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## Indian Bureau of Mines NEWS

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# IBM News

Quarterly Newsletter of the Bureau

## PICTURE OF THE ISSUE



A team of girls presenting a skit on the theme, environment protection, during the concluding ceremony of MEMC Celebrations organised by the Goa Regional office.

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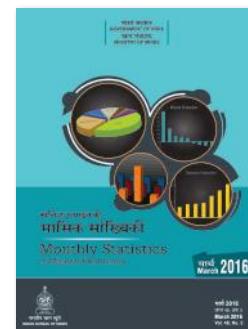
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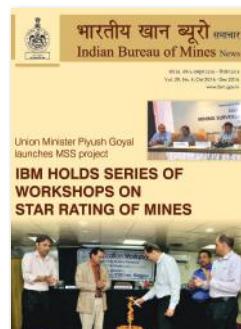
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## Publication Corner



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## FROM CONTROLLER GENERAL'S DESK



*Shri Ranjan Sahai*

I extend my warm greetings to Shri Arun Kumar on being appointed the Secretary (Mines). Shri Kumar brings vast administrative experience of more than 35 years to lead the Mines Ministry and the Mining Sector in the Country on a higher growth trajectory, through his broad outlook.

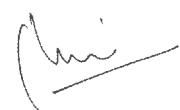
I take immense pride in bringing out 40<sup>th</sup> volume of IBM News, the quarterly newsletter of the Bureau issued from Controller General's office. The IBM News will complete 40 years this year. I congratulate the Publication Team for successfully bringing out the newsletter without a break since four decades and for making it more and more appealing through lucid content and appealing presentation. I believe the Bureau would continue to achieve new milestones and publicise the salient features of its multifarious activities and establish a regular communication with the stakeholders as envisioned by our former head Shri D.N. Bhargava while starting the IBM News. New technologies will be adopted to make the soft version more acceptable in the coming days.

In the last quarter, the Mines Ministry jointly with IBM rolled out ambitious plans which will bring a revolutionary transformation. The launch of TAMRA portal will ensure speedy auction and allocation of mining blocks, minimising the timeline for statutory clearances. The Mining Surveillance System App gives power to people to join hands with the Government in curbing illegal mining, while the keen eyes of Drones are ready to detect any violation on the mine site, a futuristic idea being

researched as a pilot project at Naomundi Iron Ore mine of Tata Steel.

The Mines Ministry's 2<sup>nd</sup> Conclave of Mines and Minerals held in New Delhi during February this year and the MEMC week celebrations of 2016-17 organised across Zonal and Regional offices of IBM has proved to be a benefactor in understanding of issues faced by the stakeholders. The Bureau which embarks on continuous evaluation of such interactions and responses would like to assure the mining community, future policy evolution will take care of their concerns. As part of the Star Rating of Mines, hitherto, IBM has awarded 51 mines with Five Star rating. IBM signed an MoU with TERI to draw an action plan to address the remediation of overburden and tailings at mined out areas as part of the Abandoned Mines Initiative (AMI) programme. The Team IBM is devising manuals/templates/formats as per the provisions of new MCDR, 2017, as well as deriving mechanism for establishing Lump Fine Ratio as per MCR, 2016. IBM celebrated its Foundation Day on March 1, organising a Blood Donation camp which elicited an enthusiastic response.

For now, IBM is focused on early start of the Mining Tenement System (MTS) which aims to make the mining sector fully automated – from exploration to mine closure; and use of MSS Apps and Drones for inspection and mine surveillance. The positivity in the air is palpable from the index of mineral production of mining and quarrying sector for March 2017 at 127.2, which is 9.7% higher as compared to same period last year. The cumulative growth for the last one year over the corresponding previous year is also higher by 5.3% driven by coal, natural gas, petroleum, chromite and iron ore.



**Ranjan Sahai**  
Controller General In-charge

## TRANSPARENCY AND ACCOUNTABILITY

# Piyush Goyal launches TAMRA Portal

Hon'ble Union Minister of State (Independent Charge) for Power, Coal, New & Renewable Energy and Mines Shri Piyush Goyal launched TAMRA (Transparency, Auction Monitoring and Resource Augmentation) Portal and Mobile Application on 15 February, 2017 at New Delhi. The initiative serves twin objectives – enhance transparency and accountability and double the mining contribution to GDP with ease-of-doing business in Mining Sector in the country.

The Ministry of Mines has developed the TAMRA Portal and Mobile App to speed up mining activity in India and facilitate all the stakeholders to track the status of Statutory Clearances associated with mining blocks. It will act as an interactive platform for all stakeholders to minimise the timeline for statutory and other clearances and speedy commence of production.

It covers block-wise, state-wise and mineral-wise information of the blocks to be auctioned, monitors various statutory

clearances and also highlights the additional resources generated through e-Auction. In case of delay in obtaining any clearances, TAMRA will send triggers to the concerned authority so that remedial steps may be taken immediately.

The Minister said the Government has prepared an ambitious plan to put 280 mines with mineral reserves worth Rs 10 lakh crore for bidding to increase the share of mining to the GDP. "In spirit of cooperation, the ambition to double the contribution of the mining sector to GDP is possible," he said. The launch saw Shri Piyush Goyal interact with Mines Ministers and senior officials of DGMs of 12 mineral-rich States which are part of TAMRA through video conference.

S/Shri Balvinder Kumar, then Secretary, Mines, R. Sridharan, then Special Secretary, Sudhaker Shukla, Economic Advisor, Ranjan Sahai, CG In-charge, IBM and other officials were present.



Shri Piyush Goyal, Union Minister of State (I/c) for Power, Coal, New & Renewable Energy and Mines inaugurating the TAMRA Portal on the sidelines of the 2<sup>nd</sup> Conclave of Mines & Minerals in New Delhi on 15 Feb, 2017. S/Shri Balvinder Kumar, then Secretary, Mines, R. Sridharan, Special Secretary, Mines, Sudhaker Shukla, Economic Advisor, Subhash Chandra, Joint Secretary (Mines) and others are seen.



Shri Arun Kumar

## APPOINTMENT

## Shri Arun Kumar takes charge as Secretary, Mines

Shri Arun Kumar, an Indian Administrative Service Officer of 1983 batch took charge of the office of Secretary, Mines on 1 March, 2017. Shri Kumar, who hails from Uttar Pradesh, served as Special Secretary, Ministry of Social Justice and Empowerment before moving to his new assignment.

Shri Kumar has hands on experience with the Ministry of Mines as he served as the Joint Secretary between Jan 2012 to August 2015. He has also worked as the Principal Secretary of Mines & Minerals Department in his home cadre, Government of Odisha. He is well acquainted with the issues and challenges before the Mines Ministry and the latest advances made in the mine legislations and policies and the new initiatives of the Ministry.

He holds a dual degree in Electrical and Mechanical engineering and is on central deputation for most of his middle service period. He has briefly worked as the Director General of Foreign Trade in Ministry of Commerce and Industry and knows the nuances of mineral exports and imports. The IBM family believes that the rich experience of Shri Arun Kumar and his posting in the Mines Ministry will catalyze the growth pace achieved in recent years.

Congratulations Sir...



Officers and staff offer greetings to Shri Ranjan Sahai on his being appointed Controller General In-charge of IBM at IBM HQ in Nagpur on 8 Feb, 2017.

#### CHANGE OF BATON

## Ranjan Sahai is CG In-charge

**S**hri Ranjan Sahai, Chief Controller of Mines took charge as the Controller General In-charge on 8 Feb, 2017 at the IBM Headquarters in Nagpur. An alumnus of IIT-Indian School of Mines (IIT-ISM), Shri Sahai has more than 35 years of experience in the mineral and mines administration in the Government sector.

Shri Sahai did his B.Tech in Mining from Indian School of Mines, Dhanbad (now IIT-ISM) in 1979. Subsequently, he worked as Mines Manager with Western Coal Fields, a subsidiary of Coal India Limited and joined the Indian Bureau of Mines as Asstt. Controller of Mines on 2 March, 1981. His hard work and dedication saw him rise to the post of Deputy Controller of Mines in Dec, 1987 and Regional Controller of Mines in March, 1998. He was elevated to the post of Controller of Mines in Feb, 2007 and Chief Controller of Mines in 2016.

Shri Sahai served in various offices of IBM across India in different capacities and has a vast experience in mining legislations, mineral and mines administration. He played a key role in formulation of policy for conservation of minerals and its scientific development. He developed expertise in Sustainable Development in 1996 attending a 4-weeks training programme on Mining and Environment at Lulea University, Sweden. Shri Sahai was closely associated with framing of MMDR Bill, 2011, Amendment of MMDR Act, 2015 and framing of rules thereunder.

He served as the Chairman of the Committee for Drafting of Rules to prescribe parameters of Evidence on Existence of

Shri Sahai has a vast experience in mining legislations, mineral and mines administration. He played a key role in formulation of policy for conservation of minerals and its scientific development

Mineral Contents and as a Convener of Core Group IV on Reclamation and Rehabilitation and CSR initiatives, constituted under Sub Group III on Mineral Exploration and Development for 12<sup>th</sup> Five Year Plan (2012-17). The Institution of Engineers of India bestowed on him "Life Time Achievement Award" in recognition of his contribution to the profession at the 22<sup>nd</sup> National Conclave of Mining Engineers held at Ranchi during 30-31, March, 2011. He attended high-level meetings of the Mines Ministry as a member of Indian delegation and visited countries like Canada, France, Poland, Sweden, Namibia, Australia and New Zealand.

He is known in the IBM corridors for his straight talk, hard work and the speedy remedial actions for issues before him. The IBM family believes that the Bureau would scale newer heights under the able leadership of Shri Sahai.

Congratulations Sir...

#### LATEST

## MCDR 2017 notified

Mines Ministry, in exercise of the powers conferred by Sec 18 of the Mines and Minerals (Development and Regulation) Act 1957, and in supersession of the MCDR 1988, issued a gazette notification to notify the MCDR 2017

**F**ollowing the notification of Mineral Conservation and Development Rules 2017, Indian Bureau of Mines (IBM) has begun working on immediate actionable points for implementation and compliance of regulatory functions under MCDR 2017.

The preparation of IBM Manual for Appraisal of Mining Plan 2017, IBM Manual for Mining Geologists 2017, devising of format for preparing & yearly reporting the scheme of reconnaissance or prospecting, prospecting-cum-mining lease, Preparation of IBM Manual for Inspection of Mines 2017, Review of Threshold values of Minerals, devising/reviewing formats for online submission of self assessment report along with high resolution satellite images and SOPs of MCDR 2017 & Developing standard process sheet or templates are the priority areas identified for immediate action. The Bureau has constituted various sub-committees for timely finalising of the manuals and other reviews.

The Ministry of Mines, in exercise of the powers conferred by Sec 18 of the Mines and Minerals (Development and Regulation) Act 1957, and in supersession of the MCDR 1988, issued a gazette notification dated, 27 Feb, 2017 to notify the MCDR 2017. The new rules have tried to address the issues of the stakeholders bringing a holistic approach for mines and mineral sector.

# 2<sup>nd</sup> Conclave of Mines and Minerals a success

Following the success of 1<sup>st</sup> National Conclave on Mines & Minerals held at Raipur last year, the Ministry of Mines hosted to the II<sup>nd</sup> Conclave on 15 February, 2017 at Hotel Ashok, New Delhi.

Shri Balvinder Kumar, then Secretary, Mines inaugurated the 2<sup>nd</sup> Conclave on Mines & Minerals. In his address, Shri Kumar said the Ministry of Mines brought about several reforms in mining policy and initiated various schemes and programmes to bring about a positive change enabling growth of mining sector.

"These Conclaves paves the way for understanding issues facing the industry and objective deliberations and interactions between stakeholders and policy makers," he said adding that outcome of the 1<sup>st</sup> Conclave was positive in terms of policy revision.

## Technical Sessions

The Conclave saw proceedings of three technical sessions—Auction of Mineral Block & Implementation of PMKKY; Impetus to Exploration and Sustainable Development Framework. More than 100 representatives from Central Ministries, State Governments, Mining Industries, Industry Associations, Financial & Academic Institutions and others participated in the Conclave. It provided a platform for interaction among the various stakeholders.

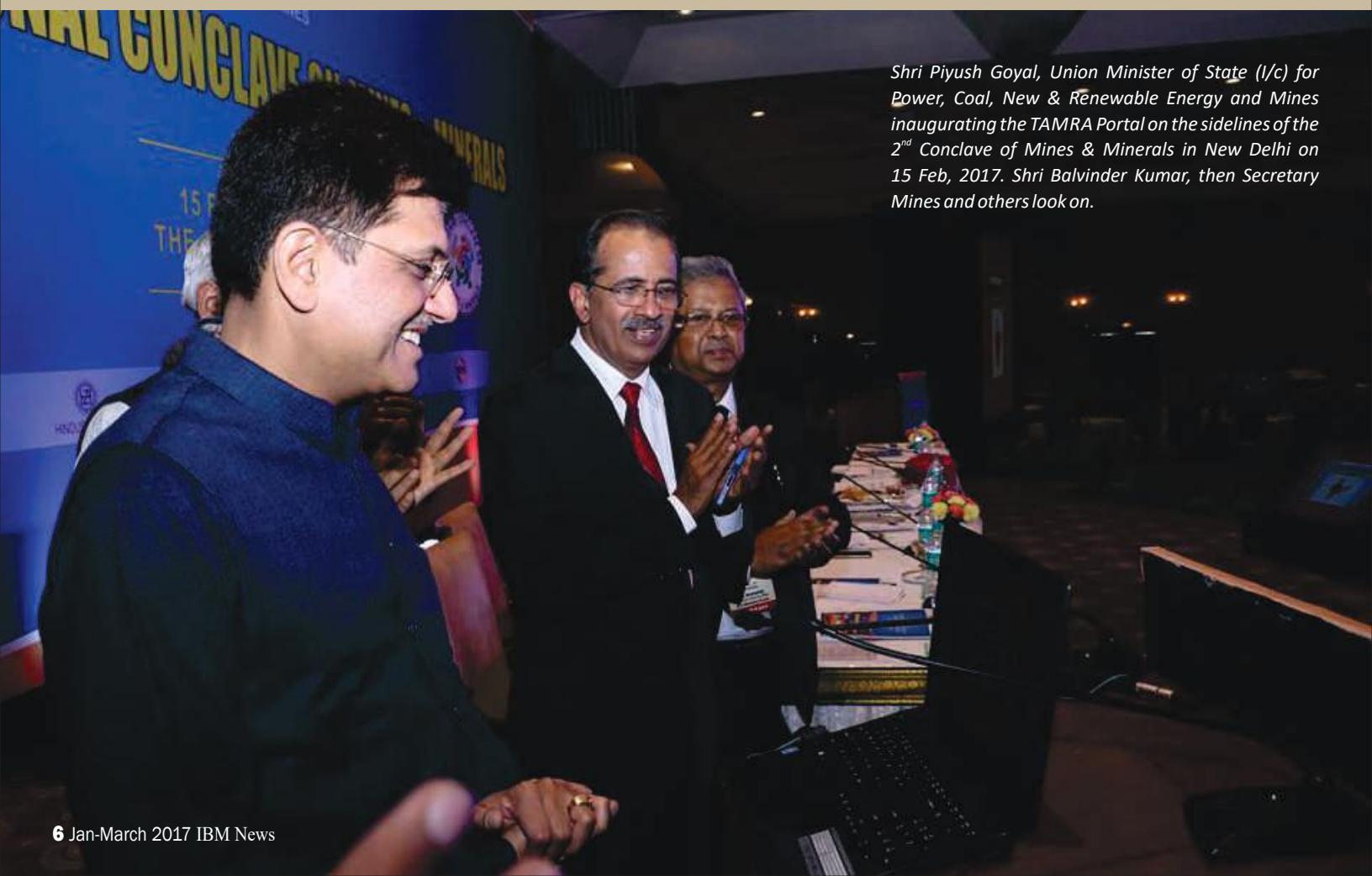
On the concluding day, Shri Piyush Goyal, Hon'ble Union Minister of State (Independent Charge) for Power, Coal, New & Renewable Energy and Mines gave away 5-Star Rating Awards to the owners or representatives of 32 best performing mines. He lauded the efforts of Ministry of Mines and IBM in organising such Conclaves

Shri Piyush Goyal, Hon'ble Union Minister of State (Independent Charge) for Power, Coal, New & Renewable Energy and Mines gave away 5-Star Rating Awards on the concluding day

on the issues, challenges and opportunities in the mining sector. On the occasion, the Minister also launched TAMRA (Transparency, Auction Monitoring and Resource Augmentation) a web-based portal and Mobile App for bringing transparency and efficiency in mineral blocks auction and securing speedy clearances.

Shri Ranjan Sahai, CG In-charge presented a talk on MTS implementation giving Roles of State Government and Mining Industry which was highly appreciated by Union Minister Shri Piyush Goyal and Ministry officials.

*Shri Piyush Goyal, Union Minister of State (I/c) for Power, Coal, New & Renewable Energy and Mines inaugurating the TAMRA Portal on the sidelines of the 2<sup>nd</sup> Conclave of Mines & Minerals in New Delhi on 15 Feb, 2017. Shri Balvinder Kumar, then Secretary Mines and others look on.*





Shri Ranjan Sahai, Controller General In-charge speaking at the 2<sup>nd</sup> Conclave of Mines and Minerals held in New Delhi. (right) A section of delegates who attended the Conclave.

#### MOU WITH TERI

## Action plan for remediation of abandoned mines soon

The Indian Bureau of Mines (IBM) signed a Memorandum of Understanding (MoU) with The Energy and Resources Institute (TERI) regarding preparation of action plan for remediation of abandoned mines, on the sidelines of the Conclave. Shri Ranjan Sahai, Controller General In-charge, IBM inked an MoU with Shri J.V. Sharma of TERI.

The MoU aims to establish and encourage mutually beneficial scientific, technological, educational activities in the area of sustainable mining through meetings, workshops/seminars at national and international level and which can assist achieving sustainable development of mines.

Both the organisations would jointly identify and develop projects of mutual interest for long-term collaboration including capacity building in the coming days and years. IBM & TERI would soon host to a high level meeting to chalk-out the roadmap for the remediation of abandoned mines & sustainable development of mines and surrounding mine environment.



Shri Ranjan Sahai, CG In-charge, IBM and Shri J.V. Sharma of TERI sign and exchange MoU document at the II<sup>nd</sup> National Conclave of Mines and Minerals in New Delhi. S/Shri Piyush Goyal, Union Minister of State (I/c) for Power, Coal, New & Renewable Energy and Mines, Balvinder Kumar, then Secretary (Mines), R. Sridharan, Special Secretary (Mines), Subhash Chandra, Joint Secretary (Mines), P.N. Sharma, Technical Secretary & RCOM, IBM look on.

FUTURISTIC

INNOVATIVE

# Mobile App, Drones to monitor mines

In a bid to make the Mining Surveillance System (MSS) more effective, the Ministry of Mines jointly with the Indian Bureau of Mines launched the Mining Surveillance System (MSS) App for use by the public and Drone Application was launched at two separate functions in January. Shri Balvinder Kumar, then Secretary launched these applications to establish better monitoring system for curbing illegal mining activity.

## Mobile App

The Mobile App, Mining Surveillance System, enables public to file complaints against incidence of illegal mining and violation of mining laws through use of the Mobile App. The App is linked to the Satellite-based Mining Surveillance System, a scheme which keeps a hawk eye on illegal mining through satellite monitoring. Shri Balvinder Kumar, then Secretary (Mines) launched the App from Gandhinagar office of IBM on 24 Jan 2017. S/Shri R.K. Sinha, then CG, IBM, T.K. Rath, Controller of Mines, North Zone, K.S. Yadav, RCOM, Roopwant Singh, Commissioner, Department of Mines and Geology, Govt. of Gujarat, T.P. Singh, Director, BISAG, Department of Science and Technology, Govt. of Gujarat were present.



Shri Balvinder Kumar (second from left), then Secretary (Mines) launching the Mobile App for Mining Surveillance System on the sidelines of the inauguration of Regional office of IBM in Gandhinagar. Shri R.K. Sinha, then CG and others look on. (right) Shri Balvinder Kumar (centre), then Secretary (Mines) is apprised on the functioning of Drones for mine monitoring during his visit to the Naomundi Iron Ore Mine of Tata Steel. S/Shri R.K. Sinha, A.B. Panigrahi, then COM, Rajiv Singhal, Vice-President, Tata Steel and others look on.

The launch of Mobile App also coincided with the opening of Gandhinagar Regional Office, which would cater to the services like statutory clearances/requirements pertaining to IBM as laid down in the MMDR Act 1957 and rules made thereunder

The MSS App is developed to enable the citizens to register complaints against unauthorised mining activities noticed in their vicinity.

Once the complaint is registered, the same is transferred to the GIS platform of Mining Surveillance System for satellite study of violation. The event also coincided with the opening of a Regional Office of IBM at Gandhinagar. The then Secretary opened the office, which would cater to the services like statutory clearances/requirements pertaining to IBM as laid down in the MMDR Act 1957 and rules made thereunder.

## Drone Application

Taking a cue from Tata Steel, the Ministry of Mines jointly with Indian Bureau of Mines (IBM) launched a Drone Application in Mine Monitoring (DAMM) at the Naomundi Iron Ore Mine of Tata Steel as a

pilot project on 16 Jan, 2017. Shri Balvinder Kumar, then Secretary, S/Shri R.K. Sinha, then CG, IBM, A.B. Panigrahi, Controller of Mines (CZ) and Rajiv Singhal, Vice-President, Tata Steel were present. In an interaction with the media, Shri Balvinder Kumar said the Government had initiated Mining Surveillance System using space technology and Mobile App to curb illegal mining and monitoring all activities within the lease hold areas.

The pilot project is being conducted by Skylark Drones, a Bengaluru-based firm which specialises in Drone applications.

The DAMM would help initial survey to carry out exploration activity, physical terrain mapping for segregation of land use, mapping of forest area, contour mapping, 3D modeling and terrain modeling for effective mine planning.



*Shri Ranjan Sahai, CG In-charge, IBM chairing the Presentation-cum-Workshop on MTS with stakeholders on 27 Feb, 2017 at IBM HQ, in Nagpur. Shri S.K. Adhikari, CMG is seen.*



## TECHNOLOGY

# MTS, MSS projects makes new strides

The ambitious Mining Tenement System (MTS), which aims to bring a pan India automation in the mining sector covering the life cycle of mine from exploration to closure, is on the fast track. A series of meetings was held in the last quarter to speed up the implementation of the project. Shri Ranjan Sahai, now Controller General In-charge and then CCOM, Shri M. Biswas, Controller of Mines and Shri G.K. Jangid, DCOM attended a meeting at Ministry of Mines on 23 Jan, 2017 and briefed the ministry officials on the status of MTS project.

Prior to the meeting in the Ministry, various discussions were held between Wipro team, Coordination Committee members, Theme Committee members and representatives of DGM Chhattisgarh regarding lease code numbers and dashboard on 6 Feb, 2017 and on SRS document on 7 Feb, 2017 at IBM Headquarters, Nagpur wherein

representatives of 12 states, DGMs NISG, GSI, NIC, MECL etc. along with IBM personnel participated. During Jan 2017, Shri G.K. Jangid, DCOM, Shri D.S. Walde, ME and Shri R. Majumdar, SMG visited State DGMs of Chhattisgarh, Karnataka, Gujarat and Odisha, respectively along with Wipro personnel for collection of information. Shri S.K. Adhikari, CMG, met officers of NIC (Mines Information Division), Cloud Division and GIS Division and officials of IBM and Wipro at New Delhi and discussed issues pertaining to NIC Cloud services and NIC base map services to be used by IBM for MTS project. A Workshop-cum-Meeting on SRS gathering for MTS was held during March.

Shri Ranjan Sahai, CG In-charge, IBM inaugurated a two days Presentation-cum-Workshop on MTS with the Stakeholders on 27 Feb, 2017 at the Headquarters, Nagpur. The representatives from stakeholders like GSI, State DGMs, NIC

were invited to discuss with Wipro Ltd, the Implementation Agency on software requirement specifications for various modules. About 85 officers from 13 mineral-rich states of the country participated in the workshop.

## MSS

Mining Surveillance System (MSS) is a satellite-based monitoring system which aims to establish a regime of responsive mineral administration through public participation, by curbing instances of illegal mining activity through automatic remote sensing detection technology. Under the project, the district mining officials of the State Government are conducting field verification of triggers. As of now, 198 trigger reports have been submitted by different states out of which 35 cases are observed as unauthorised mining.

# Director, Ministry of Mines visit IBM Headquarters

Shri Prithul Kumar, Director, Ministry of Mines visited the IBM Headquarters in Nagpur on 18 January, 2017. Shri R.K. Sinha, then Controller General chaired a review meeting during the visit of the Director. Shri Sinha and Shri Prithul Kumar reviewed the progress of various schemes – Mining Tenement System (MTS), Mining Surveillance System (MSS) and Star rating of Mines under SDF.

S/Shri Ranjan Sahai, then CCOM and now CG In-charge, IBM, S.K. Adhikari, Chief Mining Geologist, P.N. Sharma, Technical Secretary & RCOM and other senior officers of IBM, representatives of Wipro Ltd and NISG attended the review meeting.

Speaking on the occasion, Shri Prithul Kumar pointed that early completion of the MTS project was imperative to the achieving of the objectives under MMDR (Amendment) Act, 2016. It would bring about the integration of data concerning major minerals from 13 mineral-rich states. Speaking on the occasion, Shri Ranjan Sahai, then Chief Controller of Mines and now CG In-charge, who spearhead the MTS project said the Bureau has set a target to make the MTS software operational by the end of the year 2017. "All efforts will be made to see that target is achieved within the time-frame," he said. While, Shri R.K. Sinha, then CG

Shri Prithul Kumar pointed that early completion of the MTS project was imperative to the achieving of the objectives under MMDR (Amendment) Act, 2016.

commended the role of IBM in realising the launch of Mining Surveillance System and roll out of other IT solutions in mines and mineral administration.



(Clockwise) Shri Ranjan Sahai, CG In-charge, IBM addressing the gathering on Khanij Diwas celebrations organised at IBM HQ in Nagpur. S/Shri P.K. Jain, CME, IBM, M. Raju, Director General, GSI, Girishwar Mishra, V-C of Mahatma Gandhi International Hindi University are seen. A section of participants at the Khanij Diwas held at the HQ. The officers and staff took out a rally to mark the Foundation Day. Shri Sahai and Shri P.K. Jain during the inauguration of Blood Donation and Health Camp. Shri Mujeeb Siddiqui, DME (Intelligence), coordinated for the blood donation camp.

#### 70<sup>TH</sup> FOUNDATION DAY

## Khanij Diwas celebrated in IBM offices

The 70th Foundation Day of Indian Bureau of Mines (IBM) was celebrated with pomp and gaiety at the Headquarters in Nagpur, zonal and regional offices on 1 March, 2017. The day marked various events unique to HQ and other IBM offices with lots of enthusiasm and vigor.

#### Headquarters, Nagpur

The IBM Headquarters in Nagpur hosted the main event. Shri M Raju, Director General of Geological Survey of India was the chief guest and Shri Girishwar Mishra, Vice-Chancellor of Mahatma Gandhi International Hindi University was the guest of honour for the programme. Shri Ranjan Sahai, Controller General In-charge of IBM presided.

In his address, Shri M Raju said IBM and GSI should strengthen their ties and work closely for the development and conservation of minerals in the country.

"IBM was established in 1948, deputing handful of officers drawn from GSI. It grew a bigger organisation and established firmly in handling mining laws and administration of minerals. Both GSI and IBM should work together and strengthen their bond to the advantage of mining sector in India," he said.

While, Shri Mishra opined that the mineral sector was among the key sectors contributing to the national development. However, there was little awareness among the general population about mining and mineral sector. IBM should make people more aware about mines and minerals and allied issues through its publications, he added. The dignitaries released a publication, Mineral Concession Rules, 2016 (updated up to 8<sup>th</sup> December 2016) on the occasion.

Shri Ranjan Sahai, Controller General In-charge in his remarks said IBM withstood

many ups and downs since inception but always recognised for its positive contribution in administration of mines and minerals. Now, IBM has begun to use latest technological solutions for better delivery of its duties and services. "The department received numerous accolades for its latest series in use of technology to administer mines and minerals," he pointed. Shri Sahai felicitated four retired employees on the occasion. Indira, Bhavan, the IBM building decked up with bright illumination and wore a bridal look for three days starting eve of March 1.

Members of Swarsakhi Group and Kum. Preeti Purohit presented soulful rendition of devotional songs during the programme. Dr. P.K. Jain, Chief Mineral Economist convened the programme. S/Shri M.U. Siddiqui, Deputy Mineral Economist (Intelligence) conducted the proceedings and D.W. Beck,

Supdg. Mineral Economist (I) offered vote of thanks.

#### Padayatra

Earlier, a Padayatra was taken out from Indira Bhavan to CP Club. A blood donation and health camp was also organised to mark the day. More than 50 officers and staff of the Bureau donated blood.

#### Goa

Shri Kishore Kumar, CEO of Vedanta Ltd was the chief guest for the Khanij Diwas celebration and inaugurated the event lighting the traditional lamp. In his address, Shri Kumar complimented IBM on completing 70 years. He commended the role of IBM in devising initiatives such as Mining Surveillance System, Mining Tenement System and Application of Space Technology in detection of illegal mining. "In advanced countries, the mineral related data is available on the web portal. The MTS project of IBM will place India on these lines," he said and urged the government that rules and regulations be simplified to improve the mineral sector development index and to facilitate ease-of-doing business.

In his welcome address, Dr. Y.G. Kale, RCOM, Goa, delved about the history of IBM and its Charter of Functions. He also briefed about the present set up of IBM and its role as National Technical Regulator for Mineral Sector. To mark the Khanij Diwas, a Technical Workshop on "Technologies for Mine Planning Application" was organised. Shri Pramod Kumar Sarangi, Technical Manager, EDS Technologies, Hyderabad presented the talk and threw light on various software available for surveying, resource estimation, mine planning and supply chain optimisation. He also demonstrated the application of these softwares through case studies.

Shri Balkrishna Chodankar, Lecturer, Government Polytechnic, Bicholim, Goa presented a talk on "Energy Conservation in Mining Industry and Use of Solar Energy. His talk shed light on the status of energy consumption in the mining sector by various operation and importance of energy



Shri Kishore Kumar, CEO of Vedanta Ltd speaking at the Khanij Diwas celebrations organised at IBM Goa office. Dr. Y.G. Kale, RCOM, Goa office and others are seen.

IBM withstood many ups and downs since inception but always recognised for its positive contribution in administration of mines and minerals. Now, IBM has begun to use latest technological solutions for better delivery of its duties and services. The department received numerous accolades for its latest series in use of technological revolutions to administer mines and minerals

- Ranjan Sahai  
Controller General In-charge

conservation and sensitised about the options available to tap the solar energy. Dr. Kale also presented talk on "Salient Features of MCDR Rules 2017" which evinced interest among the participants. He briefed about the new provisions on sustainable mining under MCDR 2017.

Shri Prem Prakash, Deputy Controller of Mines presented the vote of thanks. Shri R.S. Suadagar, STA (ME) conducted the programme. More than 110 people from IBM, mining industry were present.

#### Ranchi

The Ranchi office of IBM also wore a bridal look for the Khanij Diwas 2017 with flowers, colourful balloons and Rangoli welcoming the guests. Shri J. Prasad, Deputy Director General, GSI was the chief guest, while Shri A.K. Sharma, Director, GSI was the guest of honour. S/Shri B.K. Mohapatra, Manager (Geology), HINDALCO, P.K. Sen were invited as guests for the event.

The chief guests lighted the lamp to

inaugurate the programme which was followed by their speeches. In his remarks, Shri Anupam Nandi, RCOM, IBM Ranchi briefed on the history of IBM. Shri A.K. Sharma, Director, GSI commended the role of IBM in areas of conservation, systematic development of mines and protection of environment through SDF. Shri J. Prasad, DDG, GSI also praised the recent reforms in mining policies. The inaugural programme was followed by a Technical Workshop in which Shri Ajay Kumar, GM, Syntron Ind. Pvt. Ltd, S.S. Eckha, JSO, Md. Kasim, JTA (Survey) and Shri Victor Basu, Geologist, Hindalco presented talks.

Shri Bikram Kumar Singh conducted the programme and Shri Naman Ekka proposed vote of thanks. Officers and staff of Ranchi regional office participated in the programme.

The Khanij Diwas was also celebrated in all the divisional and regional offices across Bengaluru, Chennai, Hyderabad, Dehradun, Ajmer, Gandhinagar, Raipur and other IBM offices.

## KHANIJ DIWAS: GLIMPSES FROM REGIONAL & SUB-REGIONAL OFFICES



### MEETING

# Study to establish ratio of lump and fine in NMDC, SAIL mines

In order to decide the ratio of lump and fine present in Chhattisgarh mines, Shri Ranjan Sahai, then CCOM and now Controller General In-charge, IBM chaired a meeting with the officials of National Mineral Development Corporation (NMDC) and Steel Authority of India Ltd (SAIL) during January 2017.

The meeting aimed to establish the average percentage of lump & fine present in run of mine for Chhattisgarh State as required under Rule 46 of Mineral (Other than Atomic and Hydrocarbon Energy Minerals) Concession Rules 2016. The modus operandi for undertaking such

technical study was discussed in detail and concluded that study be carried out from 30<sup>th</sup> Jan, 2017 after making necessary preliminary arrangements at the mine sites for conducting such study. Shri Sahai asked the officers concerned to make early preparations to take up the study. The authorities began study on the lump & fine present in mines of NMDC beginning March 2017.

S/Shri A.B. Panigrahi, then Controller of Mines (CZ), S.K. Adhikari, Chief Mining Geologist and other senior officers from IBM Nagpur and Raipur Regional Office took part in the meeting.

The meeting aimed to establish the average percentage of lump & fine present in run of mine for Chhattisgarh State as required under Rule 46 of Mineral (Other than Atomic and Hydrocarbon Energy Minerals) Concession Rules 2016.

40<sup>TH</sup> ANNIVERSARY

# IBM News turns 40

The IBM News, the quarterly newsletter of the Indian Bureau of Mines (IBM) has achieved a milestone. The newsletter will complete 40 years of journey in 2017 and sets a history of sorts for continuously being brought out since the first Jan-March, 1978 issue was released in 1978.

A brainchild of our versatile former Controller, Shri D.N. Bhargava, the first issue of the newsletter was released in May 1978 under the guidance and stewardship of illustrious people like Shri P.M. Rao, then Senior Editor who superannuated as Chief Editor and later continued under Shri R. Namashivayam. The newsletter was made bilingual beginning July-Sept 1980 and continues to be a bilingual highlighting the salient activities of principal technical regulator of mining in the country. The IBM News was made in 4-colour from July-Sept 1998 issue in the period of Shri A.N. Bose as CG, IBM and Shri R. Namashivayam, the Chief Editor. The Publication Team has toiled hard in order to keep the ball rolling while handling the cumbersome process of composing each type faces manually during the Letterpress printing era in 1970s and 80s. The newsletter printing was switched to offset grey printing and 4-colour printing later.

What started as four pages newsletter has undergone a huge transformation and is being brought out in 4-colour up to 20 pages since past few years and the soft copy is regularly uploaded on Bureau's website for a wider audience in the mining sector. The Publication team of IBM assures its readers that the newsletter shall keep pace with the technological advances and would make all efforts to make IBM News more appealing and readable in years to come. Beginning now, a column will be dedicated to some interesting facts from the old issues.

Thanking you.

A.K.Singh  
Chief Editor

PEEK INTO HISTORY

## First issue of IBM News

The first issue of the IBM News was released in April 1978 for Jan-March period. The Front page of the newsletter carried "From the Controller's Desk" Column penned by then Controller of IBM Shri D.N. Bhargava. "Two basic factors have contributed to the birth of this Journal. Foremost is the growing feeling in the Ministry of Steel and Mines that there is need to publicise regularly the salient features of the multifarious activities of IBM. Secondly, there is a recognition of the need to establish a regular communication channel with our "clientele" – the mining and mineral industry, government departments at the Centre and the States, educational institutions and the like on one hand and with our own family members now spread all over the country in our regional/sub-regional offices," is what he said while introducing IBM News.

The front page also carried news about IBM's participation at the Indian Engineering Trade Fair held at Pragati Maidan, New Delhi from 2 Feb – 14 Feb, 1978. Shri Karia Munda, then Minister of State for Steel and Mines visited the IBM Stall, which drew keen interest among the visitors for its publications, several beneficiation process developed and charts on latest mineral inventory in the country and production. The IBM Stall at Third World Book Fair held during the same



The Front page of the IBM News Jan-March, 1978 issue.

period in New Delhi was also a big draw.

The first issue also carried news about IBM getting an important technical consultancy assignment from Kerala Government to undertake the Designing of Limestone Mine in Kerala for a Cement plant producing 1200 tonnes cement per day. The mine was to be worked under difficult conditions because of restricted area, presence of thick soil and existence of perennial stream flowing over the mineral-bearing area.

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## SUSTAINABLE DEVELOPMENT

### MEMC WEEK CELEBRATIONS

# Mine owners sensitised on Systematic Mining

To sensitise the mine owners about good practices and sustainable mining, the Indian Bureau of Mines (IBM) in association with mining companies hold Mines Environment and Mineral Conservation (MEMC) Week as an annual affair under the jurisdiction of all its zonal and regional offices. During 2016-17, the MEMC week were celebrated under the auspices of IBM offices across the country to develop among mine owners a sense for sustainable development. The MEMC week aims for systematic mining with conservation of minerals and protection of environment in mining areas.

#### Ajmer

The Ajmer Region celebrated MEMC

Week between 8 Jan, 2017 and 14 Jan, 2017. About 48 mines of Rajasthan State participated in the week-long celebrations. Shri R.K. Sinha, then CG, IBM presided over the valedictory of the programme held on 21 Jan 2017 at Rampura Agucha mine in Bhilwara district, and gave away shields to the award winning mines. Shri T.K. Rath, COM (North Zone) and Shri B.L. Kotriwala, RCOM, Ajmer Region, were present on the occasion.

#### Bhubaneshwar

The Bhubaneshwar Regional office organised MEMC Week and the concluding event on 13 Jan, 2017. Shri R.K. Sinha, then CG, IBM graced the function as chief guest and distributed prizes for the

award winning mining companies or lessees for their contribution and efforts towards afforestation, waste dump management, reclamation and rehabilitation, top soil management, sub grade ore management and other categories. Shri A.B. Panigrahi, COM (CZ) and Shri Harkesh Meena, RCOM, Bhubaneshwar were present.

#### Dehradun

The Dehradun Regional office organised the 25<sup>th</sup> MEMC Week 2016-17 from 5 March, 2017 to 11 March, 2017. The final day function of the celebration was organised at Panchkula, Haryana on 16 April, 2017. Shri Ranjan Sahai, CG In-charge was the chief guest for the valedictory. Shri Sanjay Vashisht,

### GLIMPSES OF MEMC WEEK CELEBRATIONS FROM VARIOUS OFFICES





(Clockwise) Shri Ranjan Sahai, CG In-charge releasing a souvenir during the 24<sup>th</sup> MEMC Week celebrations organised under the aegis of IBM Goa office at Ravindra Bhavan, Sanquelim, in Goa. Shri Kishore Kumar Rajagopal, CEO of Vedanta Ltd, Dr. Y.G. Kale, RCOM, Goa and others are seen. A group of women performing a traditional dance at the cultural programme organised on the sidelines of the MEMC week in Goa. Shri Sahai presenting star rating award to a mine owner on the sidelines of the MEMC week celebrations held in Jabalpur.

Commercial Head, Ambuja Cements Ltd, Darlaghat Plant (HP) presided.

Shri Sahai briefed about latest amendments in the legislation and extended assistance and support of the Bureau to the mining industry. The department is focused on digitisation of information including ongoing prestigious project, the Mining Tenement System (MTS). He gave away the awards to the prize winners and congratulated the participants. Shri Sanjay Vashisht and Shri Pushpendra Gaur, Dy. Controller of Mines & OIC, Dehradun Regional office also spoke. Shri D.R. Gurjar, ACOM, officers of DMG, Uttarakhand, mine owners and engineers were present.

#### Goa

The IBM Goa Regional office observed the 24<sup>th</sup> MEMC Week of Mechanised Mines of Goa, parts of Maharashtra and Karnataka State during 6-11 February, 2017. Dr. Y.G.

Kale, RCOM, Goa inaugurated the celebrations flagging off the Inspection teams at Bicholim Iron Ore Mine of Sesa Resources Ltd. About 32 mines from Goa, 13 from Maharashtra and 2 from Karnataka participated in the week-long celebration. Seven inspection teams were formed to evaluate the participating mines, which were categorised into four groups based on the production. Ravindra Bhawan, Sanquelim-Goa hosted to the concluding and award presentation ceremony on 19<sup>th</sup> March, 2017. Shri Ranjan Sahai, CG In-charge, IBM was the chief guest, while Shri Kishore Kumar Rajagopal, CEO of Vedanta Ltd was Special invitee. On the occasion, Shri Sahai inaugurated Exhibition-cum-Stalls of Mine models for sustainable development and CSR activities undertaken by the mining industry.

In his address, Shri Ranjan Sahai appreciated the Goan mining industry for withstanding the odds of suspension of

mining activities and congratulated for resumption of mining in the State. He advocated that the industry has to develop their own standard operating system and procedures and disseminate self appraisal to public at large to avoid such suspensions in future. "IBM is also working on MTS project to bring the entire life cycle of mining – from exploration to mine closure – under surveillance through information technology and thereby bring more transparency. The inspection of mines will also be automated in coming days," he revealed and urged the MEMC Council to launch their own website to highlight their work towards SDF.

He also advocated that seminars/ workshops on topical interest be organised during monsoon season when mining activities gets halted. The mining industry should introspect on various technical parameters such as reserves, resources, dumping space available, road infrastructure

## RETIREMENT FAREWELL



S/Shri R.K. Sinha, CG, IBM, A.B. Panigrahi, COM, CZ, Shri S.S. Gadre, AMG, Shri U.K. Bokade, AME, Shri A. Thomas, Stenographer and Shri Saklani, MTS were felicitated on 31 Jan, 2017 on their superannuation. Shri Ranjan Sahai, then CCOM and now CG In-charge and other senior officials of IBM were present. Dr. N.K. Singh, Joint Secretary to Government of India was the guest of honour for the retirement function. Shri Sinha was presented with a Scroll of Honour on the occasion. Smt. Rajyalakshmi, MTS who served in Hyderabad Regional office retired on 31 Jan, 2017. Shri Ranjan Sahai, CG In-charge felicitated Shri M.G. Deshmukh and Shri Lulla on 31 March, 2017.

contd. from page 15

and carrying capacity etc. and set standards and production capacity accordingly, he added.

Shri Kishore Kumar, CEO of Vedanta Ltd highlighted the importance of resource sector and opined that People, Planet and Investors were three important players for sustainable development on earth. He lauded the role of IBM in prompt approval of Mining Plans and adoption of various digital technologies for mineral regulation and appealed the industry to build a positive image of the mining industry through adoption of sustainable development.

On the occasion, a Souvenir containing technical articles and other useful information was released. Shri Ranjan Sahai also presented the prizes for the winning mining companies. A cultural programme depicting Goan tradition and on the theme of environmental protection was also organised. Dr. Y.G. Kale, RCOM, Goa Regional office, Shri Sauvick Mazumdar, COO of Vedanta Ltd and Chairman, MEMC Council were present. Shri Vijay Kumar, Head, Iron

Ore Mining, Vedanta Ltd and Secretary, MEMC Council offered the vote of thanks.

### Hyderabad

The Hyderabad Regional office also celebrated the MEMC Week and organised its concluding ceremony on 5 March, 2017. Shri Ranjan Sahai, CG In-charge presented shields to the best performing mines. Shri J.R. Chaudhary, COM (SZ) and Shri Pankaj Kulshreshtha, RCOM, Hyderabad, were present.

### Jabalpur

The 26<sup>th</sup> MEMC Week of Jabalpur Region of IBM was held during 25-26 March, 2017 at Katni, Madhya Pradesh. Shri Ranjan Sahai, CG In-charge, IBM graced the valedictory as chief guest on 26 March, 2017. In his address, Shri Sahai said Mining Regulatory Framework was under transformation stage. Many of the functions of IBM are going online and space technology was being used for mining surveillance. "Soon, mining plans will be processed online and production of data

would be disseminated through Mobile App," he said.

He appealed all the mine owners to make efforts for eco-friendly mining. Shri R. Purohit, RCOM, officers of Jabalpur regional office, representatives of Reliance Cement Ltd, Birla Corporation and many other mining companies were present. On the Sidelines of MEMC week celebrations, Shri Ranjan Sahai also took time to attend a Mine Owners' meeting and discussed many technical matters related to mining and mineral regulations and policy developments. Shri R. Purohit, RCOM, Jabalpur Region was present during the mine owners' meeting.

### Nagpur

Shri Ranjan Sahai, then CCOM and now CG In-charge, IBM inaugurated the 28<sup>th</sup> MEMC Week celebrations under the aegis of Nagpur region. Shri Arun Prasad, RCOM and representatives of various mining companies were present on the occasion.

68<sup>TH</sup> ANNIVERSARY

# IBM offices celebrates Republic Day

The Indian Bureau of Mines (IBM) celebrated the 68<sup>th</sup> Republic Day of India at the Headquarters and Zonal & Regional Offices of IBM on 26 Jan, 2017. Shri R.K. Sinha, then Controller General, IBM hoisted the tricolour at the main event held at IBM HQ in Nagpur. Shri Ranjan Sahai, then CCOM and now CG In-charge, IBM and Divisional Heads and senior officers were present during the programme.

Shri Sinha, in his address said IBM made many strides in the last few years in adopting innovative technologies and application in mines and mineral management in the Country. The work carried out by the department has drawn appreciation from all stakeholders, he added.

The Republic Day celebration was also organised in various Regional and Zonal offices at Bengaluru, Chennai, Dehradun, Gandhinagar, Goa, Hyderabad, Raipur and sub-regional offices.

## Goa

In Goa, Dr. Y.G. Kale, RCOM hoisted the tricolour and the annual event was

To mark the day, the IBM Recreation Club, Goa organised various sport and cultural events after the flag hoisting function. The events such as slow motor cycling, volley ball, carom and running competitions were organised for the officials and their family members. A Rangoli contest was also organised for women. A cultural programme followed in the evening. Dr. Kale, RCOM gave away the awards to the winners in the sports events and cultural contests.

celebrated with fanfare and zeal of patriotism. S/Shri Prem Prakash, DCOM, Kalmata, Sr. Mining Geologist, G. Ram, Sr. Asstt. Controller of Mines, G.S. Kannan, JMG and other officers were present. The employees and their family members were also present on the occasion. Shri Jitendriya Pradhan, STA (ME) conducted the event.

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cultural events after the flag hoisting function. The events such as slow motor cycling, volley ball, carom and running competitions were organised for the officials and their family members.

A Rangoli contest was also organised for women. A cultural programme followed in the evening. Dr. Kale gave away the awards to the winners in the sports events and cultural contests.

## R-DAY CELEBRATIONS AT IBM OFFICES



Dr. Y.G. Kale, Regional Controller of Mines and other officers and staff of the Goa regional office pose for a photograph during the Republic Day celebrations organised at the office premises. (Right) The officers and staff of the Raipur Regional office during the flag hoisting event to mark the 68<sup>th</sup> Republic Day held at the Regional office in Raipur.





Shri Ranjan Sahai, CG In-charge, IBM inaugurated the Rajbhasha Hindi Workshop on 20 March, 2017 at Goa Regional office of IBM. The workshop stressed for the implementation of Rajbhasha in government activities.

## SEMINAR

# IBM officials attend MPT 2017

The annual International Seminar on Mineral Processing Technology MPT - 2017 was organised during 1-3 Feb, 2017 under the joint auspices of Indian Institute of Mineral Engineers and National Mineralogical Laboratory at Radission Blu Resort, Temple bay, Mahabalipuram, Chennai.

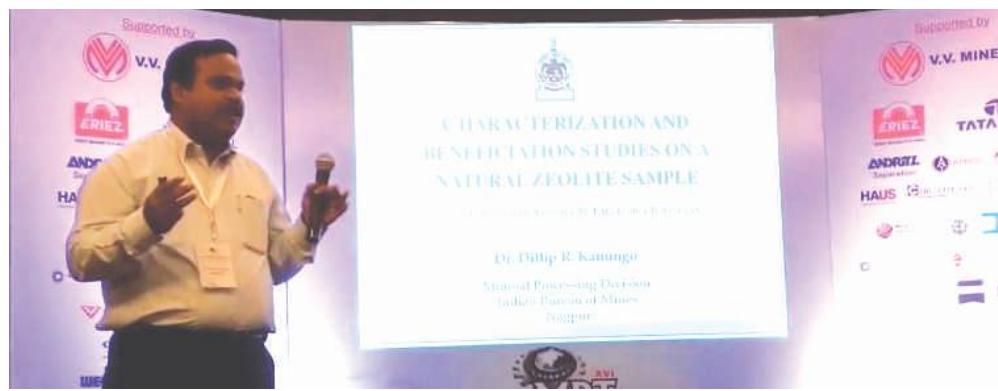
Dr. (Smt) Sandhya M. Lal, Chief Ore Dressing Officer, Dr. Dilip R. Kanungo, Suptdg Officer (OD), Shri V.A. Sontakkey, Dy. Ore Dressing Officer, Shri Suresh Kumar, Dy. Ore Dressing Officer and Shri T. Purnachandra Rao, Asstt. Ore Dressing Officer from Mineral Processing Division of Indian Bureau of Mines attended the International Seminar and presented following technical papers:

Characterisation and Beneficiation Studies on natural zeolite sample by Dr. Dilip R. Kanungo, Beneficiation of low grade limestone for cement industry applications and Beneficiation of a Glauconite sand stone sample, Kurchha-Batwadih area, Sonbhadra district, Uttar Pradesh by Shri V.A. Sontakkey,

Value addition to saprolite from lateritic mine reject, Chintaluru, Andhra Pradesh by Shri Suresh Kumar and Processing of a low grade ferruginous rock phosphate sample from Hirapur, Madhya Pradesh by Shri Purnachandra Rao.

### Mine visit

Shri M.G. Raut, DODO and Shri L.B. Toal, DODO from Modern Mineral Processing Laboratory & Pilot Plant, IBM, Nagpur visited the Upparvahi Limestone mine of Maratha Cement Works of Ambuja Cements Ltd in Chandrapur district and explored the possibility of screening ROM ore to reduce the amount of shale in the sized products. The officers held discussion with Shri Abani Kumar Padhy and Shri Ajay Kumar Jain of Ambuja Cements Ltd about beneficiation of Limestone at Maratha mines to remove shale. The visiting officers suggested various techniques through which the shale can be removed.



Dr. Dilip R. Kanungo, Suptdg. Officer (OD) delivering a lecture at the Annual International Seminar on Mineral Processing Technology MPT-2017 held at Mahabilipuram, Chennai.

## TECHNICAL UPDATES

i) A low grade iron ore dump sample of Thimmappanagudi mine was received from Mysore Minerals Limited for beneficiation studies at Regional Ore Dressing Laboratory, Indian Bureau of Mines, Bengaluru. The objectives of the test work were: a) Characterisation studies of the as received sample and b) to develop a process scheme to produce a concentrate suitable for steel industries.

The as received sample assayed 36.43% Fe(T), 0.12% FeO, 26.0 % SiO<sub>2</sub>, 11.78 % Al<sub>2</sub>O<sub>3</sub>, 0.40 % CaO, 0.1 % MgO, 0.05 % Na<sub>2</sub>O, 0.11 % K<sub>2</sub>O, 0.24 % Mn, 0.04 % P, 5.78% LOI and trace amounts of sulphur. The final process comprises of crushing followed by rod mill grinding, Desliming of grinding product, Tabling, Magnetic separation on combined slimes.

The combined concentrate (Gravity) assayed 65.31 % Fe (T), 2.54 % SiO<sub>2</sub>, 2.05 % Al<sub>2</sub>O, with 1.79% LOI weight per cent yield of 20.4% and Fe (T) recovery 37.2%. The combined concentrate (Gravity & Magnetic) assayed 60.31 %Fe (T), 6.02 % SiO<sub>2</sub>, 4.24 % Al<sub>2</sub>O, with 3.01% LOI weight per cent yield of 31.8% and Fe (T) recovery 53.5%.

By adopting simple process, the waste dump from Thimmappanagudi Iron Ore mine could be upgraded to 65.31% Fe(T) from 36.43% Fe(T) with recovery of 37.2%.

ii) An iron ore waste dump sample from Subrayanahalli iron ore mine was received from Mysore Minerals Limited for beneficiation studies at Regional Mineral Processing Laboratory, Indian Bureau of Mines, Bengaluru. The objective of the test work was to develop a process scheme for upgradation of the iron ore sample to produce a concentrate containing the grade in the range of 60% to 62% Fe(T).

The as received sample assayed 40.50% Fe (T), 0.21% FeO, 16.29% SiO<sub>2</sub>, 14.67% Al<sub>2</sub>O<sub>3</sub>, 1.48% TiO<sub>2</sub>, 0.35% CaO, 0.02% MgO, 0.02% Na<sub>2</sub>O, 0.01% K<sub>2</sub>O, 0.09% Mn, 0.07% P, 8.87% LOI and trace amounts of sulphur. The final process flow sheet comprised of Rod mill grinding, tabling at minus 35 mesh size, Wet Medium Intensity Magnetic Separation of Table slimes.

Table concentrate I assayed 63.50 % Fe (T), 3.56 % SiO<sub>2</sub>, 1.86 % Al<sub>2</sub>O<sub>3</sub> with weight per cent yield of 26.1% and Fe (T) recovery 40.6%. By adopting simple process, the waste dump which was assaying 40.50% Fe (T) could be upgraded to 63.50% Fe (T) with recovery of 40.6%.



*Shri Ranjan Sahai, CG In-charge speaking at the Training Programme on GPS conducted at the IBM HQ in Nagpur. (right) The officers and staff of Mining and Geology discipline at the field demo of Sxtreo Gagan enabled Rugged GNSS handheld GPS at the IBM campus.*

#### WORKSHOP

## Training on GPS System held

The Training Centre, IBM, Nagpur organised a presentation and field demo of Sxtreo GAGAN enabled Rugged GNSS handheld Global Positioning System (GPS) and DGPS on 22 March, 2017 at IBM HQ, Nagpur. Stesalit Smart Technologies, Kolkata conducted the presentation and field demo in which technical officers and officials of Mining & Geology discipline from the Headquarters participated.

The experts from the company explained various features of the newly designed GPS which can help in the survey work in the field. The representatives of Stesalit Smart Technologies apprised the officers about the advancements made in the GPS System. They also explained the participants about the functionality of the DGPS in the field and answered the latter's queries.

#### LECTURE

## IBM Authors, Editors interact

In a bid to have a fruitful interaction between the authors and editors of Indian Bureau of Mines and better understanding the nuances of technical editing and general editing of Indian Minerals Year Book, Dr. P.K. Jain, CME, Mineral Economics Division took initiative to organise a lecture programme at the IBM Headquarters in Nagpur on 21 Feb, 2017.

Shri Ranjan Sahai, CG In-charge declared the lecture programme open and stressed the need for more such interaction between different sections and divisions of IBM and adopting new technologies and advances in respective

fields. He stressed on foraying into newer dimension in data acquisition and shifting to online/digital platforms to speed up compilation and data interpretation process.

Later, Shri Mujib Siddiqui, Deputy Mineral Economist presented a talk on "Technical Editing of Indian Minerals Yearbook". The lecture was followed by a session on General Editing of IBM Publications by Shri M. Sumesh, Senior Editor, Publication Section. The lecture session was followed by an interactive session. The officers of Mineral Economics Division and officers and staff of Publication Section of IBM were present.



*Shri Mujib Siddiqui, DME (I) delivering his talk during the Lecture programme organised at IBM HQ in Nagpur. (right) Shri M. Sumesh, Senior Editor, Publication Section presenting his lecture on Editing.*

## SNIPPETS

## Conservation of Minerals

While dealing with stoping application of Sindesar (Khurd), Baaria, Baroi & Zawarmala lead zinc mines of Hindustan Zinc Ltd, the company was advised to modify some of the stope boundaries in the interest of mineral conservation. Accordingly, the HZL officials agreed to modify the stope boundaries and submitted the revised form E. In the exercise, the metal in concentrate (MIC) has increased. The present average sale value of lead and zinc at LME is around \$ 2025 per tonne and its conversion rate is about Rs 67/- which works out to be Rs 1,35,675/- per tonne. Thus, the value of increased MIC of 5799 tonne will be Rs 78.68 crore.

## RMDS Study of Iron ore mines

The Technical Consultancy and Mining Research Division of IBM took up Regional Mineral Development Study (RMDS) of four Iron ore mines of SAIL in Balod district of Chhattisgarh state and submitted the draft report for scrutiny. The TC Division also completed Survey work with Differential GPS (DGPS) for Tandur & Bellary areas under IBM-NRSC pilot project.

## Registration under Rule

The registration under Rule 45 of MCDR, 1988 has made good progress. Out of the 1893 working leases, 1869 leases have registered as on March 2017. While, 1967 leases out of the 2548 non-working leases are registered. In total, 3836 leases are registered with IBM. About 220 mines/leases are suspended. Around 236 mines/leases are recommended to the state government for termination. So far, 11,114 end users, traders, stockiest and exporters are registered under the Rule. All the leases under the Rule 45 exclude 31 minor minerals.



*In continuation with the tradition, the Indian Bureau of Mines celebrated Shivaji Jayanti under the aegis of Shri Chatrapati Shivaji Maharaj Jayanti Utsav Samiti, IBM on 23 Feb, 2017. Shri Sridharji Gadge of VNIT, Nagpur graced the occasion as chief guest.*

*The CG In-charge Shri Ranjan Sahai and Sridharji Gadge offered floral tributes to the portrait of Shivaji Maharaj and lighted the lamp to inaugurate the programme. In their speech, the chief guests called for inculcating the patriotic values of Shivaji Maharaj. Shri Parag M Tadlimbekar and Smt. Vairagare, office-bearers of the Shri Chatrapati Shivaji Maharaj Utsav Samiti were present on the occasion. The officers and staff of IBM were present.*

## MEETINGS ATTENDED

- Shri Ranjan Sahai, Controller General In-charge (i) attended CGPB meeting in the Ministry of Mines, New Delhi on 9 & 10 Feb, 2017; (ii) attended 2<sup>nd</sup> National Conclave of Mines & Minerals at New Delhi along with divisional and regional heads of IBM on 15 Feb, 2017; (iii) attended Standing Committee meet on Coal & Steel – oral evidence by the representative of the Ministry of Mines in connection with examination of demands for grants (2017-18) at New Delhi on 21 Feb, 2017; (iv) attended 4<sup>th</sup> meeting of NMET executive committee, at New Delhi on 21 Feb, 2017; (v) Chaired the meeting with QP of Kolkata regional on 26 Feb, 2017; (vi) attended Review meeting under the chairmanship of Hon'ble Minister (Independent Charge) regarding installation of roof top solar power project, moving towards cashless transaction, Swachha Bharat Mission; Digital India; Status of Parliamentary Rule 377 cases; Implementation of e-tag facility; Skill Development in the mining sector at New Delhi on 27 Feb, 2017; (vii) Attended NRSC meeting at Hyderabad on 6 March, 2017 along with Shri J.R. Chaudhary, COM (SZ) and held discussions with officers and staff of Hyderabad Regional Office; (viii) attended a meeting with officials of M/s Salgaonkar and M/s Chougule & CO. during 17-18, March at Goa; attended a meeting with representatives of Goa Mineral Ore & Exporter Association on 21 March, 2017; attended meeting with officers of Jabalpur Regional office on 25 March, 2017; visited AKS University, Satna and addressed faculty members of university including executives of mines on 27 March, 2017.

- Shri K. Thomas, DDG, Shri Saji George, Director(S), Shri Junaid Farooqui Director (S) attended 24<sup>th</sup> Conference of Central & State Statistical Organisations (COCSO) held at Nagpur during 19-20 Jan, 2017.

- Dr. P.K. Jain, CME, (i) attended a meeting on 2 Feb, 2017 at New Delhi to discuss the issues of fixing of the average sale price of metallurgical grade bauxite under the chairmanship of Shri R. Sridharan, Special Secretary, Ministry of Mines, New Delhi and representatives of DGM, Chhattisgarh, NALCO, BALCO, HINDALCO and Vedanta; (ii) attended 2<sup>nd</sup> Mining Conclave for Mines & Minerals on 15 Feb, 2017 at Hotel Ashoka, New Delhi; (iii) attended a meeting of Inter-Divisional Committee as Member Secretary Constituted by CG, IBM to standardise the mineral names in various databases at Nagpur, on 20 March, 2017.

- Shri P.N. Sharma, TS & RCOM attended meeting with Shri Prithul Kumar, Director, Ministry of Mines on 15 March, 2017 at New Delhi regarding setting up of a pavilion of Ministry of Mines at India Steel 2017, 3<sup>rd</sup> International Exhibition & Conference on Steel Industry held during 20-22 April 2017 at Mumbai.

## AT BHUBANESHWAR

### 25<sup>th</sup> Annual IBM Sports meet held

The 25th Annual Sports Meet for IBM employees was organised during 10-12<sup>th</sup> January, 2017 at Bhubaneshwar. Shri Ranjan Sahai, CG In-charge, then CCOM and now CG In-charge, IBM, who is also the Chairman of the Annual Sports meet Organising Committee hoisted the flag at the inaugural session of the Sports meet. Shri Ananta Kishore Jena, OAS (SAG), Director of Sports cum Additional Secretary was the guest of Honour for the inaugural programme. Shri Harkesh Meena, RCOM, Bhubaneshwar and senior officers from IBM HQ were present.

The IBM Sports Meet is organised every year in order to develop a sense for physical fitness and team spirit among the employees of the Bureau. The three-day meet witnessed good participation from the employees and officers of IBM. Events like Volleyball, Badminton, Chess, Table Tennis, Athletics etc. were conducted. The officials – both young and veterans – took part in the event enthusiastically and won several accolades.

Shri R.K. Sinha, CG In-charge gave away the awards to the winners in various categories during the valedictory of the programme. Shri A.B. Panigrahi, COM (CZ), Shri Harkesh Meena were present.



Shri Ranjan Sahai (second from right), CG In-charge at the inauguration of the 25<sup>th</sup> Annual Sports Meet of IBM in Bhubaneshwar, Odisha. Shri Harkesh Meena, RCOM, Bhubaneshwar and Shri Ananta Kishore Jena, OAS (SAG), Director of Sports are seen.



Shri Ranjan Sahai addressing the gathering at a programme organised to mark the International Women's Day at IBM HQ in Nagpur. Smt. Indira Ravindran, Director (MP Division), Dr. Parineeta Fuke, Councillor, Nagpur Municipal Corporation and Dr. Pratibha Sahai are seen.

### WOMEN POWER

## International Women's Day observed

The Indian Bureau of Mines observed the Annual International Women's Day at a function organised at the IBM Headquarters, Nagpur on 15 March, 2017. Dr. Parineeta Fuke, Director, Hillfort School and Councillor, Nagpur Municipal Corporation was the chief guest. Dr. Partibha Sahai was the guest of honour, while Shri Ranjan Sahai, CG In-charge presided over the function.

The dignitaries on the dais shared their thoughts on the theme, "Be Bold for Change". Girl students from Blind School who rendered a welcome song were

felicitated on the occasion. The women officers and staff of the department participated in the programme.

### Haldi Kum Kum event

The IBM Recreation Club organised Haldi Kum Kum programme for women employees to observe Makara Sankranti at IBM HQ on 3 Feb, 2017. The event comprised of number of competitions for the participants. The prizes to the winners will be given at the Annual function of the Recreation Club.

### RAJBHASHA AWARDS



Shri Kalyan Singh, Hon'ble Governor of Rajasthan bestowing the Rajbhasha awards upon Udaipur Regional office and Goa Regional office of IBM at the Official Language Conference for Central and Western Region award function organised at Udaipur, Rajasthan on 30 Jan 2017. Shri T.K. Rath, Controller of Mines, Udaipur Region received the award for Udaipur office, while Dr. Y.G. Kale, RCOM, Goa received the award on behalf of IBM Goa office.

### Appointments

Shri Santosh Pani as Assistant Ore Dressing Officer w.e.f. 12.1.2017

Shri Subhra Kumar Paul as Chemist w.e.f. 23.1.2017

Shri Abhay Agrawal as Regional Controller of Mines w.e.f. 22.3.2017

Shri Babulal Gurjar as Regional Controller of Mines w.e.f. 22.3.2017

### Promotions

Shri D.L. Tijare as DODO w.e.f. 24.2.2017

Shri D.W. Beck as Suptdg. Mineral Economist w.e.f. 20.2.2017

Shri M.G. Raut as Ore Dressing Officer w.e.f. 24.3.2017

### Retirement

Shri R.K. Sinha as Controller General on 31.1.2017

Shri A.B. Panigrahi as Controller of Mines on 31.1.2017

Shri S.S. Gadre as Asstt. Mining Geologist on 31.1.2017

Shri U.K. Bokde as Asstt. Mining Engineer on 31.1.2017

Shri T.H. Banerjee as Deputy Ore Dressing Officer on 31.3.2017

### Transfers

Shri Avneesh Kaushik, AAO from Administration Section, IBM to MP Division, Nagpur w.e.f. 7.3.2017

## SEMINARS AND SYMPOSIA

- Smt Indira Ravindran, Director (OD) and Dr. D.R. Kanungo, SOOD attended the inaugural function of the National Symposium, "Challenges and Strategies in Mineral Exploration and Mining" on Feb, 9, 2017 organised by Gondwana Geological Society & P.G Department of RTM Nagpur University at Nagpur.

- Dr. P.K. Jain, CME, (i) delivered a lecture on Rajbhasha Neeti at Hindi Workshop on 20 March, 2017 at IBM HQ, Nagpur; (ii) attended Conference on Industrial Mineral organised by FIMI during 21-22 February 2017 at Udaipur and presented paper on Industrial Minerals in the ambit of recent reform in mining sector.

- Shri T. Sudhakar T.L., SMG, attended workshop on 3D Architecture: Geophysical Approaches held on 9-10 March 2017 at GSI Training Institute, Hyderabad.

- Dr. A.N. Varma, Sr. Chemist, IBM, Nagpur attended seminar on Technology & Application of Atomic Spectroscopy, AAS, ICP-MS & ICP-TOFMS, organised by M/s Skytech System (India) Pvt. Ltd, Mumbai on 16 Jan, 2017.

# खनिज दिवस



1) खनिज दिवस के अवसर पर 'खनिज रियायत नियम 2016' का विमोचन करते हुए भारतीय भूवैज्ञानिक सर्वेक्षण के महानिदेशक श्री. एम. राजू तथा उपस्थित महात्मा गांधी अंतरराष्ट्रीय हिंदी विश्वविद्यालय, वर्धा के कुलपति प्रो. गिरीश्वर मिश्र, महानियंत्रक प्रभारी श्री. रंजन सहाय, मुख्य खनिज अर्थशास्त्री डॉ. पी.के. जैन तथा कार्यक्रम के संचालक श्री. मुजीब सिंहीकी। 2) कोलकाता कार्यालय में खनिज दिवस के अवसर पर प्रज्ञवलन कर कार्यक्रम का उद्घाटन करते भारतीय खान ब्यूरो के सेवानिवृत्त महानियंत्रक श्री एस.के.चौधुरी तथा उपस्थित सेवानिवृत्त कनिष्ठ खनन भूवैज्ञानी श्री एम.जी.भट्टाचार्य, कार्यालय अध्यक्ष श्री बी.पी.केरकेट्टा एवं अन्य। 3) अजमेर कार्यालय में खनिज दिवस समारोह में उपस्थित सेवानिवृत्त खान नियंत्रक श्री बी.सी.मिश्रा, क्षेत्रीय खान नियंत्रक श्री बी.ए.ल.कोटडीवाला, क्षेत्रीय खनिज प्रसंस्करण प्रयोगशाला के अधीक्षण अधिकारी श्री वसवराज करडकल व वरिष्ठ खनन भूवैज्ञानी डॉ.ए.जेड.खान।

# खनिज दिवस पर विभिन्न आयोजन

प्रतिवर्षानुसार इस वर्ष भी भारतीय खान ब्यूरो का स्थापना दिवस खनिज दिवस के रूप में मनाया गया। इस अवसर पर भारतीय खान ब्यूरो मुख्यालय सहित अन्य क्षेत्रीय तथा उप-क्षेत्रीय कार्यालय में विभिन्न आयोजन किए गए। जिसमें कार्यालय के अधिकारियों एवं कर्मचारियों ने बढ़-चढ़कर हिस्सा लिया।

**अजमेर क्षेत्रीय कार्यालय** . अजमेर क्षेत्रीय कार्यालय एवं क्षेत्रीय खनिज प्रसंस्करण प्रयोगशाला ने संयुक्त रूप से 1 मार्च 2017 को 70वाँ स्थापना दिवस मनाया।

नसीराबाद रोड स्थित भारतीय खान ब्यूरो के मुख्य भवन परिसर में पूर्वाह्न 11 बजे सेवानिवृत्त खान नियंत्रक श्री बी.सी.मिश्र के विशिष्ट अतिथि में विभिन्न कार्यक्रम आयोजित किए गए। इस अवसर पर मंच पर क्षेत्रीय खान नियंत्रक श्री बी.ए.ल.कोटडीवाला, क्षेत्रीय खनिज प्रसंस्करण

प्रयोगशाला के अधीक्षण अधिकारी श्री बसवराज करडकल, वरिष्ठ खनन भूवैज्ञानी डॉ.ए.जेड.खान उपस्थित थे।

स्वागत भाषण में डॉ.खान ने सभी आगुंतकों का स्वागत किया। तत्पश्चात विभाग से सेवानिवृत्त कर्मचारियों को श्री बी.ए.ल.कोटडीवाला ने स्मृति चिन्ह देकर सम्मानित किया। समारोह के दौरान श्री कोटडीवाला द्वारा विभाग के संबंध में सन् 1948 से अभी तक की उपलब्धियों, उद्देश्य, दायित एवं क्रमिक विकास की जानकारी प्रदान की गई। श्री करडकल ने प्रयोगशाला के कार्य एवं विकास की जानकारी दी। सेवानिवृत्त खान नियंत्रक श्री बी.सी.मिश्र ने अपने अनुभव सभी से बाटे। इस अवसर पर ईडीएस टेक्नोलॉजी के प्रतिनिधियों ने खनन आंकड़ों के त्वरित विश्लेषण संबंधी सॉफ्टवेयर की जानकारी दी। कार्यक्रम के दौरान श्री बी.वी.आर.मूर्ति, स.अ.प्र.अ. द्वारा प्रश्नोत्तरी का आयोजन किया गया। मंच संचालन अधीक्षक श्री बी.के.अरोड़ा ने किया।

**कोलकाता क्षेत्रीय कार्यालय**— कोलकाता क्षेत्रीय कार्यालय में 1 मार्च खनिज दिवस के रूप में मनाया गया। इस अवसर पर भारतीय खान ब्यूरो के सेवानिवृत्त महानियंत्रक श्री एस.के.चौधुरी ने दीप प्रज्ञवलित कर खनिज दिवस का शुभारंभ किया। इस अवसर पर सेवानिवृत्त कनिष्ठ खनन भूवैज्ञानी श्री एम.जी.भट्टाचार्य प्रमुखता से उपस्थित थे। कार्यक्रम के दौरान उपस्थित पदाधिकारियों एवं कार्यालय की सुरक्षा में तैनात कर्मचारियों को खनिज दिवस के अवसर पर बैज पहनाया गया। तत्पश्चात कार्यालय अध्यक्ष श्री बी.पी.केरकेट्टा ने खनिज दिवस के आयोजन के संबंध में सभी को जानकारी दी।

प्रथम सत्र में तकनीकी चर्चा का आयोजन किया गया। जिसमें कार्यालय के सभी पदाधिकारियों सहित खनन गतिविधियों से जुड़े प्रतिनिधि हिन्दुस्तान कॉपर लि. के मुख्य प्रबंधक श्री अमित सरकार, टाटा स्टील के श्री अमय चौधुरी, रुंगटा मार्टिन्स लि. के महाप्रबंधक श्री सुजयबोस, आर.एम.डी.सेल के श्री एम.श्रीनिवास, श्री अशोक कुमार सरकार तथा

# हिंदी कार्यशाला में गृह पत्रिका “प्रयास” का विमोचन

गोवा क्षेत्रीय कार्यालय में राजभाषा नीति के क्रियान्वयन में 20 मार्च 2017 को एक दिवसीय राजभाषा हिंदी कार्यशाला का आयोजन किया गया। इस समारोह में महानियंत्रक श्री रंजन सहाय ने मुख्य अतिथि के रूप में समारोह को सुशोभित किया। कार्यक्रम की अध्यक्षता क्षेत्रीय खान नियंत्रक डॉ. वाई. जी. काले ने की। कार्यक्रम में गोवा कार्यालय की राजभाषा हिंदी गृह पत्रिका “प्रयास” के दसवें अंक का विमोचन महानियंत्रक श्री रंजन सहाय के करकमलों से हुआ।

हिंदी संपर्क अधिकारी एवं वरिष्ठ सहायक खान नियंत्रक श्री जी. राम ने अपने स्वागत भाषण में गृह पत्रिका “प्रयास” के आरंभिक अंक से दसवें अंक तक के सफर पर प्रकाश डाला तथा कार्यालय में हिंदी के प्रगामी प्रयोग को बढ़ाने एवं कार्मिकों एवं उनके परिजनों की रचनात्मकता को प्रेरित करने में इस पत्रिका की भूमिका को उजागर किया। श्री जी. राम ने गोवा क्षेत्रीय कार्यालय के तब के क्षेत्रीय खान नियंत्रक के रूप में इस पत्रिका को प्रारंभ करने वाले और इसका सार्थक नाम “प्रयास” रखने के लिए मुख्य अतिथि श्री रंजन सहाय, की भूरी-भूरी प्रशंसा की।

इस मौके पर अपने अध्यक्षीय संबोधन में डॉ. वाई. जी. काले ने कहा कि यह बेहद सुखद एवं ऐतिहासिक अवसर है जब महानियंत्रक महोदय, जिनका यह कार्यालय कर्म स्थल रहा है तथा जिनके कर्मठ करकमलों से “प्रयास” का आद्य अंक आरंभ हुआ था उन्हीं के द्वारा इस दशम अंक का अनावरण हो रहा है। अंत में डॉ. वाई. जी. काले ने महानियंत्रक महोदय के प्रति हार्दिक कृतज्ञता व्यक्त की, जिन्होंने अति व्यस्तता के बावजूद अपनी उपरिधि से इस समारोह को गरिमा प्रदान की साथ ही उन्होंने कार्यालय के कार्मिकों, उनके परिजनों तथा अपने वरिष्ठ अधिकारियों के प्रति भी आभार अभिव्यक्त किया जिनका प्रत्यक्ष अथवा परोक्ष सहयोग प्रयास के 10वें अंक के प्रकाशन में रहा है। हिंदी कार्यशाला का भरपूर लाभ उठाने के आव्हान के साथ अध्यक्षीय संबोधन संपन्न हुआ।

### पृष्ठ 22 से

श्री अरुनवा बनर्जी उपस्थित थे।

सेवानिवृत् महानियंत्रक श्री चौधुरी ने व्यूरो के स्थापन से लेकर इसके सतत विकास तथा इसकी कार्यप्रणाली एवं गतिविधियों के संबंध में विस्तृत चर्चा की। पूर्व कनिष्ठ खनन भूवैज्ञानी श्री भट्टाचार्या ने पावर प्लाइंट के माध्यम से वर्तमान सहस्राब्दि में विकासशील खनन नेतृत्व की आवश्यकता पर अपना व्याख्यान प्रस्तुत किया। उन्होंने अपने व्याख्यान में नेतृत्व के लिए आवश्यक पांच तत्वों को समाहित करते हुए नेतृत्व के लिए आवश्यक कुशलताओं पर चर्चा की।

मध्याह्न भोजन के पश्चात स्वास्थ्य जांच संबंधी शिविर का आयोजन किया गया। जिसमें डॉ. मृत्युंजय साहा, डी.एम.एस., एफ.डब्ल्यू.टी.(कोल) तथा हर्बल लाईफ के न्यूट्रीशियन



गोवा क्षेत्रीय कार्यालय की राजभाषा हिंदी गृह पत्रिका “प्रयास” के दसवें अंक का विमोचन करते हुए महानियंत्रक श्री रंजन सहाय, क्षेत्रीय खान नियंत्रक डॉ. वाई. जी. काले तथा अन्य अधिकारी।

**मुख्य अतिथि श्री रंजन सहाय** ने अपने संबोधन में “प्रयास” की सराहना की। उन्होंने कहा कि खनन निगरानी तंत्र को प्रदर्शित करता हुआ पत्रिका का मुख्य पृष्ठ, छाया चित्रों के द्वारा प्रदर्शित कार्यालय के वर्ष भर की गतिविधियाँ उपलब्धियाँ और स्तरीय आलेखों से परिपूर्ण “प्रयास” का यह अंक दर्शनीय, पठनीय और प्रभावोत्पादक है। हिंदी कार्यशाला के उद्घाटनकर्ता के रूप में हिंदी के महत्व पर प्रकाश डालते हुए मुख्य अतिथि श्री सहाय ने बताया कि देश की एकता—अखंडता को बल देने वाली जन संपर्क की भाषा हिंदी अब व्यवसाय की प्रभावकारी भाषा बन अपना त्वरित विकास कर रही है और गोवा क्षेत्रीय कार्यालय हिंदी का अधिक से अधिक प्रयोग कर इसके विकास में सहभागी बन रहा है जिसकी सराहना राजभाषा विभाग पुरस्कार प्रदान करके कर रहा है।

मुख्य अतिथि श्री रंजन सहाय ने अपने संबोधन में “प्रयास” की सराहना की। उन्होंने कहा कि खनन निगरानी तंत्र को प्रदर्शित करता हुआ पत्रिका का मुख्य पृष्ठ, छाया चित्रों के द्वारा प्रदर्शित कार्यालय के वर्ष भर की गतिविधियाँ उपलब्धियाँ और स्तरीय आलेखों से परिपूर्ण “प्रयास” का यह अंक दर्शनीय, पठनीय और प्रभावोत्पादक है। हिंदी कार्यशाला के उद्घाटनकर्ता के रूप में हिंदी के महत्व पर प्रकाश डालते हुए मुख्य अतिथि श्री सहाय ने

बताया कि देश की एकता—अखंडता को बल देने वाली जन संपर्क की भाषा हिंदी अब व्यवसाय की प्रभावकारी भाषा बन अपना त्वरित विकास कर रही है और गोवा क्षेत्रीय कार्यालय हिंदी का अधिक से अधिक प्रयोग कर इसके विकास में सहभागी बन रहा है जिसकी सराहना राजभाषा विभाग पुरस्कार प्रदान करके कर रहा है।

उप खान नियंत्रक श्री प्रेम प्रकाश के धन्यवाद ज्ञापन के साथ समारोह की समाप्ति हुई।

**कन्सलेटेंट एवं वेट मैनेजमेंट कोच श्री प्रवीण कुमार** ने अधिकारियों एवं कर्मचारियों का स्वास्थ्य परीक्षण किया।

तत्पश्चात कोटक लाईफ इनश्योरेन्स कंपनी के उप प्रबंधक श्री सैकत चौधरी एवं श्री विजय कुमार सिंह ने स्वास्थ्य बीमा तथा जीवन बीमा संबंधी जानकारी दी। पश्चात टाटा स्टील के श्री अभय चौधरी ने खान मॉनिटरिंग में ड्रोन के उपयोग पर तथा आरएमडी सेल के श्री एम श्रीनिवास ने पूर्णपानी लाइमस्टोन डोलोमाईट खान के संदर्भ में सतत विकास पर चर्चा की। इस अवसर पर श्री अरुनवा बनर्जी ने भी व्याख्यान दिया। सभा के समाप्त में उपस्थित अतिथियों को स्मृति चिन्ह दिया गया। धन्यवाद ज्ञापन के साथ कार्यक्रम का सफल समाप्त हुआ।

**देहरादून क्षेत्रीय कार्यालय**— हर वर्ष की भाँति देहरादून कार्यालय ने मुख्यालय के निर्देशानुसार 1 मार्च 2017 को भारतीय खान व्यूरो के स्थापना दिवस को खनिज दिवस के रूप में मनाया। इस अवसर पर भारतीय खान व्यूरो से अवकाश प्राप्त अधिकारियों/कर्मचारियों एवं खनन उद्योग से जुड़े व्यक्तियों को आमंत्रित किया गया। कार्यक्रम सहायक खान नियंत्रक श्री डी.आर.गुर्जर तथा सहायक खनन भूवैज्ञानिक श्री शैलेन्द्र सकलानी मंच पर उपस्थित थे। श्री डी.आर.गुर्जर ने भारतीय खान व्यूरो की प्रमुख गतिविधियों पर विस्तृत रूप से प्रकाश डाला एवं कार्यक्रम की अध्यक्षता करते हुए आज के परिषेक्ष्य में वैज्ञानिक रूप से माइनिंग गतिविधियों के लाभ के बारे में विस्तृत जानकारी दी।

# हिंदी संबंधी कार्य की विशिष्टियाँ

भारतीय खान ब्यूरो का हिंदी अनुभाग सरकारी कामकाज में हिंदी को अधिक उपयोग में लाने के लिए हमेशा प्रयासरत रहा है। जनवरी 2017 से मार्च 2017 के दौरान हिंदी अनुभाग द्वारा विभिन्न गतिविधियों का आयोजन किया गया।

1. भारतीय खान ब्यूरो (मुख्यालय), नागपुर में अगस्त 2016 से जनवरी 2017 हिंदी टंकण प्रशिक्षण का आयोजन किया गया। इसकी परीक्षा जनवरी 2017 में भारतीय खान ब्यूरो परीक्षा केंद्र पर संपन्न हुई एवं कुल 12 प्रशिक्षितर्थीयों में से 11 प्रतिभागियों ने परीक्षा उत्तीर्ण की। टंकण प्रशिक्षण हेतु अनुदेशक के रूप में हिंदी विभाग के आशु—। श्री जगदीश अहरवार को नामित किया गया था। उन्होंने छः महीने तक प्रतिभागियों को हिंदी टंकण में प्रशिक्षित करने के लिए अथक प्रयास किया। उक्त हिंदी टंकण प्रशिक्षण की वजह से प्रतिभागियों को दैनिक कार्य में लाभ हुआ तथा राजभाषा हिंदी संबंधी कार्य वे अब सुचारू रूप से कर पा रहे हैं।

2. मुख्यालय में 21 मार्च, 2017 से 22 मार्च, 2017 तक दो अर्द्ध दिवसीय हिंदी कार्यशाला का आयोजन किया गया जिसमें 20 अधिकारियों एवं कर्मचारियों ने भाग लिया। हिंदी कार्यशाला का उद्घाटन करते हुए मुख्य खनिज अर्थशास्त्री एवं राजभाषा अधिकारी डॉ. पी. के. जैन ने हिंदी कार्यशाला की उपयोगिता की जानकारी प्रतिभागियों को दी। उक्त हिंदी कार्यशाला में चार व्याख्यान दिए गए। व्याख्यान के विषय थे (1) राजभाषा नीति (2) राष्ट्रीय खनिज सूची का महत्व, (3) हिंदी – अंग्रेजी वाक्य संरचना तथा (4) मानक शब्दावली। 'राजभाषा नीति' विषय पर व्याख्यान डॉ. पी. के. जैन द्वारा दिया गया। खनिज अर्थशास्त्री श्री सी. एस. तिवारी ने 'राष्ट्रीय खनिज सूची का महत्व' विषय पर व्याख्यान दिया।

'हिंदी – अंग्रेजी वाक्य संरचना' विषय पर व्याख्यान उप निदेशक (राजभाषा) श्री प्रमोद एस. सांगोले ने दिया तथा प्रतिभागियों को अभ्यास कराया। हिंदी अनुवादक श्री असीम कुमार ने 'मानक एवं पारिभाषिक शब्दावली' पर व्याख्यान दिया तथा इसका अभ्यास कराया। उक्त हिंदी कार्यशाला से सभी प्रतिभागी लाभान्वित हुए।

3. हिंदी मूल टिप्पण आलेखन प्रोत्साहन पुरस्कार योजना में वर्ष 2015–16 के लिए 11 कार्यालयों के कुल 43 कर्मिकों ने भाग लिया एवं सभी को पुरस्कृत किया। उक्त प्रोत्साहन पुरस्कार योजना में भाग लेने वाले प्रतिभागियों में मुख्यालय, नागपुर से पाँच, खनिज प्रसंस्करण प्रभाग, नागपुर(4), क्षेत्रीय कार्यालय, उदयपुर(3), खनिज प्रसंस्करण प्रभाग, अजमेर (4), क्षेत्रीय कार्यालय, अजमेर(5), क्षेत्रीय कार्यालय, देहरादून (6), क्षेत्रीय कार्यालय, बैंगलुरु (3), क्षेत्रीय कार्यालय, गोवा (4), क्षेत्रीय कार्यालय, हैदराबाद (4), क्षेत्रीय कार्यालय, गुवाहाटी (1) तथा आंचलिक कार्यालय, बैंगलुरु से 4 प्रतिभागी समिलित हुए। उक्त प्रतिभागियों को प्रथम, द्वितीय तथा तृतीय पुरस्कार स्वरूप क्रमशः रु. 5000/-, रु. 3000/- तथा रु. 2000/- दिए गए।

4. खान मंत्रालय द्वारा खनन एवं खनिज तकनीकी शब्दावली का निर्माण किया जा रहा है। इसके लिए खान मंत्रालय के अधीन सभी विभागों से उनसे संबंधित तकनीकी शब्द भेजने का अनुरोध किया गया था। जिसके लिए भारतीय खान ब्यूरो में महानियंत्रक श्री रंजन सहाय की अध्यक्षता में एक



कार्यालय समिति की की 101 वीं बैठक में उपस्थितों को संबोधित करते हुए महानियंत्रक श्री रंजन सहाय तथा उपस्थित राजभाषा अधिकारी एवं मुख्य खनिज अर्थशास्त्री डॉ. पी.के.जैन।

**मुख्यालय में 21 मार्च, 2017 से 22 मार्च, 2017 तक दो अर्द्ध दिवसीय हिंदी कार्यशाला का आयोजन किया गया** जिसमें 20 अधिकारियों एवं कर्मचारियों ने भाग लिया। हिंदी कार्यशाला का उद्घाटन करते हुए मुख्य खनिज अर्थशास्त्री एवं राजभाषा अधिकारी डॉ. पी. के. जैन ने हिंदी कार्यशाला की उपयोगिता की जानकारी प्रतिभागियों को दी।

समिति गठित की गई जिसके सदस्य इस प्रकार हैं – डॉ. पी. के. जैन, मुख्य खनिज अर्थशास्त्री, सदस्य सचिव, स द र य गण – श्री अभय अग्रवाल, क्षेत्रीय खान नियंत्रक, श्री सी. एस. तिवारी, खनिज अर्थशास्त्री, श्री जुनैद फारूकी, निदेशक (सांस्थिकी), श्री ए. डी. गुप्ता, सहायक खनन भूविज्ञानी, श्री प्रमोद एस सांगोले, उप निदेशक (राजभाषा), श्री जे. पी. मिश्रा, सहायक अनुसंधान अधिकारी।

उक्त समिति द्वारा शब्दावली निर्माण के संबंध में अनेक बैठकें आयोजित की गई तथा खनन एवं खनिज तथा भारतीय खान ब्यूरो से संबंधित करीब पन्द्रह सौ तकनीकी शब्दों का चयन एवं संकलन किया गया तथा खान मंत्रालय को प्रेषित किया गया। उक्त शब्दों का चयन एवं संकलन मुख्य खनिज अर्थशास्त्री – सदस्य सचिव डॉ. पी. के. जैन के मार्गनिर्देशन में किया गया। इस प्रकार खान मंत्रालय द्वारा खनन एवं खनिज तकनीकी शब्दावली के निर्माण में भारतीय खान ब्यूरो ने अपना महत्वपूर्ण योगदान दिया है।

**अनुवाद कार्य – मुख्यालय स्थित प्रभागों/अनुभागों से अनुवाद के लिए प्राप्त 95 सामग्री/पत्रों/दस्तावेजों का अनुवाद कर यथासमय प्रस्तुत किया गया। भारतीय खान ब्यूरो के तकनीकी सचिव से प्राप्त आउट कम बजट 2017–18 रिपोर्ट की 50 पृष्ठों को हिंदी अनुवाद एवं हिंदी टंकण कर प्रेषित किया गया। अर्थशास्त्र प्रभाग से प्राप्त 35 पृष्ठों की सामग्री को हिंदी अनुवाद एवं टंकण किया गया।**

**कार्यालय समिति की बैठक – 31 मार्च 2017 को महानियंत्रक श्री रंजन सहाय की अध्यक्षता में विभागीय राजभाषा कार्यालयन समिति की 101 वीं बैठक आयोजित की गई। इस बैठक में पिछली बैठक की कार्रवाई की पुष्टि की गई तथा साथ ही अन्य महत्वपूर्ण विषयों जैसे – हिंदी प्रगति रिपोर्ट की समीक्षा और अखिल भारतीय स्तर पर राजभाषा तकनीकी सेमिनार के आयोजन पर विचार-विमर्श किया गया।**

# गोवा को मिला प्रथम पुरस्कार

भारतीय खान ब्यूरो के गोवा क्षेत्रीय कार्यालय को 'ग' क्षेत्र के लिए वर्ष 2015–16 में हिंदी के उत्कर्ष कार्य निष्पादन हेतु सरकारी कार्यालय की श्रेणी में (50 से कम कर्मचारी) में प्रथम पुरस्कार प्रदान किया गया। 30 जनवरी 2017 को उदयपुर में संपन्न मध्य तथा पश्चिम क्षेत्रों के राजभाषा सम्मेलन में राजस्थान के महामहीम राज्यपाल श्री.कल्याण सिंह के करकमलों से क्षेत्रीय खान नियंत्रक डॉ. योगेश काले ने यह पुरस्कार प्राप्त किया।

भारतीय खान ब्यूरो के उदयपुर क्षेत्रीय कार्यालय को 'क' क्षेत्र के लिए वर्ष 2015–16 में हिंदी के उत्कर्ष कार्य निष्पादन हेतु सरकारी कार्यालय की श्रेणी में तृतीय पुरस्कार प्रदान किया गया। यह पुरस्कार दिनांक 30 जनवरी 2017 को उदयपुर में संपन्न मध्य तथा पश्चिम क्षेत्रों के राजभाषा सम्मेलन में राजस्थान के महामहीम राज्यपाल श्री.कल्याण सिंह के करकमलों से खान नियंत्रक श्री.टी.के.रथ को प्रदान किया गया।

# बैंगलूरु में आयोजित हुई एक दिवसीय कार्यशाला

भारत सरकार की राजभाषा नीति एवं वार्षिक कार्यक्रम अनुसार बैंगलूरु के आंचलिक कार्यालय, क्षेत्रीय कार्यालय एवं क्षेत्रीय अयस्क प्रसाधन प्रयोगशाला में संयुक्त रूप से 24 मार्च 2017 को एक दिवसीय हिंदी कार्यशाला का आयोजन किया गया।

कार्यशाला का शुभारंभ खान नियंत्रक (द.अ.) श्री जे.आर. चौधरी के हस्ते किया गया। इस अवसर पर क्षेत्रीय खनन भूविज्ञानी डॉ.ए.एन.मूर्ति, उप अयस्क प्रसाधन अधिकारी एवं क्षेत्रीय खनिज प्रसंस्करण प्रयोगशाला के प्रभारी श्री डी.यू.मून, क्षेत्रीय कार्यालय बैंगलूरु के उप खान नियंत्रक एवं प्रभारी श्री सी.परमेश्वरन, वरिष्ठ रसायनविद श्री डी.वी.मून, वरिष्ठ खनन भूविज्ञानी एवं कार्यालय अध्यक्ष श्री प्रशांत होगडे भी उपस्थित थे। उप खान नियंत्रक एवं हिंदी संपर्क अधिकारी श्री पुखराज नेणिवाल ने कार्यशाला की विस्तृत रूपरेखा प्रस्तुत की। एक दिवसीय कार्यशाला में हिंदी, प्रशासन एवं तकनीकी विषयों के कुल चार व्याख्यान रखे गए। कार्यशाला के प्रथम सत्र में श्री पुखराज नेणिवाल ने राजभाषा, राष्ट्रभाषा और हिंदी संपर्क भाषा के बारे में विस्तार से बताया। हिंदी संपर्क अधिकारी ने इस अवसर पर क्षेत्रीय खनिज प्रसंस्करण प्रयोगशाला के बारे में विस्तार से बताया। भारतीय खान ब्यूरो के अधिकारी ने इस अवसर पर नामित किए गए सभी प्रतिभागियों को सरल और सुवेद हिंदी का प्रयोग करने पर बल दिया जिससे उनकी जिज्ञासा दूर हो सके। उन्होंने इस अवसर पर पावर पॉइंट के माध्यम से राजभाषा नीति की जानकारी भी दी। कार्यशाला के दूसरे सत्र में श्री डी.यू.मून ने प्रयोगशाला में उपलब्ध सुविधाओं एवं क्षमताओं के बारे में प्रभावशाली ढंग से सभी प्रतिभागियों को अवगत कराया। कार्यशाला के दूसरे चरण के प्रथम सत्र में श्री डी.वी.मून ने हिंदी कार्यशाला में नामित सभी प्रतिभागियों को अयस्क एवं खनिजों के रासायनिक विश्लेषण के बारे में तथ्यपरक जानकारी दी। इस एक दिवसीय कार्यशाला के अंतिम सत्र में श्री जे.आर.चौधरी, खान नियंत्रक (द.अ.) ने सरकारी कामकाज में प्रयोग में आने वाली व्यावहारिक हिंदी को सरल बनाकर कैसे रोजमर्स दैनिक कार्यालयीन कार्यों में उपयोग में लाना है, उस पर प्रकाश डाला। इस एक दिवसीय पूर्ण कार्यशाला में कुल सात कर्मचारियों को प्रशिक्षित किया गया।