 f/NC	Bench scale beneficiation studies on Saruabil mines COB plant tails sample from Jajpur, Odisha of M/s Misrilal Mines Pvt. Ltd., Dist. Jajpur, Odisha (Under RMD Studies).
2021 L/NC	Characterization of Laterite/iron ore sample (No.7) from Dhamki mines of M/s Shobha Minerals through RCOM, Jabalpur, M.P. (Under RMD studies).
2022 L/NC	Characterization of Laterite/iron ore sample (No.8) from Hridayanagar mines of M/s Srikant Pandey through RCOM, Jabalpur, M.P. (Under RMD studies).
2023 f/NC	Bench scale beneficiation studies on low grade iron ore sample from M/s Sriram Mineral Company, Chaibasa, distt., Singhbhum(W), Jharkhand (Under RMG Studies).
2024 2L/NC	Characterization & two limited scale beneficiation studies on Laterite iron ore sample (No.9) Gandhigram Mine, Jabalpur M.P. through RCOM, Jabalpur (Under RMD studies).
2025 2L/NC	Characterization & two limited scale beneficiation studies on Laterite iron ore sample (No.10) from Gandhigram Mine of M/s Capital Mineral, Jabalpur M.P. through RCOM, Jabalpur (Under RMD studies).
2026 f/C	Bench scale beneficiation studies on a Ball mill feed sample from Malanjkhand Copper Concentrator, Distt. Balaghat, MP for M/s Hindustan Copper Limited.
2027 2L/NC	Characterisation and two limited scale beneficiation studies on a ferruginous Bauxite sample from Bagruhill, Ranchi area Jharkhand for RCOM, IBM Ranchi, Jharkhand (Under RMD studies.).
2028 2L/NC	Characterisation and two limited scale beneficiation studies on a ferruginous Bauxite sample from Kujam Mine, Ranchi area Jharkhand for RCOM, IBM Ranchi, Jharkhand (Under RMD studies.).

2029 2L/NC	Characterisation and two limited scale beneficiation studies on a ferruginous Red Mud sample from Muri Alumina Plant of M/s Hindalco, Ranchi area Jharkhand for RCOM, IBM Ranchi, Jharkhand (Under RMD studies.).
2030 2L/NC	Limited scale beneficiation studies on Bauxite sample (No.5) collected from Mines of Lohardaga/Gumla distt., Jharkhand (Under RMD studies).
2031 2L/NC	Characterization studies & two limited scale beneficiation studies on Laterite/iron ore sample (No. 5) from Dhamaki mines of M/s Shobha Minerals, Jabalpur, M.P. (under RMD studies).
2032 2L/NC	Characterization studies & two limited scale beneficiation studies on Laterite/iron ore sample (No. 6) from Dhamaki mines of M/s Shobha Minerals, Jabalpur, M.P. (under RMD studies).
2033 L/NC	Characterization & limited Scale beneficiation studies on an Iron/manganese ore sample from Mansakhra mines, Jabalpur area, M.P. of M/s Suryawansam Mining & Minerals for RCOM, IBM, Jabalpur (under RMD studies).
2034 L/NC	Characterization & limited Scale beneficiation studies on an Iron/manganese ore sample from Darshanim mines, Jabalpur area, M.P. for M/s Kamal Lime Industry. (for RCOM, IBM, Jabalpur (under RMD studies).
2035 L/NC	Characterization & limited Scale beneficiation studies on a Laterite/Iron ore sample from Mansakhra mines, Jabalpur area, M.P. of M/s Shivalika Minerals for RCOM, IBM, Jabalpur (under RMD studies).
2036 L/NC	Characterization & limited Scale beneficiation studies on a Manganese ore sample from Mansakhra mines Jabalpur area, M.P. of M/s Shivalika Minerals for RCOM, IBM, Jabalpur (under RMD studies).
2037 F/C	Bench scale beneficiation studies on a sub-grade/mineral reject Limestone sample from Lanjiberna, Limestone & Dolomite mine, Dist. Sundergarh, Odisha for M/s OCL India Ltd., Sundergarh, Odisha.
2038 F/C	Bench Scale Beneficiation studies on a low grade Limestone sample from Kovaya, District Amreli, Gujarat for M/s. Ultra Tech Cements Ltd.
2039 F/NC	Beneficiation of Phosphorite sample from Muskania Area, District Garhwa, Jharkhand through D.G.M. Ranchi, Jharkhand for Geological Survey of India, Central Region, Nagpur (Departmental) .
2040 F/NC	Bench scale beneficiation studies on a low grade iron ore sample (No.3) from Chaibasa, District Singhbhum, Jharkhand, for M/s. Sri Ram Minerals Pvt. Ltd. (Under RMDS).
2041 F/C	Evaluation of Somsol Froather on a Copper Core Sample from Malanjkhand Copper Mine of M/s Hindustan Copper Ltd., distt. Balaghat, M.P. (for M/s Godavari Bio-refineries Ltd.).
2042 F/NC	Bench Scale Beneficiation Studies on a low grade Chromite (Feed) sample from M/s Misrilall Mines Pvt. Ltd., Saruabil, Distt. Jajpur, Odisha for Regional Mining Geological Studies.

2043 F/NC	Bench Scale Beneficiation Studies on a low grade iron ore sample from Gandhigram, (Sample No.4), Jabalpur district, Madhya Pradesh (under Regional Mineral Development Studies).
2044 F/NC	Bench Scale Beneficiation Studies on a very low grade iron ore sample from Gandhigram, (Sample No. 3), Jabalpur district, Madhya Pradesh (under Regional Mineral Development Studies).
2045 2L/NC	Bench scale beneficiation studies on iron ore hydro-cyclone over flow, Jharkhand (under Regional Mineral Development Studies).
2046 F/C	Bench scale beneficiation studies on sub-grade/mineral reject of Dolomitic Limestone sample from Limestone & Dolomite mine (for M/s Bisra Stone Lime Company Ltd., Sundergarh dist., Odisha).
2047 18l/nC	Eighteen limited amenability studies on Iron & Manganese ore samples from Jabalpur dist., M.P. for Regional Controller of Mines, Jabalpur.
2048 F/C	Bench scale flotation beneficiation studies on a copper flotation concentrator tailings sample from the Democratic Republic of Congo for M/s Excelsource International Pvt. Ltd., Vadodara.
2049 L/C	Limited amenability studies on a Zircon sand sample received from M/s Sukaso Cerra Colours Pvt., Ltd., Hyderabad.
2050 5L/NC	Five limited amenability studies on Iron and Manganese ore samples from Jabalpur District for Regional Controller of Mines, Jabalpur.
2051 4L/NC	Four limited amenability studies on Manganese, Iron, Laterite and Blue dust samples from Jabalpur District for Regional Controller of Mines, Jabalpur.
2052 L/NC	One limited amenability study on Laterite sample from Aber laterite deposit, Satna District, Madhya Pradesh for Regional Controller of Mines, Jabalpur.
2053 2L/NC	Two limited amenability studies on Limestone samples from Ahirgaon Limestone deposit of M/s Talvandi Cement Ltd., Madhya Pradesh for Regional Controller of Mines, Jabalpur.
2054 2L/NC	Two limited amenability studies on one iron ore and one laterite sample from Gandhi gram laterite and iron ore area of M/s Capital Minerals and Mining for Regional Controller of Mines, Jabalpur.
2055 L/NC	One limited amenability study on Limestone sample from Moharawa Limestone deposit, District Satna, Madhya Pradesh of M/s Adhunik Corporation Ltd. for Regional Controller of Mines, Jabalpur.

REGIONAL ORE DRESSING LABORATORY, AJMER	
539 L/C	Determination of Bond's Work Index of a Rock Phosphate sample, Rajasthan for M/s RSMML Ltd.
540 F/NC	Beneficiation of low grade Clay sample (CH-3) from Kantharia –III mines of M/S J.K. White Cement, District-Chittorgarh, Rajasthan for RCOM, IBM, Udaipur.
541 L/C	Determination of Bond's Ball Mill Work Index on a low grade Rock phosphate sample from Jhamarkotra, Udaipur, Rajasthan for M/s HZL Ld.
542 F/NC	Bench scale beneficiation studies on a low grade China clay sample from Khedanarnauliya mines, Nagaur dist., Rajasthan for Controller of Mines, North Zone, IBM, Ajmer (under RMG Studies).
543 F/NC	Beneficiation of low grade Clay sample (CH-4) from Kantharia mines of M/s Rehmat Ali, Dist. Chittorgarh, Rajasthan for Regional Controller of Mines, IBM, Udiapur.
544 F/NC	Beneficiation of low grade Clay sample (CH-5) from Banesti-I mines of M/s Modh. Sher Khan, Dist. Chittorgarh, Rajasthan for Regional Controller of Mines, IBM, Udiapur.
545 F/C	Bench scale beneficiation studies on a low grade Rock phosphate sample from Jhamarkotra , Udaipur, Rajasthan for M/s Hindustan Zinc Ltd.
546 F/NC	Bench scale beneficiation studies on a low grade China Clay sample from Luniyas mines, Nagaur District, Rajasthan for Controller of Mines, North Zone, IBM, Ajmer.
547 F/NC	Beneficiation of low grade Clay sample (CH-6) from Banesti-II mines of M/s Mohd. Sher khan, District- Chittorgarh, Rajasthan for Regional Controller of Mines, IBM Udaipur.
548 F/NC	Bench scale beneficiation of very low grade China Clay sample (01/05A) from MBC mine, District Nagaur for Controller of Mines, North Zone, IBM, Ajmer, Rajasthan.
549 F/NC	Bench scale beneficiation of low grade China clay sample from Ramdev mines, District Nagaur, Rajasthan under RMGS for COM (NZ), IBM, Ajmer.
550 L/C	Determination of Bond's Ball Mill Work Index on a White Clinker (G) sample from Gotan, Rajasthan for J. K. White Cements Ltd.
551 F/NC	Bench scale beneficiation studies on a low grade China clay sample (5B) from MBC mines, Nagaur District, Rajasthan for Controller of Mines, North Zone, IBM, Ajmer.
552 L/C	Determination of Bond's Ball Mill Work Index on a White Clinker (FN) sample from Gotan, Rajasthan for M/s J. K. White Cements Ltd.

REGIONAL ORE DRESSING LABORATORY, BANGALORE	
706 11L/NC	Limited wet screen analysis on eleven iron ore samples of Bench -1,2,3 & Stock ROM and sized samples of - 18 + 5 mm, - 20 + 5 mm and – 5 mm fractions from M/s. Benita Industries Pvt. Ltd., Chabali village, Pendlimarri (Mandal), Kadapa dist., Andhra Pradesh for Regional Controller of Mines, Hyderabad.
707 4L/NC	Limited wet size analysis of four iron ore samples of Kiln feed plant stock, Sponge iron and Sponge iron fines samples from M/s. Amoda Iron and Steel ltd., jayanthipuram, Krishna Dt., Andhra Pradesh for Regional Controller of Mines, Hyderabad.
708 F/C	Beneficiation studies on a Gold ore sample from Togo, Africa for M/s V S R Trading Limited., Hyderabad.
709 6L/C	Amenability studies and photomicrographs of six Iron Ore samples received from Kadapa distt. of Andhra Pradesh for M/s Oremet Minerals & Metals Pvt. Ltd., Kadapa.
710 F/NC	Bench scale beneficiation studies on a phosphorous rich Manganese ore sample from M/s R.B.S.S. Durgaprasad & F. Narasingdas, Garividi, Vizianagaram Dt., A.P. for Regional Controller of Mines, Hyderabad.
711 2L/C	Limited beneficiation studies on a Gold Ore sample from Makwambha Mines, Tanzania for M/s City Energy and Infra Structure Ltd., Bangalore.
712 L/NC	Limited Jigging studies on Bench-3 Iron ore ROM sample from M/s Benita Industries Private Limited, Chabali village, Pendlimarri(Mandal), Kadapa dt., A.P. for Regional Controller of Mines, Hyderabad.
713 L/C	Detailed Mineralogical studies on an Iron ore sample from Dharmapura village, Sihora Tehsil, Jabalpur District for M/s Geomin Industries Pvt Ltd,. Jabalpur.
714 L/C	Detailed Mineralogical Studies and Photomicrographs on an Iron Ore Sample from Central America for M/s Kinc Mineral Technologies Pvt. Ltd., Vadodara).
715 6L/C	Limited Beneficiation Studies employing gravity and magnetic separation technics on six samples (Tapiolite & Cassiterite) from Congo, Central Africa for M/s Excel Source International Pvt. Ltd., Vadodara.

716 F/C	Beneficiation studies on a Gold Ore sample from Combodia for M/s MESCO Steel Ltd., New Delhi.
717 F/C	Beneficiation studies on a Gold Ore tailing dump sample from Hutti Gold Mines , Raichur, Karnataka for M/s Hutti Gold Mines Ltd., Hutti, Raichur, Karnataka.
718 L/C	Limited tests on determination of bulk density and specific gravity of three Iron Ore samples from S.M. block Iron ore mine, Narayanapura village, Sandur Tk Bellary Dt. Karnataka.
719 6L/NC	Six limited beneficiation tests by gravity separation and flotation on three Barite Samples from M/s, Shivaganga Minerals Private Limited , Kadapa Dist., Andhra Pardesh for RCOM , Hydrabad.
720 1F &2L/C	Beneficiation, Work Index and Grindability studies on an Iron Ore sample No. 1 from Jabalpur, Madhya Pradesh for M/s Gulf Ispat Limited ,Jabalpur.
721 F/C	Beneficiation studies on a Garnet sample from Jaipur, Rajasthan for M/s Best Industrial Minerals, Jaipur.
722 4L/NC	Four limited beneficiation tests by gravity separation and flotation on two Barite samples (ROM Lumps and ROM Fines) from M/s A. K. Minerals, Kathuluru Kadapa dist., Andhra Pradesh for RCOM, Hyderabad.
723 L/C	Determination of work index on an iron ore sample from M/s Kudremukh Iron Ore Company Private Limited, Mangalore.
724 F/C	Development of mineral processing flow sheet to recover the phosphate mineral from a tailing sample from Jhamarkotra processing plant, R.S.M.M. Ltd. for M/s Jai Drinks Pvt. Ltd., New Delhi.

Annexure III

Foreign Deputation of IBM Officers during 2014-15

S. No.	Name	Place of visit	Date	Purpose
1	Shri Santosh Adhikari, Superintending Mining Geologist IBM Nagpur	Geneva, Switzerland	29th April to 2nd May, 2014	To attend 5th session of the Expert Group on Resource Classification at Geneva, Switzerland
2	Shri Manish Mendiratta, DCOM IBM Hyderabad and Shri Rajeev Ranjan, ACOM Nagpur	Japan	21st September to 06 December 2014	To participate in Group Training Course in "Sustainable Mining Development" being held in Japan under the Technical Cooperation Programme of the Government of Japan.
3	Shri Pankaj Kulshrestha, RCOM, Ajmer Shri Jayakrishna Babu Varigonda, RCOM Bengaluru and Shri P. Neniwal, DCOM	Sudbury, Ontario, Canada	27th September to 4th October, 2014	As a member of delegation led by Shri Chandramani Sharma, Director, Ministry of Mines for the purpose of capacity building.
4	Dr. A.N.Murthy, Regional Mining Geologist, Indian Bureau of Mines, Ajmer	Cape Town, South Africa	9-12 February, 2015.	As a member of delegation led by Shri Narendra Singh Tomar, Hon'ble Minister for Mines & Steel participated in INDABA 2015 at Cape Town, South Africa
5	Shri Rajnish Purohit, Regional Controller of Mines, IBM, Ranchi	Ontario, Canada	1-4 March, 2015	As a member of delegation led by Shri R.Sridharan, Addl. Secretary (Mines) to participate in PDAC 2015

Annexure IV

Participation in Seminars/Symposia/Workshops etc. during the Year 2014-15

i) S/Shri Ranjan Sahai, COM and Abhay Agrawal, DCOM & TS attended Workshop on UNFC at GSI Training Centre, Hyderabad on 15 & 16 May, 2014. Shri Ranjan Sahai, as a key-note speaker, delivered his key-note address on UNFC and Shri Abhay Agrawal, as a Guest Faculty, delivered lectures respectively on "Statutory Requirements for Estimation of Resources as per UNFC in Mining Plan and Scheme of Mining" and "Stages of Feasibility Assignment, Economic Axis & its Assignment, Cut-off Grade and Threshold Value of Different Minerals".

ii) S/Shri R. K. Sinha, COM and (Dr.) Y.G. Kale, RCOM participated in the National Conference on 'Rare Earth Processing & Utilization' organised by the Indian Institute of Metals at Mumbai on 02 & 03 May, 2014.

iii) Shri M. Biswas, RCOM attended a seminar organised by the Federation of Indian Mineral Industries (FIMI) on "Raw Materials for Iron & Steel Industries" during 19-20 June, 2014 at Bhubaneswar. He made a presentation during the seminar on 'Mineral Development.

iv) Dr. (Smt.) Sandhya M. Lal, SOOD and Shri V. A. Sontakke, DODO participated in the 18th International Conference on 'Non-ferrous Minerals & Metals-2014' organised jointly by International Bauxite, Alumina & Aluminium Society (IBAAS), Visveshvarayya National Institute of Technology (VNIT) and Jawaharlal Nehru Aluminium Research Design & Development Centre (JNARDDC) on the occasion of completion of 25 years of JNARDDC during 11-12 July, 2014 at Nagpur.

v) Dr. Omkesha Murthy, SMG and Shri Deepak Patil, AMG participated in the National Workshop on 'Recent Trends in Mineral Exploration Strategies for India' organised by the Geological Survey of India during 14-15 July, 2014 at Nagpur.

vi) Shri S. Tiu, COM and Dr. Y. G. Kale, RCOM participated in the 'Sustainable Mining Summit' organised by the Federation of Indian Mineral Industries (FIMI) during 17-18 July, 2014 at Goa. Dr. Kale made a presentation on "Present Status of Goan Mining Industry" co-authored by Shri S. Tiu.

vii) A Workshop on 'United Nations Framework Classification System' was organised by the Geological Survey of India, Regional Training Institute during 23-25 July, 2014 at Nagpur. Shri Ranjan Sahai, COM delivered a keynote address. Shri S. K. Adhikari, Sg.MG was a Guest Faculty while Shri S. K. Muduli, JMG, Smt. P.A. Sawant, JMG, Shri Prabhat Mishra, DME and Shri Gaurav Sharma, AME participated in the workshop as delegates from IBM.

viii) Shri P. N. Sharma, RCOM participated in the All India Exploration Geologists Meet (AIEGM-2014) organised by the Mining Engineers' Association of India (MEAI) during 21-22 August, 2014 at Hydewrabad and made a presentation on "Regulatory Requirements for Planning Mineral Prospecting and Exploration".

ix) S/Shri Jayakrishna Babu Varigonda, RCOM and P. Neniwal, DCOM participated in 'Mining-Exploration Convention & Trade Show (Mining Mazma)' organised by the Federation of Indian Mineral Industries (FIMI) during 18-20 September, 2014 at

Bengaluru. A stall was also set up by IBM in the Trade Show displaying major functions and activities of IBM along with display and sale of IBM publications.

x) Shri K.Thomas, Controller General (In charge) attended Mandatory Refresher Course on 'Financial Management' for senior level officers of Indian Statistical Services (ISS) organised by the National Statistical Systems Training Academy, Central Statistical Office, Ministry of Statistics & Programme Implementation during 17-21 November, 2014 at Pune.

xi) Shri D. W. Beck, ME (I) attended 'Workshop for Liaison Officer for SC/SC-WLO during 20-21 October, 2014 at New Delhi.

xii) Shri R. N. Selvan, Suptdg.MG participated in the National Seminar on 'Dimensional Stone' organised jointly by Federation of Indian Granite & Stone Industry (FIGSI), Bengaluru and Geological Society of India, Bengaluru on 17 January, 2015 at Bengaluru.

xiii) S/Shri (Dr.) Y. G. Kale, RCOM, G. K. Jangid, DCOM and G. Ram, ACOM attended a workshop organised by the Government of India and State Government of Goa on MM (DR) Amendment Ordinanace-2015 on 06 February, 2015 at Porvorim, Goa.

xiv) Dr. Omkesha Murthy, SMG attended a workshop on GIS organised by the Department of Electronics & Information Technology, Ministry of Communications & Information Technology, and Government of India on 20 February, 2015 at New Delhi.

xv) Shri R. Majumdar, SMG attended Mining Symposium at India Geospatial Forum, organised by the Geospatial Media & Communications (Pvt.) Ltd., during 10-12 February, 2015 at Hyderabad.

xvi) Dr. P.K. Jain, SgMG and Dr. GVGK Bhagvan Gumma, SMG attended Brain Storming Session, relating to 36th International Geological Congress-IGC-2020, organised by the Geological Survey of India during 12-13 March, 2015 at Nagpur. A technical paper titled 'Synthesis of Zeolites from Coal Ash of Lower Gondwana Group' by Dr. Bhagvan has been accepted for Poster Presentation.

xvii) S/Shri (Dr.) P.K. Jain, SgMG, (Dr.) V.A.J. Aruna, SOOD, Harkesh Meena, RCOM, D. W. Beck, ME(I), R. Kumar, DME (Stat.) and Finny Abraham, AME attended a Seminar for Central Government Officers on "Search for Excellence" organised by the Central Government Officers Institute for Excellence on 15 March, 2015 at Nagpur.

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Annexure V

STATUS OF IMPLEMENTATIONS OF NON-FINANCIAL RECOMMENDATIONS OF THE IBM REVIEW & RESTRUCTURING

S. No.	Recommendation	Status	Remarks
1	The IBM would evolve as a consultant for creation and improvement of State level regulatory mechanisms and to assure suitable support structures to the State Governments.	**Action initiated for implementation.**	**It is an ongoing process.**
2	To develop the micro level systems; process and guidelines in respect various statutory tools for effective administration of the mining sector To develop the monitoring systems and checks to ensure that the regulatory authority at the level of first tier (State Government) is working smoothly and to ascertain the efficacy of the systems.		
3	In each mineral rich State, a "Regional Co-ordination Committee" having interface between various regulatory authorities at state level shall be formed in all Regional Offices of Indian Bureau of Mines. Meetings of the "State Co-ordination Committees' may be held once in six months at Regional level and once in a year at IBM HQ level.		
4	Based on the internal analysis and interpretations, the IBM should coordinate with the State Governments on effective actions to be taken by the State Governments to curb illegal mining	**Action initiated for implementation.**	**It is a continuous process.**
5	To prepare detailed guidelines on various compliance issues such as preparations of statutory documents; filling up of various forms and notices, and working of the monitoring tools for field level officers to ensure achievement of the objectives of the systematic, scientific and sustainable mining operations.	IBM prepared following guidelines: 1. UNFC guidelines 2. Guidelines for self-appraisal by Lessees/ Mine owners to ensure the extent of implementation of Mining Plan/ Scheme of Mining 3. Set of guidelines for online registration and submission of monthly and annual return as per the amended Rule 45 of MCDR 1988. 4. Do's and Don'ts for online registration with IBM 5. Guidelines and instructions to	**Action initiated for Implementation.** **It is a continuous process.**

		Regional offices for effective regulation and administration of MCDR 1988 and to RQPs and Mine owners for preparation of statutory documents; filling up of various forms and notices. 6. Final draft manual on appraisal of Mining Plan 2013 (uploaded on website for stakeholders' comments if any).	
6	A system of an internal audit of the tasks performed by the Regional Office at the level of Zonal level should be introduced. The Divisional office, based on the performance of the Regional office and audit report of the Zonal office would rate the performance of both Zonal as well as the Regional offices.	**Implemented and ongoing activity.** During the year 2013-14, 125 internal audit inspections were completed by Zonal Heads.	**It is considered as one of annual programme of IBM.**
7	The Mining Geologists should be involved in (a) Monitoring of Reconnaissance/Prospecting/Large Area Prospecting Licenses (b) Compliance with UNFC (c) Examination of Geological aspects of Mining Plan/ Scheme of Mining (d) Implementations of Threshold values of (e) Regional Mineral Development Study (RMDS) (f) Updating National Mineral Inventory and (g) Preparations of Mineral Maps. The Regional Mineral Development Study (RMDS) of multi-disciplinary approach should be revived in view of sustainable development concerns. The scope of the study needs to be properly enlarged to cover the standards, procedures and practical guidance for Sustainable Development of Mineral Resources.	**Implemented and ongoing activity.** IBM Geologists have been assigned Monitoring of Reconnaissance Permit/ Prospecting Licenses, Examination of Mining Plan/ Scheme of Mining to ensure the compliance of UNFC and implementation of threshold values through site inspections, Updation of National Mineral Inventory, Regional Mineral Development studies (RMDS) (multi-disciplinary).	**It is considered as one of the annual program - me of IBM.**
8	Inspections in respect of mechanized and underground mines should be carried out by a team of Mining Engineers, Geologists and OD officers. The thrust of the inspections should be to ascertain the efforts put in by a miner to adopt processes for mechanization, automation and computerization.	**Implemented and ongoing activity.** Multi-disciplinary inspections by a team of mining engineers, mining geologists and Ore Dressing Officers have been started from Annual Action plan 2013-14	**It is considered as one of annual programme of IBM.**
9	Till the State Government's capacities	**Action has been initiated for**	Hence, the

	develop, IBM would continue to undertake inspections of all mines. IBM should carry out: (i) in case of mechanized mines IBM would conduct inspections annually, (ii) in case of mines with area more than 50 hectares, IBM would conduct annual inspections, (iii) in case of all other mines the annual inspections would be conducted in at least 40% mines preferably on rotational basis. The mines less than of 50 Ha would submit report on compliance of rules to IBM on prescriptive points, based on which and depending on the impact, IBM would carry out inspections. (iv) mines where violations are observed should be inspected twice in a year to ensure compliance with rules	**implementation; however, difficulties are occurring in field level implementation.**	implementation of this recommendation may be considered as financial implicated recommendation
10	To improve the quality of mining plan, the procedure for grant of recognitions to qualified persons (RQPs) to prepare mining plans should be revisited.	**Dropped by Ministry in 2014-15**	**Dropped from Non-financial items during a meeting held on 20.11.2014.**
11	The outline and guidelines of mining plan should be more objective and should cover the latest techno-economic parameters for various mining parameters. To revise the format of Mining Plan and Scheme of Mining keeping in view the new provisions of Mines & Minerals (Development & Regulation) Bill 2011 and the Framework of Sustainable Development. IBM should identify the mandatory items, factual items and advisory items in a mining plan.	Approved guidelines have been hosted on IBM website and sent to Regional offices vide e-mail dated 03.11.2014.	**Implemented. It is continuous ongoing process now.**
12	The Regional Controller of Mines should be empowered in all regulatory activities and therefore, the Mining Plans, Schemes of Mining and Mine Closure Plans in respect of all categories of mines shall be dealt with	**Implemented.** Circular has been issued to regional heads on 20.11.2013 empowering the Regional Controller of Mines to approve all mining plans irrespective of	**It is continuous ongoing process now.**

	by the Regional office. Recommended time limit should be adhered to for processing of mining plan.	category of Mine. However for adhering to the time limit, additional human resources are necessary as the flow of mining plans/ schemes of mining are heavy in the regional offices. Therefore, this should be linked with the financial implications.	
13	Closing down the Nellore sub-Regional office and transferring its activities into Hyderabad Regional Office.	Action initiated by seeking options from the existing officers and staff posted at Nellore.	**Under process for implementation.**
14	To carry out regular inspection of operating plants to assess plant efficiency and loss of values in fines or tailing and suggest corrective measures to improve the performance of the plants. To examine for amendments in the statute for inspection of mineral beneficiation plants located outside mining lease areas.	**Implemented.** Ore Dressing officers are carrying out in plant Studies to suggest the corrective measures to improve the performance of the plants. This process will be continued after strengthening of Ore Dressing Division with required manpower. Hence this recommendation may be considered as linked with financially implicated recommendations.	**Difficulties occurred in implementation due to acute shortage of manpower in OD Division.**
15	To enhance the consultancy charges by IBM to have level field amongst private and Government sectors.	IBM has notified revised Consultancy charges w. e. f. 01.03.2013. The same were uploaded in the IBM Website.	**Implemented.**
16	To attract investments into mining sector in India, IBM should make available all its publications on the web portal for downloading free of cost to registered users. To display on its website, links to important publications by other agencies in the mineral sector, i.e. GSI, State Directorate of Mining and Geology, and Industry Associations.	IBM is hosting all its publications on its official web site at www.ibm.nic.in at free of cost to all public.	**Implemented.** **It is continuous ongoing process now.**
17	To institutionalise National Awards in various fields for the mining industry in the field of Mineral Conservation/Environmental Protection/ Corporate Social Responsibility/ Mine Closure etc.	Dropped by Ministry.	**Dropped from Non-financial items during a meeting held on 20.11.2014**
18	To develop a team to participate in various international events for display and dissemination of knowledge and capability of the organization.	So far, IC cell of Ministry of Mines decides the international participation.	**Under process for implementation**
19	To develop a comprehensive web-	Online registration of mine	**Action**

	enabled portal so that on-line submission of information and returns is made possible for facilitating faster processing and dissemination of information. The Regional offices should be the single authority where data should be filed and need to be designated as the concerned authority to ensure collection and maintenance of data.	owners, stockiest, traders and end users etc., submission of monthly and annual returns are made operational from IBM website. Proposed IT Cell can handle the full-fledged implementation with the input of its IT based knowledge. Hence, it can be considered as an interlinked financial implicated recommendation.	**initiated for implementation**
20	The frequency of updation of mineral inventory needs to be condensed. IBM should equip with necessary logistics in the form of structural changes, hardware and software for handling huge inventory database and for online and continuous updation of mineral inventory.	The frequency of updation of mineral inventory has been condensed. IBM has taken up 12 minerals for intermediate updation as on 01.04.2013 during the year 2013-14.	**Action initiated for implementation.**
21	Adoption of New Charter of functions as suggested in the report.	Draft notification sent to Ministry of Mines vide letter No. T-42009/2/IBM Strength/ CGBM/AR/2012 dated 14.11.2012 for approval and To be published in Part-I, Section-1 of the Gazette of India Extraordinary.	**Implemented, as approved by Ministry vide letter No. 31/49/2014-M.III dated 03.11.2014.**
22	**Renaming of Mines Control & Conservation of Minerals (MCCM) Division as "**Minerals Development & Regulation Division".	Draft notification sent to Ministry of Mines vide letter No. T-42009/2/IBM Strength/ CGBM/AR/2012 dated 14.11.2012 for approval and To be published in Part-I, Section-1 of the Gazette of India Extraordinary.	**Implemented, as approved by Ministry vide letter No. 31/49/2014-M.III dated 03.11.2014.**
23	Ore Dressing Division **may be renamed as "**Mineral Processing Division"	Draft notification sent to Ministry of Mines vide letter No. T-42009/2/IBM Strength/ CGBM/AR/2012 dated 14.11.2012 for approval and To be published in Part-I, Section-1 of the Gazette of India Extraordinary.	**Implemented as approved by Ministry vide letter No. 31/49/2014-M.III dated 03.11.2014.**
24	A National level "Mineral Processing Governing Council" headed by the Secretary (Mines) and Director (Ore Dressing) as Member Convener and involving various stake holders may be constituted. This council would explain the progress achieved and make plans for the next year.	Draft notification sent to Ministry of Mines vide letter No. T-42009/2/IBM Strength/ CGBM/AR/2012 dated 14.11.2012 for approval and To be published in Part-I, Section-1 of the Gazette of India Extraordinary. Again, after a meeting held under the Chairmanship of Additional Secretary Mines at New Delhi on 21.04.2014, a draft notification	**Under approval of Ministry**

		containing proposed "Mineral Processing Advisory Committee" headed by the Controller General, IBM and Director (Ore Dressing) as Member Convener has been sent vide letter No. T-42009/2/IBM Strength/ CGBM/AR/2012 dated 27.06.2014.	
25	Statutory provisions may be made to make it necessary to carry out Amenability test in respect of exploration samples of drill cores for Prospecting and High Technology Reconnaissance cum Exploration Licence.	This is being examined at IBM for its implementation.	**Under process for implementation.**
26	To make efforts to increase the coverage, by ensuring that all statutory returns are filed online by the concession holders. In case of Non-Statutory returns furnishing of information by mineral consuming industries should be made statutory. To this effect, the necessary amendment in the Rules may be carried out. With regard to the promotional exploration data, Rules may be amended to make it compulsory for the Government agencies to furnish data to the IBM on an annual basis. In case of Independent surveys, formal institutionalized mechanism for interacting with the domestic industries and regulatory agencies in other countries in a participatory model whereby the data is exchanged on mutually agreed terms may be created.	Online submission of statutory returns was made operational. Real time online database is possible once Mining Tenement System (MTS) is operational.	**Action initiated for implementation.**

Annexure VI

Nominations to the Committees, Working Groups, etc.

1. Shri S.K Adhikari, Superintending Mining Geologist, IBM nominated as a member of the Technical Advisory Group of the Expert group on Resource Classification of UNECE.

2. Shri Pankaj Kulshreshtha, Regional Controller of Mines, Ajmer, IBM is nominated for meeting as special invitee for Inter Ministerial Group(IMG) constituted under the chairmanship of Secretary(Disinvestment) and Secretary (mines) to consider the proposal of fresh valuation & assessment of fair share value of Bharat Aluminum Limited company(BALCO) and Hindustan Zinc Limited(HZL).

3. Shri Junaid Farooqui, Director (Statistics) is nominated as a representative from Statistical Wing of IBM for Constitution of a committee in order to define and to list out exhaustively about the strategic minerals.

4. Shri S.K Adhikari, Superintending Mining Geologist is nominated for Committee constituted for Preparation of new Schedule of Charges in respect of Promotional work of MECL.

5. Shri S.K Adhikari, Chief Mining Geologist, is nominated in Committee on the Exploration Research Advisory Committee (ERAC) AMD, Central Region, Nagpur.

Annexure- VII

Publications Released during 2014-15

Sr. No.	Titles / Publications	Release Date
1.	Monthly Statistics of Mineral Production-October 2013	17.04.2014
2.	Indian Minerals Yearbook 2012 Vol.-I	04.06.2014
3.	Indian Minerals Yearbook 2012 Vol.-III	04.06.2014
4.	Monthly Statistics of Mineral Production – November 2013	04.06.2014
5.	Monthly Statistics of Mineral Production – December 2013	16.06.2014
6.	Application of ROCK MECHANICS in Surface & Underground Mining	15.07.2014
7.	Bulletin of Mining Leases & Prospecting Licences 2012	21.07.2014
8.	Annual Report,2012 - 2013	05.08.2014
9.	Market Survey on Manganese Ore	08.08.2014
10.	Monthly Statistics of Mineral Production – January 2014	12.08.2014
11.	Monthly Statistics of Mineral Production – February 2014	19.08.2014
12.	Statistical Profile of Minerals 2012 -13	20.08.2014
13.	Bulletin of Mineral Information, April-2013 to September-2013	15.09.2014
14.	Bulletin of Mineral Information, October - 2013 to March-2014	08.10.2014
15.	IBM News Oct. 2013 to March, 2014	13.10.2014
16.	Monthly Statistics of Mineral Production – March 2014	20.11.2014
17.	Manganese Ore : Vision 2020 and Beyond	20.11.2014
18.	Monthly Statistics of Mineral Production – April 2014	19.1.2015
19.	Monthly Statistics of Mineral Production – May 2014	22.1.2015
20.	Monthly Statistics of Mineral Production – June 2014	4.2.2015
21.	Monthly Statistics of Mineral Production – July 2014	13.3.2015
22.	Monthly Statistics of Mineral Production – August 2014	18.3.2015
23.	Monthly Statistics of Mineral Production – September 2014	27.3.2015

Annexure VIII-A

Scheme-Wise Physical Performance of IBM During 2014-15

Sl. No.	Activity	Target for Annual Plan 2014-15	Achievement
Scheme No.1 Inspection of Mines for scientific and systematic mining, mineral Conservation and mine environment.			
1.	Inspection of Mines for enforcement of provision of MCDR, 1988 and examination of MP/MS	2500 Mines	2427 Mines Inspections
2.	Regional Mineral Development Studies (RMDS)	04 Studies	04 Studies carried out.
3.	Mining Plan disposed Of which i) Approved ii) Not approved	-	 255 102
4.	Scheme of Mining disposed Of which i) Approved ii) Not approved	-	 485 169
5.	Mine Closure Plan Of which i) Approved ii) Not approved	-	 20 12
6.	Registration of RQP i) Recognition granted 2014-15 ii) Not Granted iii) Renewed iv) No.of valid RQP (March, 2015)	-	 143 15 29 1146
7.	Violations of MCDR, 1988 i) Pointed out ii) Rectified iii) Show cause notices issued iv) Prosecution cases a) launched b) decided in favour of IBM c) compounded v) Suspension of Mining operations	-	 3724 for 1321 mines 1755 598 78 25 02 357
Scheme No.2 Mineral Beneficiation Studies, utilization of low grade and sub grade ores and analysis of environmental samples			
	i) Ore dressing investigations	60	58
	ii) Chemical Analysis	40,000	34,660
	iii) Mineralogical studies	2,300	2,244
	iv) In-plant studies	As and when required	--
Scheme No.3 Technological Up gradation and modernization.			
1.	Technical Consultancy Assignments	3-5 assignments	3 completed
2.	Mining Research	2-3 studies	1 completed
3.	Training courses	16 courses	16 courses conducted
4.	Updation of Mineral Maps with forest overlays	Updation of 100 multi mineral maps with forest overlays in the states of Bihar and Andhra Pradesh on a scale of 1:50,000 & data collection of leases in Tamil Nadu & Kerala	100 multi mineral maps with forest overlays in the states of Bihar and Andhra Pradesh updated
5.	Intermediate Updation of NMI adopting UNFC as on 1.4.2013 in respect of Pvt. Leaseholds for 10 minerals.	Completion of Updation of NMI for 10 minerals	Updation completed for 9 minerals.
	NMI at a Glance as on 1.4.2013 in respect of 10 minerals	Release	Work is in progress

Sl. No.	Activity	Target for Annual Plan 2014-15	Achievement
Scheme No.4 Collection, processing, dissemination of data of mines and Minerals through Various Publications			
1.	Release of IBM publications	-	Twenty three Publications released.
2.	Advisory Role	As & when received	234 PQ & 423 ministry references have been replied
Scheme No.5: Computerized Online Register of Mining Tenements System.			
1	To develop an online National Mineral Information System by linking Central and State organizations engaged in administration of mineral resources in the country**.**	Re-tendering of RFP, selection of system integrator and initiation of work for development of software for the online register	During 2014-15, again tender floated in CPP portal. As only single party has responded for the bid, according to Rule 169 of GFR, 2005 the bid as received from M/s. Wipro Ltd. has not been opened . Further, RFP was modified and was in the process of being re-floated. In the meanwhile, MMDR Amendment Ordinance 2015 has been promulgated on 12.01.2015 requiring re-modification of the RFP which is being done.

ANNEXURE-VIII-B

SCHEME-WISE FINANCIAL PERFORMANCE OF IBM DURING 2014-15

(Rs. in lakhs)

Name of the Schemes/project/ Programme	2014-15		
	Approved Outlay		
	BE	RE	Actual Expr.
Scheme No.1. Inspection of Mines for Scientific & Systematic mining, Mineral Conservation and Mine Environment	1535.00	1605.50 *	1357.16*
Scheme No.2. Mineral Beneficciation studies- Utilization of low grade & sub-grade ores and analysis of environmental samples	681.00	657.00	578.55
Scheme No.3. Technological upgradation & Modernization.	578.00	519.50	493.03
Scheme No.4. Collection, Processing, Dissemination of Data on Mines & Minerals through various publications.	264.00	241.00	221.03
Scheme No.5. Computerisation online Register on Mining Tenement System.	1500.00	00	00
Tribal Area Sub-Plan	212.00	127.00	00
Outlay (NER) : Revenue	129.00	--	--
NER : Capital	401.00	--	--
T O T A L PLAN (I B M)	**5300.00**	**3150.00**	**2649.77**
Total Non-Plan	**5352.00**	**5317.00**	**5253.07**

Note: * Inclusive of NER (Both Capital & Revenue) Budget

ANNEXURE IX

RETURN ON ILLEGAL MINING FOR THE YEAR 2014-15 Major Minerals

SR. No.	STATE	No. of cases	Quantum of mineral/ Ore excavated / stacked / Transported (in lakh tonnes)	Value of Mineral / Ore (Rs.Lacks)	FIR Lodged (Nos.)	Court Cases Filed (Nos.)	Fine realised (Rs. Lakh)
1	**ANDHRA PRADESH**	295	0.049	5998.770	0	0	84.36
2	**ARUNACHAL PRADESH**	0	0.000	0.000	0	0	0.00
3	**ASSAM**	0	0.000	0.00	0	0	0.00
4	**CHHATTISGARH**	246	0.038	32.90	0	101	81.39
5	**GOA**	0	0.000	0.000	0	0	0.00
6	**GUJARAT**	346	6.536	904.010	1	0	161.25
7	**HARYANA**	0	0.000	0.000	0	0	0.00
8	**JHARKHAND**	220	0.096	37.100	186	3	3.96
9	**KARNATAKA**	211	0.011	29.200	27	18	50.21
10	**KERALA**	4	0.000	0.800	0	0	1.00
11	**MADHYA PRADESH***	106	0.000	16.450	9	105	76.16
12	**MAHARASHTRA**	0	0.000	0.000	0	0	0.00
13	**MIZORAM**	0	0.000	0.000	0	0	0.00
14	**ODISHA**	104	3.117	1327.36	0	0	830.71
15	**RAJASTHAN**	467	1.406	45.305	181	0	200.23
16	**SIKKIM**	0	0.000	0.000	0	0	0.00
17	**TAMILNADU**	5	0.679	9.323	0	0	25.10
18	**TELENGANA**	29	0.159	40.630	0	0	49.22
19	**UTTARPRADESH**	0	0.000	0.000	0	0	0.00
	Total	**2033**	**12.091**	**8441.848**	**404**	**227**	**1563.59**
Note	Quantity of mineral /ore excavated/stacked/transported given in Cu.mt/other unit	Madhya Pradesh*	368077 cu.mt				
		Goa	20 cu. mt.				

ANNEXURE IX

RETURN ON ILLEGAL MINING FOR THE YEAR 2014-15 Minor Minerals

SR. No.	STATE	No. of cases	Quantum of mineral/ Ore excavated / stacked / Transported (in lakh tonnes)	Value of Mineral / Ore (Rs.Lacks)	FIR Lodged (Nos.)	Court Cases Filed (Nos.)	Fine realised (Rs. Lakh)
1	**ANDHRA PRADESH**	9084	53.785	9827.15	0	0	3793.33
2	**ARUNACHAL PRADESH**	0	0.000	0.00	0	0	0.00
3	**ASSAM**	0	0.000	0.00	0	0	0.00
4	**CHHATTISGARH**	4794	8.982	469.50	0	795	542.12
5	**GOA**	0	0.000	0.00	0	0	0.00
6	**GUJARAT**	5370	12.480	3130.52	31	6	2174.96
7	**HARYANA**	5333	5.043	618.800	245	0	1448.52
8	**JHARKHAND**	942	0.950	126.640	584	88	50.06
9	**KARNATAKA**	8253	3.147	921.26	273	142	2210.90
10	**KERALA**	4168	61.706	17343.00	0	0	640.38
11	**MADHYA PRADESH***	8067	0.000	5241.83	51	8023	3211.71
12	**MAHARASHTRA**	0	0.000	0.00	0	0	6765.86
13	**MIZORAM**	26	0.010	0.00	1	0	1.051
14	**ODISHA**	0	0.000	0.00	0	0	0
15	**RAJASTHAN**	2478	17.320	624.36	316	3	1301.98
16	**SIKKIM**	0	0.000	0.00	0	0	0.00
17	**TAMILNADU**	200	50.614	178.27	2334	0	3463.77
18	**TELENGANA**	3282	4.543	598.49	0	0	750.45
19	**UTTARPRADESH**	10402	0	671.54	0	0	2677.15
	Total	**62399**	**218.58**	**39751.36**	**3835**	**9057**	**29032.241**
Note	Quantity of mineral /ore excavated/stacked/transported given in Cu.mt/other unit	Madhya Pradesh*	830638 cu. mt				
		Goa	00 cu. mt.				

3. खनिज उत्पादन, मार्च 2015
(परमाणु खनिजों और गौण खनिजों को छोडकर)
खनिजवार
3. MINERAL PRODUCTION, MARCH 2015
(Excluding Atomic Minerals and Minor Minerals)
MINERAL-WISE

(मूल्य '000 रुपयें Value in Rs.'000)

खनिज	Mineral	इकाई Unit	मार्च 2015 March 2015		फरवरी 2015 February 2015		अप्रेल 2014 - मार्च 2015 Apr 2014 - Mar 2015		अप्रेल 2013 - मार्च 2014 Apr 2013 - Mar 2014	
			मात्रा / Qty.	मूल्य / Val.	मात्रा / Qty.	मूल्य / Val.	मात्रा / Qty.	मूल्य / Val.	मात्रा / Qty.	मूल्य / Val.
सभी खनिज	All Minerals			234226867		201967514		2365537977		2363729407
ईंधन खनिज	Fuel Minerals			192249361		165115360		1906338067		1864669332
कोयला	Coal	'000t	68485	102211892	57976	86208590	610208	891754480	565765	825347500
लिग्नाइट	Lignite	'000t	6206	8781988	4709	6356530	48292	64180851	44271	59675300
प्राकृतिक गैस (उपभुक्त)	Natural Gas (ut.)	m c m	2733	22602261	2454	20294893	32583	269465580	35407	292820422
पेट्रोलियम (अपरिष्कृत)	Petroleum (crude)	'000t	3227	58653220	2875	52255347	37464	680937156	37788	686826110
धात्विक खनिज	Metallic Minerals			36216270		31423271		385965710		423899538
बॉक्साइट	Bauxite	t	1744746	819069	1329782	674186	22226062	10769338	22319148	9996894
क्रोमाइट	Chromite	t	376499	3454128	243277	2018512	2163942	18185545	2878320	23759458
ताम्र अयस्क	Copper Ore	t	301982	0	329721	0	3586028	0	3777772	0
ताम्र सान्द्र	Copper Conc.	t	10078	459568	9897	444767	107541	5445661	139307	6681011
सोना अयस्क	Gold Ore	t	39263	0	24442	0	448671	0	420429	0
सोना (कुल)	Gold (total)	kg	124	295805	135	333203	1440	3607600	1564	4225317
सोना (प्राथमिक)	Gold (primary)	kg	124	295805	135	333203	1440	3607600	1564	4225317
सोना (उप उत्पाद)	Gold (by-product)	kg	0	0	0	0	0	0	0	0
लोह अयस्क (कुल)	Iron Ore (total)	'000t	12461	24910765	10607	22385821	128909	285336637	152183	316491777
लोह अयस्क (ढेले)	Iron Ore (lumps)	'000t	4671	11459236	4191	10614050	47246	132828993	58495	168586933
लोह अयस्क (चूरा)	Iron Ore (fines)	'000t	7690	13256588	6323	11590750	80586	149619101	92946	145738162
लोह अयस्क सान्द्र	Iron Ore Conc.	'000t	100	194941	93	181021	1077	2888543	742	2166682
सीसा व जस्त अयस्क	Lead & Zinc Ore	t	1022665	0	906635	0	9346349	0	9281807	0
सीसा सान्द्र	Lead Conc.	t	23163	689084	18956	578771	197668	5596580	194426	4372536
जस्त सान्द्र	Zinc Conc.	t	168277	3434181	137740	2975148	1501586	31436595	1490662	27389284
मेंगनीज अयस्क	Manganese Ore	t	217805	1164567	216155	1127165	2345361	13625514	2626291	15181757
चांदी	Silver	kg	28931	988121	25044	884061	327647	11947042	349774	15778713
टिन सान्द्र	Tin Conc.	kg	1466	982	2976	1637	24689	15198	34862	22791
अधात्विक खनिज	Non-metallic Minerals**			5761236		5428883		73234200		75160537
अगेट(गौ.ख.)	Agate(mm)	t	NA	NA	NA	NA	0	0	100	50
एपेटाइट	Apatite	t	80	178	100	222	930	2021	1300	2768
फॉस्फोराइट	Phosphorite	t	338148	775729	266622	741519	1579561	3905087	1453580	4754755

(क्रमशः/ Contd.....)

3. खनिज उत्पादन, मार्च 2015
(परमाणु खनिजों और गौण खनिजों को छोडकर)
खनिजवार
3. MINERAL PRODUCTION, MARCH 2015
(Excluding Atomic Minerals and Minor Minerals)
MINERAL-WISE

(मूल्य '000 रुपयें Value in Rs.'000)

खनिज	Mineral	इकाई Unit	मार्च 2015 March 2015		फरवरी 2015 February 2015		अप्रेल 2014 . मार्च 2015 Apr 2014 - Mar 2015		अप्रेल 2013 . मार्च 2014 Apr 2013 - Mar 2014	
			मात्रा / Qty.	मूल्य / Val.	मात्रा / Qty.	मूल्य / Val.	मात्रा / Qty.	मूल्य / Val.	मात्रा / Qty.	मूल्य / Val.
एस्बेस्टोस	Asbestos	t	0	0	0	0	0	0	172	7271
सुघट्टय मृतिका(गौ.ख.)	Ball Clay(mm)	t	NA	NA	NA	NA	1910060	920542	2130995	1055362
बेराइट्स(गौ.ख.)	Barytes(mm)	t	NA	NA	NA	NA	910963	2693456	1170522	3561386
केल्साइट(गौ.ख.)	Calcite(mm)	t	NA	NA	NA	NA	91783	34079	92122	32620
खडिया(गौ.ख.)	Chalk(mm)	t	NA	NA	NA	NA	94467	49974	142696	72900
मृतिका अन्य(गौ.ख.)	Clay (others)(mm)	t	NA	NA	NA	NA	2248184	384286	2506662	382002
कोरंडम(गौ.ख.)	Corundum(mm)	kg	NA	NA	NA	NA	0	0	0	0
हीरा	Diamond	crt	3590	61399	2946	49640	35724	613504	37517	614087
डायस्पोर(गौ.ख.)	Diaspore(mm)	t	NA	NA	NA	NA	12207	25480	14599	29166
डोलोमाइट(गौ.ख.)	Dolomite(mm)	t	NA	NA	NA	NA	6209476	2251761	7310599	2683923
ड्यूनाइट(गौ.ख.)	Dunite(mm)	t	NA	NA	NA	NA	75050	108474	64917	97848
फेल्सपार(गौ.ख.)	Felspar(mm)	t	NA	NA	NA	NA	1343366	360546	1512982	439282
अग्नि मृतिका(गौ.ख.) (1)	Fireclay(mm) (1)	t	NA	NA	NA	NA	712792	131090	920809	185684
फेल्साइट(गौ.ख.)	Felsite(mm)	t	NA	NA	NA	NA	324	242	551	475
फ्लिन्ट स्टोन	Flint Stone	t	25	5	32	6	294	59	459	136
फ्लूओराइट (श्रेणीकृत)	Fluorite (graded)	t	823	4196	373	1630	2947	13849	2487	11402
गार्नेट (अपघर्ष)	Garnet (abrasive)	t	7940	59439	3936	39250	78924	702729	483559	1113231
गार्नेट (रत्न)	Garnet (gem)	kg	0	0	0	0	0	0	0	0
ग्रेफाइट (खान निर्गत)	Graphite (r.o.m.)	t	15605	10626	9936	6591	116512	76535	146390	102471
जिप्सम(गौ.ख.)	Gypsum(mm)	t	NA	NA	NA	NA	2477849	1283871	3115363	1545061
आयोलाइट	Iolite	kg	0	0	0	0	0	0	0	0
जैस्पर(गौ.ख.)	Jasper(mm)	t	NA	NA	NA	NA	0	0	0	0
केओलिन(कुल)(गौ.ख.)	Kaolin (total)(mm)	t	NA	NA	NA	NA	3861380	1100154	4853420	1240484
केओलिन(प्राकृतिक)(गौ.ख.) (6)	Kaolin (natural)(mm) (6)	t	NA	NA	NA	NA	3787173	840514	4781519	1035516
केओलिन(संसाधित)(गौ.ख.) (7)	Kaolin (processed)(mm) (7)	t	NA	NA	NA	NA	74207	259640	71901	204968
कायनाइट	Kyanite	t	165	659	0	0	6260	10716	3679	8071
सिलिमेनाइट	Sillimanite	t	6992	50822	2677	14829	66025	470599	67265	408247
लेटेराइट(गौ.ख.)	Laterite(mm)	t	NA	NA	NA	NA	4650597	888225	3475368	687807
चूना पत्थर	Limestone	'000t	25642	4702818	24285	4479912	292810	52117464	280863	51332006

(क्रमशः/ Contd.....)

3. खनिज उत्पादन, मार्च 2015
(परमाणु खनिजों और गौण खनिजों को छोडकर)
खनिजवार
3. MINERAL PRODUCTION, MARCH 2015
(Excluding Atomic Minerals and Minor Minerals)
MINERAL-WISE

(मूल्य '000 रुपयें Value in Rs.'000)

खनिज	Mineral	इकाई Unit	मार्च 2015 March 2015		फरवरी 2015 February 2015		अप्रेल 2014 . मार्च 2015 Apr 2014 - Mar 2015		अप्रेल 2013 . मार्च 2014 Apr 2013 - Mar 2014	
			मात्रा / Qty.	मूल्य / Val.	मात्रा / Qty.	मूल्य / Val.	मात्रा / Qty.	मूल्य / Val.	मात्रा / Qty.	मूल्य / Val.
चूना कंकड(गौ.ख.)	Limekankar(mm)	t	NA	NA	NA	NA	111382	21089	140088	28435
लाइम शैल	Limeshell	t	1512	4127	828	2338	16150	36183	18750	35162
मैग्नेसाइट	Magnesite	t	18779	50949	20711	55023	275678	668139	196940	445622
मार्ल	Marl	t	184021	26680	158093	22729	2179489	256240	3254486	280571
अभ्रक(अपरिष्कृत)(गौ.ख.)	Mica (crude)(mm)	kg	NA	NA	NA	NA	635700	21892	1660437	47838
अभ्रक(अपशिष्ट स्केप)(गौ.ख.) (2)	Mica (waste & Scrap)(mm) (2)	kg	NA	NA	NA	NA	11852421	0	19752016	0
मोल्डिंग सैन्ड	Moulding Sand	t	633	178	358	93	6383	1672	29963	4877
गेरू(गौ.ख.)	Ochre(mm)	t	NA	NA	NA	NA	2203708	816164	1580675	495087
परलाइट	Perlite	t	0	0	0	0	0	0	0	0
पायरोफाइलाइट(गौ.ख.)	Pyrophyllite(mm)	t	NA	NA	NA	NA	147431	121085	224677	186193
पायरोक्सोनाइट(गौ.ख.)	Pyroxenite(mm)	t	NA	NA	NA	NA	0	0	2985	806
क्वार्ट्ज(गौ.ख.)	Quartz(mm)	t	NA	NA	NA	NA	1381406	351054	1488743	392258
क्वार्ट्जाइट(गौ.ख.)	Quartzite(mm)	t	NA	NA	NA	NA	583095	325692	584235	342453
सिलिका बालू(गौ.ख.)	Silica Sand(mm)	t	NA	NA	NA	NA	3047485	877497	3724241	966210
बालू (अन्य)(गौ.ख.)	Sand (others)(mm)	t	NA	NA	NA	NA	2100563	243975	2577869	244899
नमक (सैंधा)	Salt (rock)	t	0	0	0	0	0	0	0	0
शैल(गौ.ख.)	Shale(mm)	t	NA	NA	NA	NA	2792904	224542	3006945	170761
स्लेट(गौ.ख.)	Slate(mm)	t	NA	NA	NA	NA	218	197	351	332
स्टियटाइट(गौ.ख.)	Steatite(mm)	t	NA	NA	NA	NA	774281	950316	887925	983272
सेलेनाइट	Selenite	t	207	456	0	0	207	456	531	706
गंधक (3)	Sulphur (3)	t	34573	0	34795	0	429258	0	390325	0
वर्मिकुलाइट	Vermiculite	t	2155	1789	810	711	15327	11094	11851	9470
वोलेस्टोनाइट	Wollastonite	t	12779	11186	16233	14390	186519	162170	192712	157090

** : Cumulative figure for 2014-15 excludes data of 31 minerals during Mar.15 & Feb.15 and cumulative figure for 2013-14 includes data of 31 minerals notified as minor minerals on 10/02/2015.

(समाप्त / Concld.)

ANNEXURE-XI

All India Mineral Resources as on 01.04.2010/*2013

Sl. No	Mineral	Unit	Reserves	Remaining Resources	Total Resources
1	Alexandrite	NA	NE	NE	NE
2	Andalusite	000' tonnes	0	18,450	18,450
3	Antimony*	tonnes			
	Ore		0	10,588	10,588
	Metal		0	174	174
4	Apatite*	tonnes	30,792	22,630,348	22,661,140
5	Asbestos	tonnes	2,510,841	19,655,762	22,166,603
6	Ball clay	tonnes	16,777,842	66,615,662	83,393,504
7	Barytes	tonnes	31,584,128	41,149,746	72,733,874
8	Bauxite*	000' tonnes	830,195	2,908,856	3,739,051
9	Bentonite	tonnes	25,060,508	543,306,838	568,367,346
10	Borax	tonnes	0	74,204	74,204
11	Calcite	tonnes	2,664,338	18,281,110	20,945,448
12	Chalk	000' tonnes	4,332	585	4,917
13	China clay	000' tonnes	177,158	2,528,049	2,705,207
14	Chromite*	000' tonnes	107,221	214,530	321,751
15	Cobalt (Ore)*	Million tonnes	0	44.91	44.91
16	Copper*	000' tonnes			
	Ore		237,573	1,273,445	1,511,018
	Metal		2,996.97	9,221.56	12,219
17	Corundum*	tonnes	598	267,219	267,817
18	Diamond*	carats	984,875	30,876,432	31,861,307
19	Diaspore	tonnes	2,859,674	3,125,144	5,984,818
20	Diatomite	000' tonnes	0	2,885	2,885
21	Dolomite*	000' tonnes	783,905	7,300,667	8,084,572
22	Dunite	000' tonnes	17,137	168,232	185,369
23	Emerald	NA	NE	NE	NE
24	Feldspar	tonnes	44,503,240	87,832,212	132,335,452
25	Fire clay	000' tonnes	30,104	683,415	713,519
26	Fluorite*	tonnes	4,573,348	13,614,193	18,187,541
27	Fullers Earth	tonnes	58,200	256,593,879	256,652,079
28	Garnet	tonnes	19,324,793	37,638,032	56,962,825
29	Gold*	tonnes			
	Ore (Primary)		14,615,965	480,188,061	494,804,026
	Metal (Primary)		71.91	568.5	640.41
	Ore (Placer)		0	26,121,000	26,121,000
	Metal (Placer)		0	5.86	5.86

Contd…

ANNEXURE-XI Contd…

Sl. No	Mineral	Unit	Reserves	Remaining Resources	Total Resources
30	Granite (Dimension Stone)	000’ cum	263,692	45,966,608	46,230,300
31	Graphite*	tonnes	8,468,677	180,204,794	188,673,471
32	Gypsum	000’ tonnes	39,096	1,247,402	1,286,498
33	Iron Ore * Haematite	000’ tonnes	6,606,562	13,969,145	20,575,707
34	Iron Ore* Magnetite	000’ tonnes	34,592	10,712,763	10,747,355
35	Kyanite	tonnes	1,574,853	101,670,767	103,245,620
36	Laterite*	000’ tonnes	59,898	498,777	558,675
37	Lead and zinc*	000’ tonnes			
	Ore		102,795	606,248	709,043
	Metal Lead		2,114.91	9,888.89	12,003.80
	Zinc		10,893.10	24,963.00	35,856.10
	Lead +Zinc		0	140.82	140.82
38	Limestone	000’ tonnes	14,926,392	170,008,720	184,935,112
39	Magnesite*	000’ tonnes	20,773	307,339	328,112
40	Manganese ore*	000’ tonnes	204,510	379,666	584,176
41	Marble	000’ tonnes	276,495	1,654,968	1,931,463
42	Marl	tonnes	139,976,150	11,704,870	151,681,020
43	Mica	Kg.	190,741,448	341,495,531	532,236,979
44	Molybdenum *	tonnes			
	Ore		0	19,371,698	19,371,698
	Contained MoS_2		0	12,668.37	12,668.37
45	Nickel (Ore)*	Million tonnes	0	189	189
46	Ochre	tonnes	54,942,176	89,319,089	144,261,265
47	Perlite	000’ tonnes	428	1,978	2,406
48	PGM (Metal)	tonnes of metal content	0	15.7	15.7
49	Potash	Million tonnes	0	21,816	21,816
50	Pyrite	000’ tonnes	0	1,674,401	1,674,401
51	Pyrophyllite	tonnes	23,275,451	32,807,451	56,082,902
52	Quartz/ Silica Sand	000’ tonnes	429,223	3,069,808	3,499,031
53	Quartzite	000’ tonnes	86,599	1,164,649	1,251,248
54	Rock Phosphate*	tonnes	65,391,551	249,119,998	314,511,549
55	Rock Salt	000’ tonnes	16,026	0	16,026
56	Ruby	Kg.	236	5,112	5,348
57	Sapphire	Kg.	0	450	450
58	Shale	000’ tonnes	15,331	580	15,911
59	Sillimanite	tonnes	4,085,052	62,902,385	66,987,437

Contd…

ANNEXURE-XI Concld.

Sl. No	Mineral	Unit	Reserves	Remaining Resources	Total Resources
60	Silver*	tonnes			
	Ore		118,281,065	401,288,894	519,569,959
	Metal		7,907.97	21,880.38	29,788.35
61	Slate	000' tonnes	0	2,369	2,369
62	Sulphur (Native)	000' tonnes	0	210	210
63	Talc/Steatite/Soapst	000' tonnes	90,026	178,996	269,022
64	Tin*	tonnes			
	Ore		6,973	83,719,193	83,726,166
	Metal		1,181.19	101,093.65	102,274.84
65	Titanium minerals	tonnes	22,030,223	371,965,694	393,995,917
66	Tungsten*	tonnes			
	Ore		0	87,387,464	87,387,464
	Contained WO_3		0	142,094.35	142,094
67	Vanadium*	tonnes			
	Ore		0	24,633,855	24,633,855
	Contained V_2O_5		0	64,594.01	64,594
68	Vermiculite	tonnes	1,704,007	803,003	2,507,010
69	Wollastonite	tonnes	2,487,122	14,082,751	16,569,873
70	Zircon	tonnes	1,347,470	1,786,482	3,133,952

Figures rounded off.
N.E. - Not Estimated
** Reserves/resources as on 1-04-2013*

भारत सरकार / Government of India
खान मंत्रालय / Ministry of Mines
भारतीय खान ब्यूरो / Indian Bureau of Mines
मुख्य खान नियंत्रक का कार्यालय / Office of the Chief Controller of Mines
****

No.N-11013/3/MP/90-CCOM-Vol.-VII Nagpur, dated 11.06.2014

CCOM'S CIRCULAR NO. 1/2014

Subject: Submission of Geo-referenced Cadastral Map and modification in Item No. 6 of Circular No. 2/2010 dated 06-04-2010 regarding submission of CARTOSAT–2 satellite data.

Vide letter No. No.N-11013/3/MP/90-CCOM-Vol-II, dated 06.04.2010 a circular was issued by the Office of the Chief Controller of Mines, IBM regarding submission of Geo-referenced Cadastral Maps. A representation was received from Central Mine Planning & Design Institute Ltd. (CMPDI) regarding difficulty in acquiring CARTOSAT–2 satellite data. The matter was referred to National Remote Sensing Centre (NRSC) who have opined that CARTOSAT-1 PAN and LISS-IV MX can be used for superimposing the mine leasehold boundary in case of non-availability of CARTOSAT-2 data.

In view of the this, the Item No. 6 of the Circular No. 2/2010 dated 06-04-2010 is modified and may be read as follows:-

"The geo-referenced mining leases/prospecting licenses map shall be superimposed on latest high-resolution satellite data (cloud free) CARTOSAT-1 or merged data of CARTOSAT-1 PAN and LISS-IV MX in case of non-availability of CARTOSAT-2 data".

This issues with the approval of CG-In-charge, IBM.

11/6/14

(Ranjan Sahai)
Controller of Mines

Copy to :-

1) The Controller of Mines (NZ/CZ/SZ), Indian Bureau of Mines, Ajmer/ Nagpur / Bangalore for information.
2) The Regional Controller of Mines/DCOM-OIC, Indian Bureau of Mines, Ajmer / Bangalore / Bhubaneshwar / Chennai / Dehradun / Goa / Hyderabad / Jabalpur / Kolkata / Nagpur / Ranchi / Udaipur for information & circulation to all RQP's.
3) The Technical Secretary, IBM, Nagpur.

11/6/14

(Ranjan Sahai)
Controller of Mines

By Fax/Email

GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES
OFFICE OF THE CHIEF CONTROLLER OF MINES

No N-11011/17/RML/2012/CCOM

Nagpur dated 11/08/2014

To,

The Controller of Mines (CZ/SZ/NZ),
Indian Bureau of Mines
Nagpur/Bangalore/Ajmer

The Regional Controller of Mines/Officer In Charge,
Indian Bureau of Mines,
Ajmer / Bangalore / Bhubaneshwar / Chennai / Dehradun / Goa / Hyderabad / Jabalpur / Kolkata / Nagpur / Ranchi / Udaipur/.

Sub: Modification to CCOM Circular No. 6/2002.

Sir,

The CCOM Circular No. 6/2002 issued vide file no. N-11011/1/RML/97-CCOM Vol.III dated 12/9/2002 is hereby modified to the extent below:

First paragraph of page 2 of the circular "*The report should be based on the facts and figures and opinion on any matter is not expected*" will now be replaced by:

"The report should be complete and *specific recommendation to be furnished on the basis of facts and figures as to whether it would be in the interest of mineral development to grant the renewal of mining lease or not*".

This issues with the approval of Controller General, IBM In Charge, IBM.

Yours Faithfully,

[Dr P.K. Jain]
Superintending Mining Geologist

Copy for information and record to:
1. The Technical Secretary, IBM, Nagpur.
2. Guard File.

[Dr P.K. Jain]
Superintending Mining Geologist

GOVERNMENT OF INDIA
MINISTSRY OF MINES
INDIAN BUREAU OF MINES
ORE DRESSING DIVISION

SCHEDULE OF CHARGES FOR THE ORE DRESSING DIVISION, INDIAN BUREAU OF MINES WITH EFFECT FROM 1st MARCH, 2013

Sl.No.	Item of Work	Charges for 'A' Category Mines (Rs.)	Charges for 'B' Category Mines (Rs.)
A.	**LABORATORY SCALE ORE DRESSING INVESTIGATIONS:**		
I	**Full Scale Laboratory Investigations (Involving Physical , Chemical and Mineralogical characterisation)**		
1.	Complete Laboratory Scale Ore Dressing investigation involving studies for recovery of **one mineral** by various physical beneficiation methods (per sample)	2,05,000	1,45,000
2	Complete Laboratory Scale Ore Dressing investigation involving studies for recovery of **two or more minerals** by various physical beneficiation methods (per sample)	4,10,000	2,90,000
II	**Amenability Tests Involving Single Beneficiation Technique (Including Sample Preparation, Chemical Analysis and Mineralogy)**		
1.	Flotation	1,65,000	1,20,000
2.	Gravity Separation (Jigging, Tabling, Heavy Media Separation, etc.)	1,65,000	1,20,000
3.	Magnetic Separation	1,65,000	1,20,000
4.	Deflocculation and bleaching studies (with PSA, Brightness, Chemical Analysis)	1,65,000	1,20,000
5.	Thickening / Filtration Studies	1,65,000	1,20,000
6.	Air Classification /Wet Classification	1,65,000	1,20,000
7.	Electrostatic Separation	1,65,000	1,20,000

Sl.No.	Item of Work	Charges for 'A' Category Mines (Rs.)	Charges for 'B' Category Mines (Rs.)
III	**Single Ore Dressing Unit Operation Under Specified Conditions Including Chemical Analysis and Mineralogy (Per Test)**		
1.	Flotation	35,000	25,000
2.	Gravity Separation (Jigging, Tabling, Humphreys Spiralling, Heavy Media Separation, Floatex Density Separation, Stub Cycloning etc)	35,000	25,000
3.	Magnetic Separation , Dry or Wet	35,000	25,000
4.	Bond's Work Index Determination (Ball / Rod Mill) (Per sample)	40,000	28,000
5.	Grindability Index Determination (Per Sample)	25,000	18,000
6.	Cyclosizing	25,000	18,000
7.	Attrition Scrubbing followed by Sizing	25,000	18,000
8.	Tumbler Index Determination	25,000	18,000
9.	Shatter Index Determination	25,000	18,000
10.	Screening	17,000	12,000
11.	Particle Size Analysis (Sub micron sizes) (Per Test)	7,000	5,000
12.	Brightness Measurement (Per sample)	1,700	1,200
13.	Surface Area by BET Technique per sample (Minimum 10 samples)	5,000	3,500
14.	Bottle Roll Cyanidation and CIP (Per test)	70,000	50,000

Sl.No.	Item of Work	Charges for 'A' Category Mines (Rs.)	Charges for 'B' Category Mines (Rs.)
B	**PILOT PLANT SCALE INVESTIGATIONS**:		
I	Complete Pilot Plant Investigation (Quantity of ore to be specified by IBM depending on the complexity of the sample)		
a	Studies for recovery of **one mineral**	4,10,000	2,90,000
b	Studies for recovery of **two or more minerals**	6,15,000	4,35,000
II	Pilot Plant Test comprising of a single Ore Dressing Unit Operation under specified conditions including chemical and mineralogical analysis. (Quantity of Ore to be specified by IBM)		
1.	Gravity Separation viz Heavy Media Separation, Jigging, Tabling with Classification, Spiralling, Bowl Concentration, GEC Duplex Table, Centrifugal Separator, Floatex Density Separator etc.)	2,05,000	1,45,000
2.	Magnetic Separation	2,05,000	1,45,000
3.	Column Floatation	3,30,000	2,35,000
4.	Scrubbing and Classification	2,05,000	1,45,000
5.	Classification / Hydrocycloning	2,05,000	1,45,000
6.	Crushing and Screening	1,65,000	1,20,000
7.	Sintering Studies	3,30,000	2,35,000
8.	Pelletisation Studies	3,30,000	2,35,000
III	Techno-Economic Pre-Feasibility Studies on the basis of available laboratory and pilot plant report (for selection of equipment and operating costs)	4,10,000	--
NOTE:			
1.	The above charges do not include cost of production of concentrate for end use testing.		
2.	The charges for Indian companies/ organizations which are directly involved in consultancy jobs in mining and exploration for foreign samples are to be levied **Twice** the charges of "A" Category Mines.		
3.	The charges for overseas companies/organizations which are directly involved in consultancy jobs in mining and exploration are to be levied **Three times** the charges of "A" Category Mines.		
4.	**Service Taxes and Education Cess Extra (as applicable).**		
5.	**'B' category charges would be applicable only after producing the 'B' category certificate of recent time/date issued by respective Regional Controller of Mines, Indian Bureau of Mines.**		

Sl.No.	Item of Work	Charges for 'A' Category Mines (Rs.)	Charges for 'B' Category Mines (Rs.)
C.	**SCHEDULE OF CHARGES FOR CHEMICAL ANALYSIS**:		
1.	Quantitative chemical analysis of radicals by Classical Wet Analysis method	Rs.850/- for the first radical and Rs.600/- for each of the subsequent radical	Rs.600/- for the first radical and Rs.450/- for each subsequent radicals
2.	Elemental Analysis using instruments viz. XRF, AAS, ICPA, FTIR, Ion Chromatograph, Mercury Analyser, Flame Photo Meter, Isotope Analyser, UV / VIS Spectrometer, C & S Analyser etc.	Rs.600/- for the first radical and Rs.300/- for each of the subsequent radical	Rs.450/- for the first radical and Rs.210/- for each of the subsequent radicals
3.	XRF Scanning per sample	Rs.1,000/-	Rs. 700/-
4.	Proximate Analysis of Coal or Determination of Fixed Carbon in Coal	Rs. 600/-	Rs.450/-
5.	Determination of Volatile Matter / Ash / Moisture in Coal	Rs.200/- for each radical	Rs. 140/- for each radical
6.	Platinum Group of Minerals for one element of PGM Analysis, Estimation of Gold by Fire Assay	Rs.4,000/- for the first radical and Rs.350/- for subsequent radicals	No concession for small mines.
7.	Estimation of Gold by Fire Assay	Rs.1,200/- per radical	Rs. 850/- per radicals
8.	Sample preparation upto 500 gm including crushing, grinding and drawing 25 gm representative sample of minus 300# size for Chemical Analysis	Rs. 175/- per sample	Rs.130/- per sample
9.	Environmental Analysis	Standard cost as proposed by Central Pollution Control Board	No concession for 'B' Category mines

NOTE:

The Controller General, Indian Bureau of Mines shall have the discretionary power to charge 50% of that of 'B' Category mines for **Chemical Analysis** for academic & research students on production of recommendation letter from their respective head of academic institutions.

Sl.No.	Item of Work	Charges for 'A' Category Mines (Rs.)	Charges for 'B' Category Mines (Rs.)
D	**SCHEDULE OF CHARGES FOR MINERALOGICAL STUDIES**:		
1.	Mineralogical examination on rocks, ores, minerals and sinters etc. by microscopic studies (only mineral identification).	2,000	1,400
2.	* Detailed mineralogical studies for identification and quantitative estimation of minerals and liberation characteristics involving mineral separation by heavy liquid and magnetic separation	6,000	4,200
3.	* Mineralogical studies to assess the amenability to mineral beneficiation involving size analysis, Frantz Isodynamic Magnetic Separation including necessary Chemical Analysis	10,000	7,000
4.	*Electron Probe Micro Analyser (EPMA) studies (Per hour per sample)	5,000	3,500
5.	Identification of mineral phases in ore and rock samples by X-Ray Diffraction / DTA / DTG (Per sample).	3,000	2,100
6.	Photomicrographs (three prints)	1,000	700
7.	Determination of specific gravity (by Walker steel yard balance)	200	140
8.	Determination of Hardness by Mohs Scale	165	120

NOTE:

The Controller General, Indian Bureau of Mines shall have the discretionary power to charge 50% of that of 'B' Category mines for **Mineralogical Studies** to be carried out for academic research students on production of recommendation letter from a respective head of academic institutions.

* The investigation will be considered as one limited ore dressing investigation.

E. SCHEDULE OF CHARGES FOR CONSULTANCY SERVICES PER DAY RENDERED BY OFFICERS OF ORE DRESSING DIVISION, INDIAN BUREAU OF MINES IN INDIA AND FOREIGN ASSIGNMENTS

Sl.No.	ITEM OF WORK	CONSULTANCY CHARGES (FOR INDIAN ASSIGNMENTS)	CONSULTANCY CHARGES (FOR FOREIGN ASSIGNMENTS)
1.	Officers of Group 'A ' Category'	4,200	12,000
2.	Officers of Group 'B' Category'	2,400	7,200
3.	Officers of Group 'C' Category'	1,500	4,500
NOTE:			
1.	Actual travel expenses (to and fro) of the officers including hotel accommodation as per their entitlement is to be borne by the client.		
2.	If the client prefers, the technical personnel may be allowed to travel by higher class even if they are not allowed under the Govt. rules		
3	The daily rates are payable for the total period of absence from the head quarter inclusive of the period of journey.		
4.	**The following job will be carried out under consultancy services and the charges will be calculated based on the quantum of work, actual man-power involved in the job and man-days.**		
	➢ Plant Auditing studies of a mineral processing plant.		

SCHEDULE OF CHARGES FOR CONSULTANCY SERVICES RENDERED BY
TECHNICAL CONSULTANCY , INDIAN BUREAU OF MINES
(With effect from- 01.03.2013)

1.	**Charges for Services of IBM personnel (Basic Rate Per Day)**		
	Category of personnel	**Rates for Category-A Mines (Rs.)**	**Rates for Category-B Mines (Rs.)**
		Revised	**Revised**
	Group-A Officers	4,200/-	2,500/-
	Group-B Officers	2,400/-	1,500/-
	Group-C Officers	1,500/-	900/-
2.	Bulk Sample Collection	As per actual Man-days	As per actual Man-days
3.	Geological Mapping on 1:1000 / 1:2000 Scale	46,000/-	
4.	Geological Logging of boreholes (Charge per meter)	200/-	
5.	Topographic / Mine Survey	46,000/-	
6.	Mine Excavation / Dump Measurement	46,000/-	
7.	Connection of Mining Lease with National Grid	46,000/-	
8.	Mine Planning & Designing	As per actual Man-days	As per actual Man-days
9.	Preparation of Pre-feasibility Report	As per actual Man-days	As per actual Man-days
10.	Due diligence of Mineral Property	5% of total cost	5% of total cost
11.	Charges for the Report* • First 3 copies. • Each additional copy requested at the time of work order. • Additional copy requested at a later stage after completion of the project.	20,000/- 5,000/- 10,000/-	10,000/- 1,500/- 5,000/-

* For Plates, extra charges, as per actual may be levied considering the volume of work.

NOTE : For the purpose of levying the above charges for technical consultancy services, the following clarifications will apply :

1. Service Tax, Education Cess and Agreement Registration Charges extra.

2. The cost of deployment of IBM personnel depending on the nature of terrain and quantum of work involved in the assignment will be charged extra for Item Numbers at Sr. Nos. 2, 3, 5, 7, 8 & 9 as per the Basic Rate per day mentioned at Sr.No.1.

3. In case of B-Category Mines, no charge will be leviable for the number of days spent in journey from the IBM Headquarter, Nagpur, to the mine-site and from the mine-site to IBM Headquarter, Nagpur.

4. If the client wants, the personnel of IBM may undertake journey by air even if they are not entitled for the same under general rules of the Government, provided that the client pays for the same.

5. The rates mentioned above are exclusive of labour charges for field work assistance for Items at Sr. Nos.2, 3, 4, 5, 6, 7, 8 & 9. These are to be charged for separately at actual if the labour is not provided by the client.

6. Any other ancillary work such as Chemical analysis, Mineralogical and other tests of Ore dressing investigation, if done in the IBM Laboratory / Pilot Plant, will be payable by the client separately as per the Schedule of charges fixed by the Government from time to time, in this respect.

7. In addition to the charges mentioned above, the client will be required to pay the expenses of TA & DA admissible to the individual for the entire period of their tour undertaken in connection with the services, except in the case of B-Category Mines who will not be charged the TA & DA expenses.

8. Mines will be categorised as follows :

- **A-Category** : A mine where the average employment exceeds 75 in workings below ground or 150 in all the mine or a mine where work is being carried on by a system of deep hole blasting and / or with the help of heavy machinery for drilling, excavation and transport of earth, stone, minerals etc. OR prospect area covering more than 75 Hect.

- **B-Category**: Any other mine than that covered under A-Category OR Prospect area upto 75 Hect.

Explanation: The expression ‘average employment’ means the average per day of the total employment of the mine during the preceding quarter (obtained by dividing the number of working days excluding rest days and other non-working days).

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SCHEDULE OF CHARGES FOR CONSULTANCY SERVICES RENDERED BY
MINING RESEARCH CELL INDIAN BUREAU OF MINES
(with effect from- 01.03.2013)

Sr. No.	Category of Personnel		Rates for A-Category Mines (Rs.)	Rates for B-Category Mines (Rs.)
1.	A	DCOM / RMG / SMG / Sr. ACOM /ACOM / JMG	4,200/-	2,500/-
	B	AME / AMG / STA / JTA / D'Man	2,400/-	1,500
	C	Group'C'	1,500/-	900/-
2.	Charges for Sub-contractor's services			
	1. Sub-contractor's Fee		Actual charges by the sub-contractor.	
	2. Service Charges of IBM		5% of sub-contractor's fee subject to minimum Rs.5,000/-	
3.	Charges for report	• First Three Copies	20,000/-	10,000/-
		• Each additional copy	5,000/-	1,500/-
		• Each additional copy at later stage after completion of the project	10,000/-	5,000/-
4.	Due diligence of Mineral Property		5% of the total cost.	
5.	Service Taxes		Service Tax & Educational Cess extra.	
6.	Agreement Registration Charges		Actual to be borne by the party.	
7.	Sample analysis (Water & Soil)		Rates as notified by CPCB & MOEF.	
8.	Monitoring charges for Air Quality / Station / Season		Rs.19,716/- say Rs.20,000/-	Rs.15,816/- say Rs.16,000/-

NOTE :

For the purpose of levying the above charges for consultancy services of Mining Research Cell, the following clarifications will apply :

1. Charges towards installation / depreciation of instruments / equipment and consumable required for the field study will be borne by the client.

2. In case of B-Category Mines, no charge will be leviable for the days spent in journey from the IBM Headquarter to the mine and from the mine to the IBM Headquarter.

3. In addition to the charges mentioned above, the client will be required to pay for the expenses of TA & DA admissible to the individuals for the entire period of their tour undertaken in connection with the services, except in the case of B-Category Mines who will not be charged the TA & DA expenses.

4. If the client wants, the personnel of IBM may undertake journey by air even if they are not entitled for the same under general rules of the Government, provided that the client pays for the same.

5. For field work, transport has to be provided by the client. But, if he is unable to do so and if departmental vehicle is available, this may be provided on payment of actual for POL and other contingent expenses etc.

6. The rates mentioned above are exclusive of labour charges in connection with the cleaning of bushes, assistance in survey work, drawing of samples etc. These are to be charged for separately at actual if the labour is not provided by the client.

7. Any other ancillary work such as Chemical analysis, Mineralogical and other tests of Ore dressing investigation, if done in the IBM Laboratory / Pilot Plant / other recognized laboratories will be payable by the client separately as per the Schedule of charges fixed by the Government in this respect from time to time.

8. In case of long term investigations, (i.e. which has not been completed within one year from the date of receipt of advance), the above schedule will apply for the work done within one year from the date of receipt of advance and for the work done during each successive period of one year or part thereof, the schedule of charges as prevailing at the beginning of the period concerned will apply.

Mines will be categorised as follows:

- **A-Category** : A mine where the average employment exceeds 75 in workings below ground or 150 in all the mine or a mine where work is being carried on by a system of deep hole blasting and / or with the help of heavy machinery for drilling, excavation and transport of earth, stone, minerals etc.

- **B-Category** : Any other mine than that covered under A-Category Mine.

Explanation : The expression ‘average employment’ means the average per day of the total employment of the mine during the preceding quarter (obtained by dividing the number of working days excluding rest days and other non-working days).

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Annexure - XIV-A

Status of Reconnaissance Permits in India
(as on 31/03/2015)

Sr. No.	State Name	Total No. of RPs approved for grant	No. of RPs whose Final Exploration report submitted to IBM
1	Andhra Pradesh	56	41
2	Arunachal Pradesh	1	-
3	Chhattisgarh	42	24
4	Gujarat	4	-
5	Jharkhand	4	2
6	Karnataka	66	26
7	Kerala	1	-
8	Madhya Pradesh	91	28
9	Maharashtra	10	8
10	Manipur	1	-
11	Odisha	26	19
12	Rajasthan	74	29
13	Uttar Pradesh	21	8
14	West Bengal	4	1
	Total	**401**	**186**

ANNEXURE-XIV-B

Status of Prospecting Licences in India
(as on 31/03/2015*)

Sl. No.	Name of State	Total No. of PL granted by the State Government (from November, 2007 to 31.03.2015)	No. of PL where final exploration data submitted to IBM
1	Andhra Pradesh & Telangana	109	44
2	Arunachal Pradesh	14	01
3	Chhattisgarh	147	73
4	Gujarat	16	00
5	Himachal Pradesh	05	03
6	Jharkhand	22	05
7	Jammu & Kashmir	01	00
8	Karnataka	09	06
9	Kerala	01	00
10	Madhya Pradesh	440	149
11	Maharashtra	38	04
12	Manipur	14	01
13	Meghalaya	12	04
14	Odisha	06	06
15	Rajasthan	242	08
16	Tamil Nadu	18	00
17	Uttarakhand	42	00
18	Uttar Pradesh	03	00
19	West Bengal	03	00
	Total	**1142**	**304**

*****to extent grant orders, reports & data from regional offices received.

ANNEXURE-XIV-C

State Wise Summary of Lease Distribution
As On 31/03/2014
(All India)

Sl. No.	State	No. of Leases	Lease area (Hect.)
1	Andhra Pradesh*	2038	61470.00
2	Assam	7	889.50
3	Bihar	9	1382.66
4	Chhattisgarh	300	22070.85
5	Goa	267	19892.01
6	Gujarat	1100	29632.55
7	Himachal Pradesh	44	2542.39
8	Haryana	110	10974.99
9	Jammu & Kashmir	57	2450.93
10	Jharkhand	282	30344.92
11	Karnataka	545	47653.07
12	Kerala	91	3077.84
13	Manipur	1	132.78
14	Meghalaya	18	606.19
15	Madhya Pradesh	1001	32882.58
16	Maharashtra	260	15454.61
17	Odisha	461	73594.13
18	Rajasthan	3306	84140.69
19	Sikkim	3	96.32
20	Tamil Nadu	931	9765.52
21	Uttar Pradesh	23	3964.70
22	Uttarakhand	83	1272.85
23	West Bengal	45	414.07
	Total	**10982**	**454706.15**

*****Including Telangana

ANNEXURE-XIV-D

Mineral Wise Summary of Lease Distribution
As on 31/03/2014
(All India)

Sl. No.	Mineral	No. of Leases	Lease Area (Hect.)
1	Agate	3	59.62
2	Amethyst	4	10.63
3	Apatite	2	20.17
4	Asbestos	7	394.74
5	Ball Clay	88	1970.37
6	Barytes	160	2442.58
7	Bauxite	339	28613.60
8	Borax	1	159.00
9	Calcite	73	1223.23
10	Chalk	152	628.9
11	China clay	489	13304.07
12	Chromite	34	8955.19
13	Clay (others)	100	1191.25
14	Copper Ore	14	5324.67
15	Corundum	9	68.25
16	Diamond	2	275.96
17	Diaspore	11	77.38
18	Dolomite	543	7625.84
19	Dunite	1	14.28
20	Epidote	1	5.00
21	Felsite	6	102.29
22	Felspar	1008	6099.36
23	Fireclay	235	4073.76
24	Flint Stone	2	11.87
25	Fluorite	9	1280.85
26	Garnet	94	1513.53
27	Garnet(Gem)	3	51.03
28	Gold	16	9869.36
29	Graphite	104	3510.60
30	Gypsum	107	14868.49
31	Iolite	11	104.35
32	Iron ore	664	86326.39
33	Jasper	2	10.00
34	Kyanite	33	3138.10
35	Laterite	208	2549.59
36	Lead & Zinc ore	12	6997.28
37	Lime kankar	7	37.18
38	Limeshell	26	3748.17
39	Limestone	1923	150906.80

Contd..

ANNEXURE-IIB
Concld.

Sl. No.	Mineral	No. Of Leases	Lease Area (Hect.)
40	Magnesite	34	1931.57
41	Manganese ore	308	20383.98
42	Marl	1	4.90
43	Mica	244	4417.21
44	Moulding sand	33	723.51
45	Ochre	157	1939.98
46	Perlite	1	144.88
47	Phosphorite	10	2120.90
48	Pyrophyllite	94	1231.23
49	Pyroxenite	11	95.39
50	Quartz	2427	18336.46
51	Quartzite	80	1423.62
52	Ruby	6	130.00
53	Sand (others)	44	3110.06
54	Sapphire	1	673.40
55	Shale	31	403.34
56	Silica sand	453	12461.06
57	Sillimanite	6	2823.26
58	Slate	17	627.82
59	Steatite	428	12808.30
60	Tin	16	324.66
61	Vermiculite	12	185.5
62	White clay	40	633.34
63	White shale	15	77.34
64	Wollastonite	10	130.6
	Total	**10982**	**454706.15**

6. State wise Average Sale Price of Minerals by grades for which royalty is chargeable on ad valorem basis not linked to any international benchmark price

Month : March 2015

State / Mineral / Grades		Avg. Price
India		
Bauxite	Rs./t	
Non-Metallurgical		
Cement		349
Abrasive		1440
Refractory		1886
Chemical		445
Chromite	Rs./t	
Lumps		
Below 40% Cr2O3		NA
40% to below 52% Cr2O3		NA
52% Cr2O3 and above		NA
Fines		
Below 40% Cr2O3		2155
40% to below 52% Cr2O3		12067
52% Cr2O3 and above		13264
Concentrates		10968
Iron Ore (lumps)	Rs./t	
Below 55% Fe		843
55% to below 58% Fe		2805
58% to below 60% Fe		2805
60% to below 62% Fe		3004
62% to below 65% Fe		3344
65% Fe and above		3608
Iron Ore (fines)	Rs./t	
Below 55% Fe		452
55% to below 58% Fe		1498
58% to below 60% Fe		1904
60% to below 62% Fe		1904
62% to below 65% Fe		2076
65% Fe and above		2643
Iron Ore Conc.	Rs./t	1400
Manganese Ore	Rs./t	
Dioxide ore		22937
Below 25% Mn		1749
25% to below 35% Mn		4210
35% to below 46% Mn		9234
46% Mn and above		11663
Apatite	Rs./t	2220
Phosphorite	Rs./t	
Below 25% P2O5		328
25% to below 30% P2O5		1266
30% P2O5 and above		6546
Asbestos	Rs./t	
Amphibole		NA
Corundum (ruby)	Rs./kg	NA
Diamond	Rs./crt	17103
Flint Stone	Rs./t	200
Fluorite (graded)	Rs./t	
Below 30% CaF2		NA
30% to below 70% CaF2		4829
70% to below 85% CaF2		8585
85% CaF2 and above		NA
Garnet (abrasive)	Rs./t	7486
Garnet (gem)	Rs./kg	NA
Kyanite	Rs./t	
Below 40% Al2O3		NA
40% Al2O3 and above		3992
Sillimanite	Rs./t	7269
Magnesite	Rs./t	3478
Moulding Sand	Rs./t	282
Perlite	Rs./t	NA
Pyrites	Rs./t	NA
Salt (rock)	Rs./t	NA
Selenite	Rs./t	2205
Vermiculite	Rs./t	940
Wollastonite	Rs./t	875
Aluminium (lme Price)*	$/mt	1773
Copper (lme Price)*	$/mt	5926
Lead (lme Price)*	$/mt	1785
Nickel (lme Price)*	$/mt	13746
Tin (lme Price)*	$/mt	17460
Zinc (lme Price)*	$/mt	2029
Silver (lbm Price)*	c/tr oz	1622
Gold (lbm Price)*	$/tr oz	1179
Andhra Pradesh		
Iron Ore (lumps)	Rs./t	
Below 55% Fe		661
55% to below 58% Fe		NA
58% to below 60% Fe		NA
60% to below 62% Fe		NA
62% to below 65% Fe		NA
Iron Ore (fines)	Rs./t	
Below 55% Fe		259
55% to below 58% Fe		NA
60% to below 62% Fe		NA
62% to below 65% Fe		NA
Manganese Ore	Rs./t	
Dioxide ore		NA
Below 25% Mn		1554
25% to below 35% Mn		1810
35% to below 46% Mn		2635
46% Mn and above		NA
Apatite	Rs./t	2220
Asbestos	Rs./t	
Amphibole		NA
Garnet (abrasive)	Rs./t	7553
Sillimanite	Rs./t	8029
Vermiculite	Rs./t	498
Bihar		
Pyrites	Rs./t	NA
Chhattisgarh		
Bauxite	Rs./t	
Non-Metallurgical		
Abrasive		NA
Refractory		NA
Iron Ore (lumps)	Rs./t	
Below 55% Fe		NA
55% to below 58% Fe		NA
58% to below 60% Fe		NA
60% to below 62% Fe		NA
62% to below 65% Fe		2786
65% Fe and above		3563
Iron Ore (fines)	Rs./t	
Below 55% Fe		NA
55% to below 58% Fe		1744
58% to below 60% Fe		1872
60% to below 62% Fe		2106

NA : Not Available lme: London Metal Exchange t : Tonne mt : Metric Tonne
(U) : Under Reference lbm: London Bullion Market c : Cents $: Dollar tr oz : Troy Ounce

* : Average Sale Price for March 2015, Source - MINERALS & METALS REVIEW, April 2015. Average of the daily prices have been taken for Gold & Silver.

6. State wise Average Sale Price of Minerals by grades for which royalty is chargeable on ad valorem basis not linked to any international benchmark price

Month : March 2015

State / Mineral / Grades		Avg. Price
62% to below 65% Fe		2385
65% Fe and above		2671
Fluorite (graded)	Rs./t	
85% CaF2 and above		NA
Moulding Sand	Rs./t	282
Goa		
Bauxite	Rs./t	
Non-Metallurgical		
Cement		NA
Iron Ore (lumps)	Rs./t	
Below 55% Fe		NA
55% to below 58% Fe		NA
58% to below 60% Fe		NA
60% to below 62% Fe		NA
62% to below 65% Fe		NA
65% Fe and above		NA
Iron Ore (fines)	Rs./t	
Below 55% Fe		NA
55% to below 58% Fe		NA
58% to below 60% Fe		NA
60% to below 62% Fe		NA
62% to below 65% Fe		NA
65% Fe and above		NA
Iron Ore Conc.	Rs./t	NA
Manganese Ore	Rs./t	
Below 25% Mn		NA
25% to below 35% Mn		NA
35% to below 46% Mn		NA
46% Mn and above		NA
Gujarat		
Bauxite	Rs./t	
Non-Metallurgical		
Cement		427
Abrasive		1440
Refractory		1550
Chemical		200
Manganese Ore	Rs./t	
Below 25% Mn		NA
Fluorite (graded)	Rs./t	
Below 30% CaF2		NA
Perlite	Rs./t	NA
Himachal Pradesh		
Salt (rock)	Rs./t	NA
Jharkhand		
Bauxite	Rs./t	
Non-Metallurgical		
Cement		NA
Iron Ore (lumps)	Rs./t	
Below 55% Fe		1093
55% to below 58% Fe		1839
58% to below 60% Fe		3599
60% to below 62% Fe		3599
62% to below 65% Fe		4465
65% Fe and above		NA
Iron Ore (fines)	Rs./t	
Below 55% Fe		588
55% to below 58% Fe		781
58% to below 60% Fe		1877
60% to below 62% Fe		1877
62% to below 65% Fe		1877
65% Fe and above		NA
Manganese Ore	Rs./t	
Dioxide ore		NA
Below 25% Mn		NA
25% to below 35% Mn		6500
35% to below 46% Mn		NA
46% Mn and above		NA
Flint Stone	Rs./t	200
Kyanite	Rs./t	
Below 40% Al2O3		NA
40% Al2O3 and above		NA
Karnataka		
Bauxite	Rs./t	
Non-Metallurgical		
Cement		250
Chromite	Rs./t	
Lumps		
Below 40% Cr2O3		NA
40% to below 52% Cr2O3		NA
Fines		
Below 40% Cr2O3		NA
40% to below 52% Cr2O3		NA
Concentrates		NA
Iron Ore (lumps)	Rs./t	
Below 55% Fe		1225
55% to below 58% Fe		2933
58% to below 60% Fe		2933
60% to below 62% Fe		2965
62% to below 65% Fe		2970
65% Fe and above		3053
Iron Ore (fines)	Rs./t	
Below 55% Fe		1077
55% to below 58% Fe		1826
58% to below 60% Fe		1977
60% to below 62% Fe		2152
62% to below 65% Fe		2707
65% Fe and above		2788
Iron Ore Conc.	Rs./t	NA
Manganese Ore	Rs./t	
Below 25% Mn		1305
25% to below 35% Mn		4760
35% to below 46% Mn		NA
46% Mn and above		NA
Kyanite	Rs./t	
40% Al2O3 and above		NA
Magnesite	Rs./t	4545
Kerala		
Sillimanite	Rs./t	9000
Madhya Pradesh		
Bauxite	Rs./t	
Non-Metallurgical		
Cement		571
Refractory		2011
Chemical		650
Iron Ore (lumps)	Rs./t	
Below 55% Fe		776
55% to below 58% Fe		776
58% to below 60% Fe		2400
60% to below 62% Fe		NA
Iron Ore (fines)	Rs./t	

NA : Not Available lme: London Metal Exchange t : Tonne mt : Metric Tonne
(U) : Under Reference lbm: London Bullion Market c : Cents $: Dollar tr oz : Troy Ounce

* : Average Sale Price for March 2015, Source - MINERALS & METALS REVIEW, April 2015. Average of the daily prices have been taken for Gold & Silver.

6. State wise Average Sale Price of Minerals by grades for which royalty is chargeable on ad valorem basis not linked to any international benchmark price

Month : March 2015

State / Mineral / Grades		Avg. Price
Below 55% Fe		391
55% to below 58% Fe		NA
58% to below 60% Fe		NA
60% to below 62% Fe		NA
Manganese Ore	Rs./t	
Dioxide ore		NA
Below 25% Mn		1728
25% to below 35% Mn		4090
35% to below 46% Mn		7849
46% Mn and above		11600
Phosphorite	Rs./t	
Below 25% P2O5		748
25% to below 30% P2O5		1266
30% P2O5 and above		NA
Diamond	Rs./crt	17103
Maharashtra		
Bauxite	Rs./t	
Non-Metallurgical		
Cement		185
Iron Ore (lumps)	Rs./t	
Below 55% Fe		2280
55% to below 58% Fe		2280
58% to below 60% Fe		2280
60% to below 62% Fe		NA
62% to below 65% Fe		NA
Iron Ore (fines)	Rs./t	
Below 55% Fe		419
55% to below 58% Fe		419
58% to below 60% Fe		NA
60% to below 62% Fe		NA
62% to below 65% Fe		NA
Manganese Ore	Rs./t	
Dioxide ore		28513
Below 25% Mn		2056
25% to below 35% Mn		4562
35% to below 46% Mn		9684
46% Mn and above		11873
Fluorite (graded)	Rs./t	
30% to below 70% CaF2		4829
70% to below 85% CaF2		8585
85% CaF2 and above		NA
Kyanite	Rs./t	
Below 40% Al2O3		NA
40% Al2O3 and above		3992
Sillimanite	Rs./t	1575
Odisha		
Chromite	Rs./t	
Lumps		
Below 40% Cr2O3		NA
40% to below 52% Cr2O3		NA
52% Cr2O3 and above		NA
Fines		
Below 40% Cr2O3		2155
40% to below 52% Cr2O3		12067
52% Cr2O3 and above		13264
Concentrates		10968
Iron Ore (lumps)	Rs./t	
Below 55% Fe		1202
55% to below 58% Fe		2865
58% to below 60% Fe		3043
60% to below 62% Fe		3085
62% to below 65% Fe		3595
65% Fe and above		4001
Iron Ore (fines)	Rs./t	
Below 55% Fe		924
55% to below 58% Fe		924
58% to below 60% Fe		1352
60% to below 62% Fe		1352
62% to below 65% Fe		1828
65% Fe and above		2150
Iron Ore Conc.	Rs./t	1400
Manganese Ore	Rs./t	
Dioxide ore		21959
Below 25% Mn		3778
25% to below 35% Mn		6669
35% to below 46% Mn		11888
46% Mn and above		16697
Corundum (ruby)	Rs./kg	NA
Garnet (abrasive)	Rs./t	NA
Sillimanite	Rs./t	7075
Rajasthan		
Iron Ore (lumps)	Rs./t	
Below 55% Fe		370
55% to below 58% Fe		NA
Manganese Ore	Rs./t	
25% to below 35% Mn		3000
Phosphorite	Rs./t	
Below 25% P2O5		277
25% to below 30% P2O5		NA
30% P2O5 and above		6546
Fluorite (graded)	Rs./t	
Below 30% CaF2		NA
30% to below 70% CaF2		NA
70% to below 85% CaF2		NA
Garnet (abrasive)	Rs./t	1725
Garnet (gem)	Rs./kg	NA
Selenite	Rs./t	2205
Wollastonite	Rs./t	875
Tamil Nadu		
Garnet (abrasive)	Rs./t	7647
Magnesite	Rs./t	3327
Vermiculite	Rs./t	2242
Telangana		
Manganese Ore	Rs./t	
Below 25% Mn		2868
Uttarakhand		
Magnesite	Rs./t	NA
West Bengal		
Apatite	Rs./t	NA
Moulding Sand	Rs./t	NA

NA : Not Available lme: London Metal Exchange t : Tonne mt : Metric Tonne
(U) : Under Reference lbm: London Bullion Market c : Cents $: Dollar tr oz : Troy Ounce

* : Average Sale Price for March 2015, Source - MINERALS & METALS REVIEW, April 2015. Average of the daily prices have been taken for Gold & Silver.

CENTRAL INFORMATION COMMISSION

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F.No.CIC/AT/A/2009/000816	F.No.CIC/AT/A/2009/000817	F.No.CIC/AT/A/2009/000818
F.No.CIC/AT/A/2010/000003	F.No.CIC/AT/A/2010/000010	F.No.CIC/AT/A/2010/000029
F.No.CIC/AT/A/2010/000058	F.No.CIC/AT/A/2010/000059	F.No.CIC/AT/A/2010/000060
F.No.CIC/AT/A/2010/000078	F.No.CIC/AT/A/2010/000127	F.No.CIC/AT/A/2010/000169
F.No.CIC/AT/A/2010/000184		Total : 13 Appeals

Dated, the 07th June, 2010

Appellants : **Dr.D. Dhaya Devadas** (Appeal No.816-818, 3, 10, 29, 58-60 & 127)
Shri Milind B. Nijsure (Appeal No.78/10)
Shri Ashok G. Naik (Appeal No.169/10)
Shri R.Y. Kutumbe (Appeal No.184/10)

Respondents : **Indian Bureau of Mines (IBM)**

These 13 second-appeals have been clubbed for disposal by Commission due to the fact that the matter for decision in all these cases is the disclosure-liability of Mining Plans.

2. Matter was heard on 24.05.2010 pursuant to Commission's notice dated 26.04.2010.

Presence:

Appellants:

(i) Dr.D. Dhaya Devadas : Through rep., Shri Sudalayandi
(ii) Shri Milind B. Nijsure : Present in person
(iii) Shri Ashok G. Naik : Through rep., Shri Bhobe
(iv) Shri R.Y. Kutumbe : Absent

Respondents:

(i) Shri Anil Subramaniam, Under Secretary, Ministry of Mines.
(ii) Shri R.K. Sinha, COM, Indian Bureau of Mines, Bangalore.
(iii) Shri Tuhin Ray, CPIO, Indian Bureau of Mines, Chennai.
(iv) Shri U.L. Gupta, CPIO, Indian Bureau of Mines, Nagpur.
(v) Shri S.K. Adhikari, CPIO, Indian Bureau of Mines, Goa.

3. Earlier, Commission, through its interim-order dated 04.02.2010, had observed as follows:-

"2. A question has arisen whether the information contained in a Mining Plan as submitted by a private party was liable to be disclosed,

especially in the face of the private party's plea that that would compromise his commercial confidence and the opposite side's plea that mining of mineral resources of the country could not be a matter exclusively between a commercial entity and the public authority. It was a matter of national resources and the citizens in general have had the right to know all about it.

3. Since the issue involved in these three appeals has larger ramifications, the views of the Ministry of Mines should be obtained about whether disclosure of the type of information requested by the appellant .... could be authorized."

4. Accordingly, assistance of the Ministry of Mines, Government of India was sought through Commission's references dated 05.02.2010 and 19.03.2010.

5. Accordingly, the Ministry of Mines, through a letter dated 22.03.2010 from Shri Anil Subramaniam, Under Secretary, have advised that except certain parts of the Mining Plan – which had elements whose disclosure would be prejudicial to commercial / competitive interest of a third-party (Mining Lease applicants) – the following parts of the Plan could be disclosed:-

"(i) 'General information', and 'Location and accessibility' in Chapter 1 & 2 in Introductory Notes of the Mining Plan.

(ii) 'Mine Drainage', 'Skating of Mineral rejects and Disposal of waste', 'Use of Mineral' and 'Other information' in Chapters 6, 7, 8 and 9 respectively of the Part 'A' of the Mining Plan.

(iii) 'Environmental Management Plan' in Chapter 11 of Part 'B' of the Mining Plan."

6. During the hearing on 24.05.2010, Sudalayandi, representing one of the appellants, Dr.D.Dhaya Devadas, agreed that disclosure of the Mining Plan could be authorized as per Ministry of Mines' advice. Shri Milind B. Nijsure (one of the appellants) insisted that the Mining Plan be made public *in-toto* in public interest.

7. On considering all aspects of the case, I consider it appropriate that disclosure of the Mining Plans – as requested in the 13 RTI-applications corresponding to these second-appeals – be authorized

on the lines advised by the Ministry of Mines. It is observed that Ministry has advised exclusion of only those portions of the Mining Plans which included details specific to a lessee – mobilization of resources, technology employed and so on. While these being specific to the lessee seem obvious, it is not yet clear as to how public interest would be served by its disclosure. It seems fairly apparent that the interests of the lessees – and their competitive position vis-à-vis other competitors – could be seriously jeopardized on account of such disclosures. Thus, the classification of disclosable and non-disclosable information in the Mining Plans as suggested by the Ministry of Mines seems rational and practical. These (non-disclosable parts) are covered by provisions of Sections 11(1), 8(1)(d) and 8(1)(j) of the RTI Act.

8. It is, therefore, directed that the parts (as paraphrased at paragraph 5 above) in the Mining Plans be disclosed to the appellants in these 13 second-appeals as per their requests in the corresponding RTI-applications.

9. It is also noted that the appellant, Dr.D.Dhaya Devadas, through his RTI-applications dated 03.02.2009, (in Appeal No.CIC/AT/A/2010/000059), dated 11.06.2009 (in Appeal No.CIC/AT/ A/2010/000817) and dated 01.06.2009 (in Appeal No.CIC/AT/A/2010/000818) has also requested information relating to illegal mining and the report of the Deputy Controller of Mines, Chennai Region submitted to Indian Bureau of Mines. These items of information were already disclosed to the appellant through Commission's decision in *Appeal No.F.No.CIC/AT/A/2010/000138; Date of Decision: 10.05.2010.* As such, there shall be no further disclosure obligation as regards these.

10. The Ministry of Mines is advised – under Section 25(5) of the RTI Act – to have all public authorities under it put-up the above (disclosable) parts of the Mining Plans on their respective websites to obviate repeated RTI-queries in the matter. Time for action – 2 months.

11. Appeals disposed of with the above directions.

12. Copy of this direction be sent to the parties.

(A.N. TIWARI)
INFORMATION COMMISSIONER

Authenticated by

(D.C. Singh)
Deputy Registrar

Copy forwarded to:

1. Shri Tuhin Ray, Dy. Controller & CPIO, Indian Bureau of Mines, C-4A, Rajaji Bhavan, Besant Nagar, **CHENNAI** – 600 090.	**7. Dr. D. Dhaya Devadas,** President, Federation of India Placer, Mineral Industries, 1S, Prasad Street, Seethapathy Nagar, Velachery, **CHENNAI** – 600 042 - *Appellant*
2. Shri A.K. Ghoshal, Jr. Mining Geologist & CPIO Regional Office, Indian Bureau of Mines 6th Floor, A- Block, Indira Bhawan, Civil Lines, **NAGPUR – 440 102.**	**8. Shri Milind B. Nijsure** A/P: Velas, Tal: Mandangad, Distt.- **Ratnagiri** (Maharashtra) - *Appellant*
3. Controller of Mines (SZ) & AA, Indian Bureau of Mines No. 29, Industrial Suburb, Goraguntepalya, Tumkur Road, **BANGALORE.**	**9. Shri Ashok G. Naik.** Advocate & Notary, 50, 1st Floor, Apna Bazar Building, **Vasco-da-Gama, GOA.** - *Appellant*
4. Shri S.K. Adhikari, JMG & CPIO, O/o Regional Controller of Mines, Indian Bureau of Mines, Opp. R.T.O's Office, P.O. – Fatorda **MARGAO –GOA** - 403 602.	**10. Shri R.Y. Kutumbe** 62, East High Court Road, New Ramdashpeth,, **NAGPUR** - 10 (Maharashtra). - *Appellant*
5. Shri Ranjan Sahai, Controller of Mines (CZ) & AA, Indian Bureau of Mines 6th Floor, A- Block, Indira Bhawan, Civil Lines, **NAGPUR – 440 102.**	**11. M/s. Ashapura Minochem Ltd.,** Near Madarsa Aarchi , Taluka – Sriburdhan, Distt. Raigarh 402 110 (Maharashtra) - *Representatives of 3rd Parties*
6. The Secretaty, Ministry of Mines, Room No. 320, 3rd Floor, A- Wing, Shastri Bhavan, **New Delhi** – 110 001 - *For Compliance of Para –10.*	**12. M/s V. V. Minerals,** **C/o R. Anand Padmanabhan,** Advocate, D-23, Navkunj Apartments, Plot No. 87, Patparganj, **DELHI** – 110 092 - *3rd Party*
	13. M/s Salitho Ores Pvt. Ltd., Salgaocar Chambers, P.O.Box No. 114 Margao –**GOA** – 403 601. - *3rd Party*

IBM RFD Targets vs Achievements for the year 2014-15

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Success indicator	Unit	Weight	Target/criteria Value					Achievement (%)	Status as on 31.03.2015
				Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%		
1) Inspection of Mines	Completion of 2500 inspections	Number	15.00	2500	2250	2000	1750	1500	**97%**	2427 MCDR/ MP/ MS inspections carried out up to the month of March 2015
2) Preparation of Mineral Maps with Forest Overlays	Completion of 100 Mineral Maps	Number	5.00	100	90	80	70	60	**100%**	100 multi mineral maps forest overlays have been updated in respect of AP (84), Bihar (5) and Kerala (11).
3) Development of Project on computerized on-line register of mining tenement system	Selection of System Integrator and issue of Work Order for MTS	Date	10.00	31/01/2015	28/02/2015	10/03/2015	15/03/2015	31/03/2015	---	RFP for selection of an implementing agency of Mining Tenement System has been issued by IBM in leading newspapers, IBM website and on the website of Central Public Procurement Portal. The last date for receipt of e-bids was 13 November, 2014. As only single party has responded for the above bid, according to Rule 169 of GFR, 2005 the EMD as received from M/S Wipro ltd has not been opened as well as soft copy of the bid in CPP portal. TEC meeting was held on 22.12.2014. RFP has been modified and sent to Ministry for approval. Subsequently, Ministry vide letter dated 15.01.2015 advised to make requisite changes in RFP in line with MMDR Amendments Ordinance 2015 and possibility to shift over to NIC cloud technology. The same is under progress.
4) Ore Dressing Investigations	Completion of 60 OD investigations	Number	5.00	60	54	48	42	36	**97%**	58 (Fifty Eight) OD investigations completed.

6) Indian Minerals Year Book	Publication of IMYB 2013 with 80 reviews	Number	3.00	80	72	64	56	48	**90%**	Preparation 80 reviews and technical editing of 79 reviews completed.
	Preparation of 50 tables for IMYB 2014	Number	3.00	50	45	40	35	30	--	Analysis of the data received through questionnaire and form "O" is in progress.
	Publishing of National Mineral Inventory at a glance	Date	4.00	31/12/2014	31/01/2015	28/02/2015	15/03/2015	31/03/2015	**90%**	Updation and preparation of NMI at a Glance as on 1.4.2013 completed for 22 minerals provisionally.
6) Compilation of Monthly Statistics on Mineral Production (MSMP)	Publication of 12 issues of MSMP	No.	6.00	12	11	10	9	8	**100%**	12 issues, from October'13 to September'14, were released.
7)Technical Consultancy and Mining Research Studies	Completion of 04 TC and MR Studies	Number	6.00	04	03	02	01	--	**100%**	01 MR assignment & 3 survey assignments are completed. 04 RMDS reports are in preparation.
8) Internal audit for MCDR Inspections	5% of 2500 Inspections	No.	5.00	125	113	100	88	75	**100%**	127 internal audits have been carried out by South Zone (46), NZ (35) and CZ (46).
9) Scrutiny and Processing of Statutory returns	Scrutiny of 25000 statutory returns	No.	5.00	25000	22500	20000	17500	15000	**100 %**	So far, 39569 monthly returns and 2713 annual returns have been scrutinized.
10)Human Resource Development & Capacity building for Central & State Government and other stakeholders	Number of training programmes organized by IBM	No.	10.00	16	14	12	10	8	**100%**	16 training courses have been conducted so far.
11)Facilitating techno-economic and scientific development in the mineral sector	Sub Sectors Development Plans for rock phosphate, aluminum and lead & zinc	No.	5.00	3	2	1	0	0	**100%**	Draft report of **Lead & Zinc** submitted to Ministry on 02.03.2015. **Rock phosphate**: Draft report approved by CG I/c and being sent to Ministry. **Aluminium**: Draft report submitted to CG I/c on 31.03.2015.
	Non-legislative items in NMP 2008	No.	5.00	5	4	3	2	1	**90%**	Items 6, 7, 8, 23 and 24 are implemented and ongoing activities. 4 and 11 are under implementation at various stages.

Objective	Success indicator	Unit	Weight	Target/criteria Value					Achievement (%)	Status as on 31.03.2015
				Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%		
Efficient Functioning of the RFD System										
Timely submission of Draft RFD (2014-15) for approval		Date	2.00	15/05/14	16/05/2014	19/05/2014	20/05/2014	21/05/2014	**100%**	Final RFD submitted to RFMS site on 14.05.2014.
Timely submission of Results for RFD (2013-14)		Date	1.00	01/05/14	02/05/2014	05/05/2014	06/05/2014	07/05/2014	**100%**	Approved achievements submitted to Ministry on 29.04.2014
Administrative Reforms										
Update organizational strategy to align with revised priorities.		Date	2.00	01/11/14	02/11/2014	03/11/2014	04/11/2014	05/11/2014		
Implementation of agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC)		%	1.00	100	90	80	70	60		
Implementation of agreed milestones for ISO 9001		%	2.00	100	95	90	85	80		
Implementation of milestones of approved innovation action plans		%	2.00	100	90	80	70	60		
Enhanced transparency/ improved service delivery of Ministry/ Department										
Rating from Independent Audit of Implementation of Citizen's Charter		%	2.00	100	95	90	85	80		
Independent Audit of implementation of public grievance Redressal management system		%	1.00	100	95	90	85	80		

Annexure- XVIII

State Wise Plans/ Schemes Approved By IBM in Year 2014-15

Sl. No.	State	Mining Plan		Scheme Of Mining		Final Mine Closure Plan	
		Approved	Not Approved	Approved	Not Approved	Approved	Not Approved
1	Assam	1	0	0	0	0	0
2	AP	14	4	35	37	0	1
3	Jharkhand	1	3	4	6	2	3
4	Bihar	0	1	0	1	1	1
5	Chhatisgarh	1	1	17	8	0	0
6	Delhi	0	0	0	0	0	0
7	Goa	0	1	0	1	1	1
8	Gujrat	5	1	42	10	0	0
9	Himachal	3	1	0	0	1	0
10	Haryana	0	0	0	0	0	0
11	J & K	0	0	1	0	0	0
12	Karnataka	13	2	34	6	3	1
13	Kerala	0	1	3	3	0	0
14	MP	43	7	133	17	3	0
15	Maharashtra	1	1	13	2	0	0
16	Meghalaya	0	0	0	1	0	0
17	Orissa	10	5	17	10	6	4
18	Rajasthan	144	49	63	39	2	1
19	Sikkim	0	0	0	0	0	0
20	Tamilnadu	10	22	115	20	1	0
21	Telangana	4	2	2	3	0	0
22	UP	3	1	4	0	0	0
23	Uttaranchal	2	0	1	0	0	0
24	W.B.	0	0	1	5	0	0
	Total	**255**	**102**	**485**	**169**	**20**	**12**

Jurisdiction of Zonal/Regional Offices

North Zone

Ajmer Regional Office

STATE : RAJASTHAN (27)
Districts : Ajmer, Alwar, Baran, Barmer , Bharatpur, Bhilwara, Bikaner, Bundi, Churu, Dausa, Dholpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar, Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Sawai Madhopur, Sikar, Sirohi , Tonk.

Dehradun Regional Office

STATE : DELHI (1)
Districts : Delhi
UNION TERRITORY: Chandigargh
STATE : HARYANA (21)
Districts : Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendargarh, Mewat, Palwal, Panchkula, Panipat, Rewari, Rohtak, Sirsa, Sonepat, Yamuna Nagar.
STATE : HIMACHAL PRADESH (12)
Districts : Bilaspur, Chamba, Hamirpur, Kangra, Kinnaur, Kulu, Lahul & Spiti, Mandi, Shimla, Sirmaur, Solan, Una.
STATE : JAMMU & KASHMIR (22)
Districts : Anantnag, Bandipore, Baramula, Badgam, Doda, Ganderbal, Jammu, Kargil, Kathua, Kishtwar, Kulgam, Kupwara, Ladakh, Poonch, Pulwama, Rajauri, Ramban, Reasi, Samba Srinagar, , Shupiyan, Udhampur.
STATE : PUNJAB (22)
Districts : Amritsar, Barnala, Bhatinda, Faridkot, Fatehgarh Sahib, Fazilka Ferozpur, Gurdaspur, Hoshiarpur, Jallandur, Kapurthala, Ludhiana, Mansa, Moga, Muktsar, Nawan Shehar, Pathankot Patiala, Rup Nagar, Sangrur, Sahibzada Ajit Singh Nagar (Mohali), Taran.

STATE : UTTAR PRADESH (65)
Districts : Agra, Aligarh, Ambedkar Nagar, Amroha, Auraiya, Azamgarh, Badaun, Baghpat, Bahraich, Ballia, Balrampur, Bara-Banki, Bareilly, Basti, Bijnor, Bulandshahr, Chandauli, Chitrakut, Deoria, Etah, Etawah, Faizabad, Farrukhabad, Fatehpur, Firozabad, Gautam Buddha Nagar, Ghaziabad, Gazipur, Gonda, Gorakhpur, Hapur, Hardoi, Hathras, Jalaun, Jaunpur, Kannauj, Kanpur Dehat, Kanpur Nagar, Kasganj, Kushinagar, Lakhimpur Kheri, Lucknow, Maharajganj, Mainpuri, Mathura, Mau, Meerut, Moradabad, Muzaffarnagar, Pilibhit, Pratapgarh, Raebareli, Rampur, Saharanpur, Sambhal, Sant Kabir Nagar, Sant Ravidas Nagar, Shahjahanpur, Shamli, Shravasti, Siddarth Nagar, Sitapur, Sultanpur, Unnao, Varanasi.
STATE : UTTARAKHAND (13)
Districts : Almoda, Bageshwar, Chamoli, Champawat, Dehradun, Haridwar, Nainital, Pauri Garhwal, Pithoragarh, Rudraprayag, Tehri Garhwal, Udhamsing Nagar, Uttar Kashi.

Udaipur Regional Office

UNION TERRITORY: DADRA & NAGAR HAVELI
UNION TERRITORY: DAMAN & DIU
STATE : GUJARAT (33)
Districts : Ahmedabad, Amreli, Anand, Aravalli, Banaskantha, Bharuch, Bhavnagar, Botad, Dahod, Dang, Devbhoomi Dwarka, Gandhinagar, Gir Somnath, Jamnagar, Junagarh, Kheda, Kuchch, Mahisagar, Mehesana, Morbi, Narmada, Navasari, Panchmahals, Patan, Porbandar, Rajkot, Sabarkantha, Surat, Surendranagar, Vadodara, Valsad, Tapi.

STATE : RAJASTHAN (6)
DISTRICTS : Banswara, Chittorgarh, Dungarpur, Pratapgarh, Rajsamand, Udaipur.

South Zone

Hyderabad Regional Office (Including Nellore Sub-Regional Office)

STATE : ANDHRA PRADESH (13)
Anantapur, Chittoor, Cuddapah, Godavari East, Godavari West, Guntur, Krishna, Kurnool, Nellore, Prakasam (Ongole H.Q.), Srikakulam, Visakhapatnam, Vizianagaram,
STATE : TELANGANA (10)
Districts : Adilabad, Hyderabad, Karimnagar, Khammam, Mahaboobnagar, Medak, Nalgonda, Nizamabad, Rangareddy, Warangal.
STATE : MAHARASHTRA (3)
Districts : Latur, Nanded, Osmanabad.

Goa Regional Office

STATE : GOA (2)
Districts : North Goa, South Goa .
STATE : MAHARASHTRA (7)
Districts : Kolhapur, Pune, Ratnagiri, Sangli, Satara, Sholapur, Sindhudurg.
STATE : KARNATAKA (7)
Districts : Bagalkot, Belgaum, Bijapur, Dharwar, Gadag, Haveri, Uttar Kanada.

Bangalore Regional Office

STATE : KARNATAKA (23)
Districts : Bangalore, Bangalore Rural, Bellary, Bidar, Chamarajanagar, Chikkaballapura, Chikmagalur, Chitradurga, Davangere, Gulbarga, Hassan, Kodagu, Kolar, Koppal, Mandya, Mysore, Raichur, Ramanagara, Shimoga, South Kanara, Tumkur, Udupi, Yadgir.

STATE :KERALA (14)
Districts : Alappuzha (Alleppy), Ernakulam, Idukki (Iddiki), Kannur, Kasargod, Kollam, Kottayam, Kozhikode, Malappuram, Palakkad, Pathanamthitta, Thiruvananthapuram, Trissur, Wynad.
UNION TERRITORY: LAKSHADWEEP

Chennai Regional Office

STATE : TAMIL NADU (32)
Districts : Ariyalur, Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Kanchipuram, Kanyakumari, Karur, Krishnagiri, Madurai, Nagapattinam, Namakkal, Niligiris, Perambaloor, Pudukkottai , Ramnathapuram , Salem, Sivaganga, Thanjavur ,Theni (Madurai), Thiruvallur (Chengalpattu), Thiruvannamalai, Thiruvarur, (Nagapattinam) , Trichirapalli , Tirunelveli, Tiruppur, Turicorin, Vellore, Villupuram, Virudhunagar.

STATE : PONDICHERRY (4)
Districts : Karaikal , Mahe, Pondicherry, Yanam.

Central Zone

Bhubaneswar Regional Office

STATE : ODISHA (30)
Districts : Angul ,Balasore, Bargarh, Bhadrak, Bolangir, Boudh, Cuttack, Deogarh, Dhenkanal, Gajapati, Ganjam, Jagatsingpur, Jajpur, Jharsuguda, Kalahandi, Kandhamal, Kendrapara, Keonjhar, Khurda, Koraput, Malkanagiri, Mayurbhanj, Nabrangpur, Nayagarh, Nuapada, Puri, Raygada, Sambalpur, Sonpur, Sundargarh.

Jabalpur Regional Office

STATE : MADHYA PRADESH (25)
Districts : Ashoknagar, Anuppur, Bhind, Chhatarpur, Damoh, Datia, Dindori, Guna,

Gwalior, Jabalpur, Katni, Mandla, Morena, Narasinhapur, Panna, Rewa, Sagar, Satna, Shahdol, Shivpuri, Shyopur, Sidhi, Singrauli, Tikamgarh, Umaria.

STATE : UTTAR PRADESH (10)
Districts : Allahabad, Banda, Chatrapati Shahuji Maharaj Nagar, Hamirpur, Jhansi, Kaushambi, Lalitpur, Mahoba, Mirzapur, Sonbhadra.

Ranchi Regional Office

STATE : BIHAR (38)
Districts : Araria, Arwal, Aurangabad, Banka, Begusarai, Bhagalpur, Bhojpur, Buxar, Darbhanga, East Champaran, Gaya, Gopalganj, Jahanabad, Jamui, Kaimur, Katihar, Khagaria ,Kishanganj, Lakhisarai, Madhepura, Madhubani, Munger, Muzaffarpur, Nalanda, Nawadha, Patna, Purnia, Rohtas, Saharsa, Samastipur, Saran, Sheikhpura, Sheohar, Sitamarhi, Siwan, Supaul ,Vaishali, West Champaran.
STATE : JHARKHAND (21)
Districts : Bokaro, Chatra, Deogarh, Dhanbad, Dumka, Garhwa, Giridih, Godda, Gumla, Hazaribagh, Jamtara, Khunti, Kodarma, Latehar, Lohardaga, Pakur, Palamau, Ramgarh, Ranchi, Sahebganj, Simdega.

Kolkata Regional Office

STATE : JHARKHAND (3)
Districts : Saraikela-Kharsawan, Singhbhum (East), Singhbhum (West).
STATE : SIKKIM (4)
Districts : Sikkim East, Sikkim West, Sikkim North, Sikkim South
STATE : WEST BENGAL (20)
Districts : 24- Parganas North , 24-Parganas South , Alipurduar, Bankura ,Birbhum, Bardhaman, Cooch Behar, Darjeeling , Dakshin Dinajpur , Uttar Dinajpur, Hooghly, Howrah, Jalpaiguri, Kolkata, Malda, Murshidabad, Nadia, Paschim Midnapore, Purba Medinipur, Purulia
UNION TERRITORY: Andaman Nicobar
Districts : Nicobar, North & Middle Andaman , South Andman.

GUWAHATI SUB-REGION
STATE : ARUNACHAL PRADESH (19)
Districts : Anjaw, Changlang, Dibang Valley, East Kameng, East Siang, Kra Daadi, Kurung Kumey, Lohit, Longding, Lower Dibang Valley, Lower Subansiri, Paum Pare, Tawang, Tirap, Upper Siang, Upper Subansiri, West Kameng, West Siang.

STATE : ASSAM (27)
Districts : Barpeta, Baksa, Bongaigaon, Cachar, Chirang, Darrang, Dhemaji ,Dhubri, Dibrugarh, Goalpara, Golaghat, Hailakandi, Jorhat, Kamrup, Metropolitan, Karbi Anglong, Karimganj, Kokrajhar, Lakhimpur, Morigaon, Nagaon, Nalbari, North Cachar Hills (Dima Hasao), Sibsagar, Sonitpur, Tinsukia, Udalguri.

STATE : MANIPUR (9)
Districts : Bishnupur, Chandel, Churachandpur, Imphal East, Imphal West, Senapati, Tamenglong, Thoubal, Ukhrul.
STATE : MEGHALAYA (11)
Districts : West Jaintia Hills (Jowai),East Jaintia Hills (Khliehriat),East Khasi Hills (Shillong),West Khasi Hills (Nongstoin),South West Khasi Hills (Mawkyrwat),Ri-Bhoi (Nongpoh),North Garo Hills (Resubelpara),East Garo Hills (Williamnagar), South Garo Hills (Baghmara), West Garo Hills (Tura),South West Garo Hills (Ampati),
STATE : MIZORAM (8)
Districts : Aizwal, Champhai, Kolasib, Lawngtlai, Lunglei, Mamit, Saiha, Serchhip.
STATE : NAGALAND (11)
Districts : Dimapur, Kiphire, Kohima,

Longleng, Mokokchung, Mon, Peren, Phek, Tuensang, Wokha, Zunheboto.

STATE : TRIPURA (8)
Districts : Dhalai, Sipahijala, Khowai, Gomati, Unakot, North Tripura, South Tripura, West Tripura

Nagpur Regional Office

STATE : CHHATTISGARH (27)
Districts : Balod, Baloda Bazar, Balrampur, Bastar, Bemetara, Bijapur, Bilaspur, Dantewada, Dhamtari, Durg, Gariyaband, Janjgir-Champa, Jashpur, Kanker, Kawardha, Kondagaon, Korba, Koriya, Mahasamund, Mungeli, Narayanpur, Raigarh, Raipur, Rajnandgaon, Sukma, Surajpur, Surguja.

STATE : MADHYA PRADESH (26)
Districts : Agar Malwa, Alirajpur, Badwani, Balaghat, Betul, Bhopal, Burhanpur, Chhindwara, Dewas, Dhar, Harda, Hoshangabad, Indore, Jhabua, East Nimar (Khandwa), West Nimar (Khargaon), Mandsaur, Neemuch, Raisen, Rajgarh ,Ratlam, Sehore, Seoni, Shajapur, Ujjain, Vidisha.

STATE : MAHARASHTRA (26)
Districts : Ahmednagar, Akola, Amravati, Aurangabad, Bhandara, Beed, Buldhana, Chandrapur, Dhule, Gadchiroli, Gondia, Greater Mumbai, Hingoli, Jalgaon, Jalna, Mumbai (Suburban), Nagpur, Nandurbar, Nashik, Palghar, Parbhani, Raigad, Thane, Wardha, Washim, Yavatmal

Annexure - XX

Contact Details of Divisional / Zonal / Regional Offices of Indian Bureau of Mines

1. Divisional Offices

Name of the Division / Office	Designation of the Divisional Head & Postal Address	Telephone No.	Fax No.	E-Mail
Mineral Development & Regulation Division	**Chief Controller of Mines** 2 nd Floor, Block 'A', Indira Bhavan, Civil Lines, Nagpur-440001	91-712-2560961	91-712-2565488	ccom@ibm.gov.in
Mineral Processing Division	**Director (Ore Dressing)** 2 nd Floor, Block 'B', Indira Bhavan, Civil Lines, Nagpur-440001	91-712 - 2565024	91-712-2562631	codo@ibm.gov.in
Planning & Co-Ordination Division	**Controller of Mines (Planning & Co-ordination)** 2 nd Floor, Block 'D', Indira Bhavan, Civil Lines, Nagpur-440001	91-712-2561824	91-712-2561824	com.plcdn@ibm.gov.in
Technical Consultancy, Mining Research & Publication Division	**Controller of Mines (TMP)** 7 th Floor, Block 'D', Indira Bhavan, Civil Lines, Nagpur-440001	91-712 - 2562143	91-712 2561110	com.tc@ibm.gov.in com.mr@ibm.gov.in
Mineral Economics Division	**Chief Mineral Economist** 3 rd Floor, Block 'D', Indira Bhavan, Civil Lines, Nagpur-440001	91-712 - 2565471	91-712-2565471	cme@ibm.gov.in
Mining & Mineral Statistics Division	**Deputy Director General (Statistics) & In-charge MMS Division** 5 th Floor, Block 'D', Indira Bhavan, Civil Lines, Nagpur-440001	91-712-2564934	91-712-2564934	mms@ibm.gov.in

2. Other Important Offices

Name of the Division / Office	Postal Address	Telephone No.	Fax No.	E-Mail
Chief Mining Geologist	1 st Floor, Block 'D', Indira Bhavan, Civil Lines, Nagpur-440001	91-712 - 2561267	91-712 - 2561267	cmg@ibm.gov.in
Technical Secretary	2 nd Floor, Block 'D', Indira Bhavan, Civil Lines, Nagpur-440001	91-712- 2565136	91-712- 2561824	rcom.ts@ibm.gov.in
Director (Training)	8 th Floor, Block 'A', Indira Bhavan, Civil Lines, Nagpur-440001	91-712 - 2565867	91-712 - 2565867	dir.trg@ibm.gov.in
Chief Administrative Officer	4 th Floor, Block 'D', Indira Bhavan, Civil Lines, Nagpur-440001	91-712 - 2565333	91-712 - 2565333	ho-office@ibm.gov.in
Chief Editor Publication Section	1 st Floor, Block 'B', Indira Bhavan, Civil Lines, Nagpur-440001	91-712 - 2565500 Extn : 1105	91-712 - 2565471	ce.press@ibm.gov.in

3. Zonal Offices of MCCM Division

Name of the Zone	Postal Address	Telephone No.	Fax No.	E-Mail
Central	Controller of Mines (CZ) 6 th Floor, Block 'D', Indira Bhavan, Civil Lines, Nagpur-440001	0712 - 2565603	0712 - 2565603	com.cz@ibm.gov.in
South	Controller of Mines (SZ) 29, Industrial Suburb, IInd Stage, Tumkur Road, Yeshwantpuram, Bangalore-560022	080 - 23373287 080 - 23375366 / 080 - 23375367 (PBX)	080 - 23373287	zo.bangalore@ibm.gov.in
North	Controller of Mines (NZ) Type-IV, Block B/9, IBM Colony, Adarsh Nagar, Balupura Road, Ajmer-308 002	0145 - 2681831	0145 - 2441244 Ext. 28	zo.ajmer@ibm.gov.in

3. Regional Offices of MCCM Division

Name of the Region	Postal Address	Telephone No.	Fax No.	E-Mail
Ajmer	Regional Controller of Mines Makhupura Industrial Estate, Nasirabad Road, Ajmer - 305002.	91-0145 - 2695150	0145 - 2695202	ro.ajmer@ibm.gov.in
Bangalore	Regional Controller of Mines Industrial Suburb, II Stage, Tumkur Road, Yeshwantpur, Bangalore - 560 022.	91-080 - 23371027	080 - 23373287	ro.bangalore@ibm.gov.in
Bhubaneswar	Regional Controller of Mines Mahanee Complex, 308, District Center, Chandrasekharpur, Bhubaneswar - 751016	91-0674-2744430	0674-2744430	ro.bhubaneshwar@ibm.gov.in
Chennai	Regional Controller of Mines Rajaji Bhavan, C-4 A, C.G.O. Complex, Besant Nagar, Chennai- 600 090	91-044 - 24911570 91-044 - 24914461	044 - 24911295	ro.chennai@ibm.gov.in
Dehradun	Regional Controller of Mines 100, Old Nehru Colony, Dehradun -248 001	91-0135 - 2671896 91-0135 - 2676350 91-0135 - 2672610	0135 - 2674962	ro.dehradun@ibm.gov.in
Goa	Regional Controller of Mines IBM Colony, New National Highway , Near Arlem Breweries, P.O. Fatorda, Margao- 403602	91-0832 - 2741757 91-0834 - 2741758	0832 - 2741758	ro.goa@ibm.gov.in
Hyderabad	Regional Controller of Mines Indian Bureau of Mines, Room No. 603, 6th Floor, CGO Towers, Kavadiguda, Secunderabad - 500 080	91-040 - 27539992 91-040 - 27539993	91-040 - 27539991	ro.hyderabad@ibm.gov.in
Jabalpur	Regional Controller of Mines Scheme No. 11, IBM Colony, Kamla Nehru Nagar, Jabalpur – 482 002	91-0761 - 2416780 91-0761 - 2416231 91-0761 - 2416589	0761 - 2416780	ro.jabalpur@ibm.gov.in

Kolkata	Regional Controller of Mines CP-13, Sector V, Salt Lake City , Kolkatta- 700 091	91-033 - 23673986	91-033 - 23673617	ro.kolkata@ibm.gov.in
Nagpur	Regional Controller of Mines 6 th Floor, Block 'B&C', Indira Bhavan, Civil Lines, Nagpur-440 001	91-712-2565089	91-712-2565089	rcom.nr@ibm.gov.in
Ranchi	Regional Controller of Mines 318/B, Ashok Nagar, Road No. 3, Ranchi - 834 002	91-0651 - 2242903 91-0651 - 2242889	0651 - 2242903	ro.ranchi@ibm.gov.in
Udaipur	Regional Controller of Mines 142-C, Sector - XI, Hiran Magri Scheme, Udaipur - 313 001	91-0294 - 2583230 91-0294 - 2583139.	0294 - 2583139	ro.udaipur@ibm.gov.in

4. Sub-Regional Offices of MCCM Division

Name of the Sub-Region	**Postal Address**	**Telephone No.**	**Fax No.**	**E-Mail**
GUWAHATI (Under Kolkata Region)	Officer in Charge House No. 203, Dee Cee Villa, First Floor, Rajgarh Road, Ulubari , Guwahati - 781 007	0361 - 2466184	0361 - 2466184	sro.guwahati@ibm.gov.in
NELLORE (Under Hyderabad Region)	Officer in Charge D.No.26 - II – 830, Flat No. 86, 8th Cross Road, Jyothi Nagar, Vedayapalem, P.O. A.K.Nagar, Nellore-524 004	0861 - 2327294	0861 - 2327294	sro.nellore@ibm.gov.in

5. Mineral Processing Laboratories and Pilot Plants

Location of the Pilot Plant / Regional Ore Dressing Laboratory	Postal Address	Telephone No.	Fax No.	E-Mail
Nagpur Modern Mineral Processing Laboratory and Pilot Plant	Chief Ore Dressing Officer L-8, MIDC, Hingna Road, Nagpur -440 016	07104-236645 / 235541 / 235543 / 235545	07104-235542	indian75@bsnl.in ibmhngn@bsnl.in
Ajmer Regional Ore Dressing Laboratory and Pilot Plant	Suptdg. Officer (Ore Dressing) Makhupura Industrial Estate, Nasirabad Road, Ajmer - 305002	0145 - 2695163 2695150	0145 - 2695163	rmpl.ajmer@ibm.gov.in ibm_rodl_ajm@yahoo.co.in
Bangalore Regional Ore Dressing Laboratory and Pilot Plant	Suptdg. Officer (Ore Dressing) & Officer in Charge Industrial Suburb, II Stage, Tumkur Road, Gurguntaplayam, Bangalore - 560 022.	080 - 23379824 23375362 23375364	080 - 23375360	rodlbng@vsnl.net

6. Liaison Office

Location of the Liaison Office	Designation of the Officer-in-charge Postal Address	Telephone No.	Fax No.	E-Mail
NEW DELHI	Administrative Officer, Indian Bureau Of Mines 5th Floor,11th Block , CGO Complex , New Delhi-110 003.	011 - 24363199	-	nagarajan.25@nic.in
	Mines - III, Ministry of Mines, Shastry Bhavan, New Delhi - 110 115	011 - 23383085	011 - 23383085	nagarajan.25@nic.in

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e[;ky;] ukxij l ikIr fun'kkulkj Hkkjrh; [kku C;jk] vtej }kjk mRrjkpy dk;ky;] {k=h; dk;ky; ,o {k=h; v;Ld ilk/ku i;kx'kkyk e l;Dr :i l fnukd 1 ekp] 2015 dk euk;k x;kA [kfut fnol & 2015 dk lekjkg Hkkjrh; [kku C;jk] vtej d ek[kijk vk|kfxd {k= e[; dk;ky; d lHkk d{k e ikr% 11-00 ct ikjHk gvkA lekjkg dh v/;{krk Jh idt dyJ"B] {k=h; [kku fu;=d ,o dk;ky; v/;{k] Hkkjrh; [kku C;jk] vtej }kjk dh xbA lekjkg e Jh Hkoj yky] Hkkjrh; [kku C;jk l lokfuoRr ofj"Bre depkjh] e[; vfrfFk d :i e mifLFkr FkA loiFke lekjkg d v/;{k ,o e[; vfrfFk dk i"i xPN inku dj Lokxr fd;k x;kA

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bl volj ij Hkkjrh; [kku C;jk l lokfuoRr g, vf/kdkfj;k ,o depkfj;k dk Hkh vkef=r fd;k x;k FkkA Hkkjrh; [kku C;jk l lokfuoRr g, mifLFkr vf/kdkfj;k ,o depkfj;k ,o [kfut

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Observance of IBM Foundation Day" as "Khanij Divas" at Ranchi Regional Office, Ranchi

On the eve of IBM Foundation Day" as "Khanij Divas" on 01/03/2015, the office premises was decorated with beautiful flowers and colourful balloons. A flower "Rangoli" was also decorated at the entrance of the office premises. The dignitaries were invited from various organizations to grace the occasion.

(i) Shri S.P.Singh, Ex Vice Chancellor, B.B.University.
(ii) Shri Sona Ram Kisku, DDG, GSI
(iii) Shri B.Reddy, M/s GEOMAX
(iv) Shri B.K.Mahapatra, AGM(Geology), HINDALCO

(v) Shri Umesh Singh, Agent of Mines, M/s JSMDC
(vi) Shri P.K.Sen, RQP

The programme started at 10.30 A.M. by lighting of lamp by all the dignitaries followed by inauguration of the programme & half day workshop. In the inaugural session, Shri B.K.Singh, AMG welcomed the guests. Opening remarks on Indian Bureau of Mines and its function was delivered by Shri G.C.Sethi, DCOM.

In the technical session presentation was made by the following presenters: -

i. Shri N.K.Chaterji, AMG gave a presentation on the revised charter function of IBM.

ii. Md. Kasim, JTA(Survey), IBM, Ranchi gave a presentation on the activity of IBM.

iii. Shri S.P.Singh, Ex Vice Chancellor, B.B.University& the Chief Guest gave a presentation on Systematic development of mines and minerals and environment. Followed by the presentation he delivered a brief speech on function of IBM.

S/Shri Sona Ram Kusku, DDG, GSI & special guest and B.K.Mahapatra, AGM(Geology), HINDALCO delivered brief speeches on the occasion.

In Valedictory session mementos were presented to the dignitaries & paper presenter. Vote of thanks was extended by Shri R.Singh, AMG, IBM, Ranchi. and the programme was conducted by Shri Bikram Kumar Singh, Draftsman.

After the technical session, "High Tea" was organized in the office premises. All officers and staff of Ranchi Regional Office participated wholeheartedly in this celebration. The programme was very knowledgeable, entertaining and encouraging for one and all.

Decoration of office premises with beautiful flowers and colourful balloons

Lighting of Traditional Lamp

Inauguration of workshop

Dignitaries on the dias

Floral Welome

Technical Session

Address by Chief Guest

Presentation of memento

Presentation of memento

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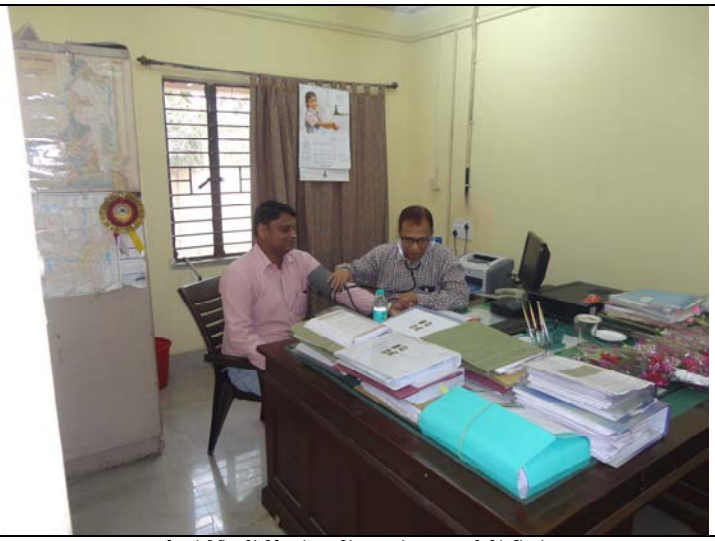

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1. IBM HQ, INDIRA BHAVAN, Nagpur:

"Swatchh Bharat Abhiyan" was undertaken in the Head Quarter building daily during the forenoon in the last week of October, 2014 for floor-wise cleaning. In addition to regular cleaning, a few critical areas such as waste disposal duct, air cooling blower rooms were identified and cleaned thoroughly. Staircase and corridor were cleaned thoroughly and cobwebs were removed. All waste dispersed off in Bins.

<table>
<tr>
<td> 
Clean premises of IBM HQ Campus after Swatchha Bharat Abhiyan</td>
<td> 
Cleaning of backside of HQ Building</td>
</tr>
<tr>
<td> 
Cleaning of Mineral Map Cell 1st Floor IBM HQ</td>
<td> 
Cleaning of Training Centre</td>
</tr>
</table>

1.A Modern Mineral Processing Laboratory and Pilot Plant, Nagpur:

In Modern Mineral Processing Laboratory and Pilot Plant, Nagpur various machines and gadgets were cleaned. The entire floor area was cleaned and made free from dust and waste sample particles. Now the ambience of the Pilot Plant is fine and encourages effective working. The Blending unit of the Pilot Plant was spruced and various machines like

ball mill, gravity separator etc were neatly wiped with wet and dry cloths. The floor area, Toilets and wash areas were also cleaned. The efforts made in this regard are depicted in the enclosed photographs.

	
Removal of waste material	**Wiping of machines with wet & Dry cloths**

2. Zonal/ Regional Office and Regional Ore Dressing Lab Ajmer:

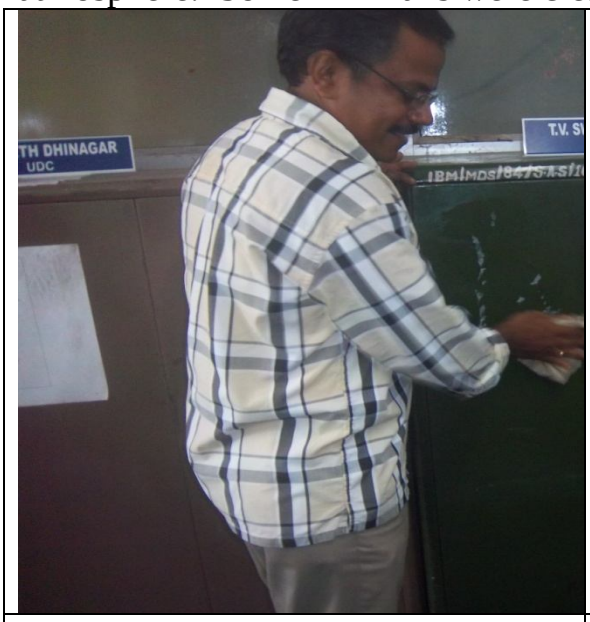
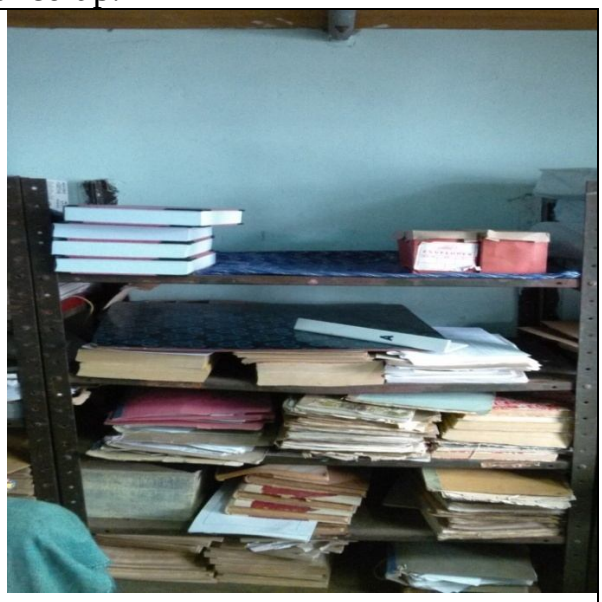
During the observance of the week, all the Employees of Ajmer office cleaned all files, documents, sitting place daily in the forenoon for maintaining cleanliness and tidiness in office premises. Obsolete and unserviceable items were scrutinized and directions were issued to write off from the records as per rules. The whole canteen area, store rooms, technical section room, Hindi Store Section rooms, library, canteen hall, main stairs, corridor portion etc. were cleaned up by the employees .
All the Officers and staff of RODL Ajmer contributed for cleaning of RODL premises, all machines and platforms.
Photographs of the cleanliness drive are given below.

	
Disposal of waste material	Cleaning of premises

	
Removing the bushes from Platform	Dusting and cleaning of RODL

3. Regional Office Chennai:

All officers and staff contributed for completing the cleaning, the records, documents, store items etc. All the files were properly arranged in their places, keeping the surroundings clean for a better work atmosphere. Some Almirahs were cleaned up.

	
Cleaning of Almiraha	Dusting and neatly keeping files

4. Regional Office Kolkata :

For this Abhiyan, daily one hour was devoted from 11 A.M. to 12 noon during the week 27/10/2014 to 31.10.2014. For effective outcome six teams comprising five members each were formed for proper housekeeping of six Work Zones. Each team have performed in best possible ways to keep their assigned Work Zone neat & clean. Dusting of file racks and cleaning of corridors and common places was carried out.

	
Neatly Keeping Documents	**Sorting out garbage.**
	
Maintaining of shelves.	**Cleaning of mineral samples**

5. Regional Office Ranchi:

An action plan was drawn regarding work related to Intensive Swachh Bharat Abhiyan w.e.f. 27.10.2014 to 31.10.2014. Accordingly, the office premises were cleaned by officers and staff of this office. Garbage collected was burnt outside the premises. Photographs taken during the campaign are given below:

Removal of garbage waste	Burning of garbage

6. Sub-Regional Office Guwahati:

A week under Swachh Bharat Abhiyan was observed from 27/10/2014 by the staff of Sub-Regional office, Guwahati of Indian Bureau of Mines. Cleaning of the **Office Store Room, Balcony, Dusting of Technical Files, Cleaning of Staircase & Gallery, Vehicle Parking Garage and Rearranging & Dusting of Technical and Administration Files** was completed in phased manner.

	
Cleaning of Balcony	Cleaning of Corridors
	
Cleaning of Parking area	Rearranging of Technical and Admin. files

7. Zonal/ Regional Office and RODL Bangalore:

In Bangalore Office a schedule of Swachh Bharat Abhiyan from 27.1.2014 to 31.10.14 has been chalked out as follows:

27.10.2014 : Shredding of Files
28.10.2014 : Shredding of files, cleaning of Terrace & Sample Room Cleaning
29.10.2014 : Shrubs Cleaning (Back side of Pilot Plant)
30.10.2014 : Volley Ball Court Cleaning
31.10.2014 : Transportation of waste generated

According to this Action Plan work was carried out by Officers and Staff of IBM, Bengaluru in full swing with weeding out of old records, disposal of waste, uprooting of weeds around office building, cleaning of terraces and other remaining areas in and around office building improving the overall ambience. Few Photographs of the same are appended with.

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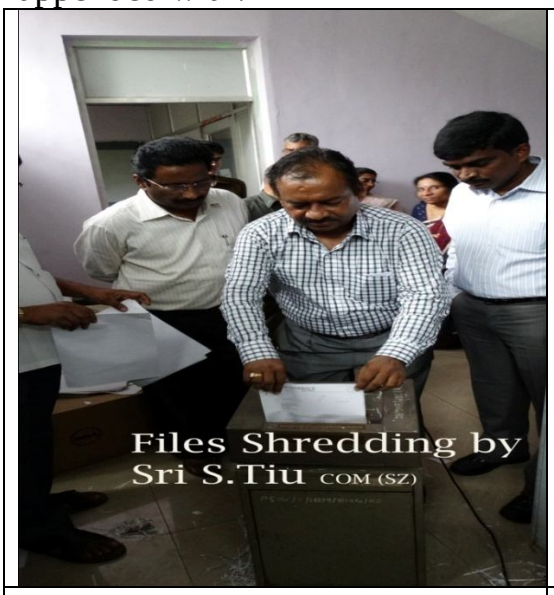
<tr><td> 
</td><td> 
</td></tr>
<tr><td>Shredding of old files</td><td>Collection of waste</td></tr>
<tr><td> 
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<tr><td>Removal of bushes and shrubs from Pilot Plant area</td><td>Cleaning of Parking space</td></tr>
</table>

8. **Regional Office Udaipur:**

In Udaipur Regional Office Ground Floor doors, windows, tables & chairs were cleaned. First Floor was cleaned, the floor of conference room was washed, table & chairs were cleaned and windows were cleaned. Drawing Section, Store Room were cleaned and broken flower pots were removed.

	
Removal of broken pots	Floor cleaning

9. **Regional Office Goa:**

In Goa Regional office it was decided to clean the main entrance of the office bldg. Therefore, in the 1st instance all the litters have been collected and the unwanted bushes have been removed. All the officers & staff members actively participated in the cleanliness of main entrance of the office. Old office record room situated at Ground Floor of the Office building, filled with old files pertaining to more than 10 years old was cleaned. Now this room is being used for keeping old and unserviceable store items (plastic and iron).

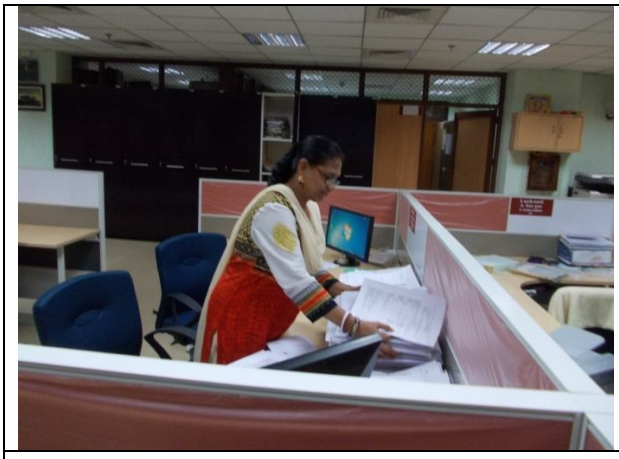
Lot of bushes, weed and grasses were grown up all along the compound wall of IBM Residential Colony. All the officers and staff members were involved in removing the grasses and bushes and the removed material and other waste material were collected in the bins and transported in the nearby dump yard and the area has been leveled up to the extent possible and cleaned up.

The photographs depicting the cleaning are given below:

	
Cleaning of entrance	Removal of bushes

10.**Regional Office Hyderabad :**

In Hyderabad Regional office the week long activities were undertaken with great zeal and enthusiasm. Floors, furniture, file racks, almirahs, computers, record and store items were cleaned thoroughly and the records, files, documents and store items etc. were arranged in neat and orderly manner.

	
Rearranging files	Rearranging files
	
Floor cleaning	Dust removal from walls

11.**Regional Office Jabalpur :**

In Jabalpur Regional Office various cleaning activities were conducted during the week with active participation of all the employees. In addition to routine cleaning, thorough cleaning of office building was taken up. Files, documents, records etc were cleaned by dusting off. Surroundings of office building were also cleaned.

	
Cleaning of premises	Collection of garbage