3rd NATIONAL CONCLAVE ON MINES & MINERALS A SUCCESS
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Shri Navjot Singh Sidhu, Chairman of Cabinet Sub Committee on Mining of Punjab and Minister of Local Government, Tourism, Cultural Affairs, Archives and Museums, Punjab held a meeting with Shri Anil Mukim, Secretary (Mines), Dr. N.K. Singh, JS (Mines) & CG (I/c) and Shri Prithul Kumar, Director. He discussed threadbare various aspects of mining policy during his visit to the Ministry of Mines in New Delhi.
At the outset, I extend a warm greeting to Shri Anil Gopishankar Mukim on being appointed the Secretary (Mines). His association with the Mines Ministry brings three and half decades of bureaucratic experience and his valuable insights to the policy initiatives in Mineral sector.

The issuing of Gazette notification for the Creation, Abolition and Up-gradation of posts under various disciplines of IBM on 15 May, 2018 has augured well for IBM, the premier technical regulator of Indian mineral sector. It comes after six years of churning of the Report of the Committee constituted to Review and Restructure the Functions and Roles of IBM in terms of the policy directions given in the National Mineral Policy and MMDR Act and Rules framed thereunder. The Committee was constituted in 2009 and submitted its report to the Government of India on 4 May, 2012. It recommended creation of 933 posts in addition to existing strength of IBM. However, in the wake of significant changes in the legislative framework by the Government, the Ministry optimized the proposal without considering increase in sanctioned strength (1477) and finalised the proposal keeping expenditure neutral.

The Bureau and the Mines Ministry are in action to see to it that the Recruitment Rules for various disciplines are finalised soon to begin filling the vacant and additional posts in a phased manner. An enormous task and challenge lay before the Bureau to deliver to the expectations of the Government and Mines & Mineral sector which I believe team IBM will start to accomplish sooner. The adoption of IT and Space technology would be a key feature of the restructuring, enabling IBM effectively discharge its function to help reform mineral sector.

The phase-I module of Mining Tenement System and the MTS portal was launched in New Delhi on 20 March 2018 and will soon be operational with the integration of PMKKKY and of subsequent phases shortly. The Bureau also chipped in its service along with WAPCOS in releasing the Sand Mining Framework to help States prepare Sand Mining policy. The States should be able to fix the issues with Sand Mining by way of adopting best model available from the Framework. Also, at the Mining Ministers’ Conference held at Panjim, Goa in January this year, several States showed interest in adopting the MSS model for minor minerals. The Mines Ministry, through the Bureau shall soon come out with a mechanism to integrate minor minerals with MSS portal, which hitherto looked into curbing illegal mining of major minerals.

The Bureau has almost completed the updating of the list of mining leases expiring in 2020 and would soon work on laying a detailed roadmap for the auction of expiring leases nationwide.
production & employment generation and exploring alternatives to the use of sand in construction.

Earlier, Shri Arun Kumar, then Secretary (Mines) welcomed the dignitaries, senior leaders from industry and participants. He appraised the gathering about the major initiatives being carried out under the Ministry and said the number of future auctions saw a spike due to suitable amendments done in Mineral Auction Rules. In his address, Dr Rajeshwar Rao, Additional Secretary (Mines) gave an overview on the Star Rating of Mines and said many countries showed keen interest in adopting the model. On the occasion, Honble ministers awarded the top 25 five star rated mines. The representatives of these mines were felicitated with a shield. In all, 57 mines were rated as 5 star under the Star Rating of Mines. Shri Tomar also launched the PMKKKY after its integration with the District Mineral Foundation and launched Phase-I module of Mining Tenement System. Dr N.K. Singh, Joint Secretary (Mines) gave an overview on the MTS. Secretary (Mines) designate and OSD Anil G. Mukim was present. Shri Ranjan Sahai, then CG, IBM, Smt Indira Ravindran, Director (OD), IBM, Dr P.K. Jain, Chief Mineral Economist and other senior officials of Indian Bureau of Mines attended the event. Shri R.K. Sharma, Secretary-General, FIMI extended vote of thanks to dignitaries and participants.

3rd National Conclave on Mines & Minerals a success
57 mines awarded 5-star rating, PMKKKY portal launched

Shri Narendra Singh Tomar, Hon’ble Union Minister of Rural Development and Mines inaugurated 3rd National Conclave on Mines & Minerals at Hotel Ashok in New Delhi on 20 March, 2018. Shri Haribhai Parthibai Chaudhary, Hon’ble Minister of State for Mines and senior officials of the Mines Ministry accompanied the Minister at the event.

In his address, Shri Tomar highlighted the importance of contribution of mining sector to the GDP and in employment generation. The Government made all efforts for expediting the auctions through amendments in the Auction rules and bringing transparency in awarding the mineral concessions. He stressed on the importance of Pradhan Mantri Khanij Kshetra Kalyan Yojana (PMKKKY) and its objectives for achieving inclusive growth of mining-affected people. He lauded the organising of 3rd Mining Conclave involving all stakeholders of mineral sector.

On the occasion, Hon’ble Union Minister of State for Mines, Shri Haribhai Parthibai Chaudhary said Mines Ministry brought accountability, transparency and ease-of-doing business through adoption of technology in its transactions in line with the vision of Hon’ble Prime Minister. The Mining Conclave would deliberate on key issues like simplification of environmental clearances for its expeditious grant, skill development in mining sector, increasing the mineral production & employment generation and exploring alternatives to the use of sand in construction.

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MTS phase-I launched

Hon’ble Union Minister of Rural Development and Mines Shri Narendra Singh Tomar launched the Registration and Returns module Phase-I of Mining Tenement System (MTS) and the MTS portal in New Delhi on the sidelines of 3rd National Conclave on Mines and Minerals held in New Delhi on 20 March, 2018. In a brief overview post launch of the portal, Dr N.K. Singh, Joint Secretary (Mines) said that the MTS would facilitate the capturing of the entire mine life cycle including data regarding mineral concession, royalty, NMET collection and information related to its utilisation etc. The PMKKKY was integrated with District Mineral Foundations (DMFs) where the information regarding collections and utilisation of funds is vital for stakeholders. The portal for MTS will initially cater to Coal/Lignite minerals, non coal minerals and minor minerals, he added.

The MTS is being developed by Indian Bureau of Mines with Wipro Ltd as implementing agency and National Institute of Smart Government (NISG) as Project Management Unit (PMU). MTS would facilitate end-to-end national scale accounting of all the minerals produced in the country from pithead to its end-use, reducing the scope for illegal mining.
Mining ministers discuss key issues

Hon’ble Shri Narendra Singh Tomar, Union Minister of Mines chaired a meeting of the State Mining Ministers at Panjim, Goa on 19 Jan, 2018. The Ministers in-charge of Mining Department from the states of Andhra Pradesh, Chhattisgarh, Madhya Pradesh, Odisha, Tamil Nadu, Uttar Pradesh and Goa attended the meeting. Shri Haribhai Parthibhai Chaudhary, Hon’ble Union Minister of State for Mines was present, while Shri Manohar Parikkar, Hon’ble Chief Minister of Goa was the chief guest.

The conference discussed key issues related to status of mining sector in the Country. In his address, Shri Narendra Singh Tomar said 88 major mineral blocks were notified for auction and 33 blocks were successfully auctioned across nine States. The total estimated revenue accrued to the States over the lease period stands at Rs 1.28 lakh crores. The states are expected to earn additional revenue of Rs 99000 crores owing to the introduction of auction for grant of mineral concessions. The auctions introduced under MMDR Amendment Act 2015 brought huge additional revenues along with greater transparency in allocation of mineral resources.

He added that the Amendment to the Mineral Auction Rules made auction process less cumbersome. About 30 more blocks are ready for auction anytime soon, which could be billed as the highest number of blocks to be auctioned at a time. More than 13,700 crores were accrued in District Mineral Fund in the mining districts of major mineral-rich states across the country. These funds shall be utilised for projects under Pradhan Mantri Khanj Kshetra Kalyan Yojana (PMKKKY) for social welfare, protection of environment and infrastructure development of mining affected areas. He stressed for the initiation of auction process in advance for the mineral leases expiring in 2020 to avoid disruption of mineral supply to downstream industry.

Earlier, Shri Haribhai Parthibhai Chaudhary welcomed the Ministers and briefed about the steps initiated to bring harmony between the Centre and the States in encouraging growth of mineral sector. The Conference witnessed support and applause for the Mining Surveillance System and its impact in curbing the incidence of illegal mining. The Hon’ble Minister assured that the portal for MSS for major minerals would be extended to the minor minerals to help States curb illegal mining of minor minerals. The States also expressed their eagerness to implement MSS.

On the occasion, a booklet on the Swatchhta Pakhwara organised by the Ministry of Mines in attached and subordinate offices, public sector units and autonomous organisations was released. S/Shri Ranjan Sahai, then CG, IBM, P.N. Sharma, COM, Dr Y.G. Kale, RCOM others were present.

Mineral ministers/P6

Sand Mining Framework released

Hon’ble Union Minister of Rural Development & Mines Shri Narendra Singh Tomar released Sand Mining Framework, a model to help States in preparing Sand Mining Policy and its model replication.

Shri Prithul Kumar, Director, Ministry of Mines gave an overview of the framework, prepared by a team of officers from Indian Bureau of Mines (IBM) and WAPCOS, a Govt. of India Undertaking under Ministry of Water Resources, River Development and Ganga Rejuvenation. He explained the concept and methodology adopted in making of the Framework and benefits which could be accrued out of it. The Framework gives due thrust on the alternatives for river sand, which can ease out the pressure on the demand for River Sand.

Shri Narendra Singh Tomar released the Framework in the presence of other dignitaries. In his address, Shri Tomar said there was a notable turnaround in the mining sector in the last four years. The country achieved a robust 6 per cent growth in terms of volume of mineral production current year up to Jan 2018. The adoption of Sand Mining Framework would check illegal mining of river sand, he said. Shri Abhay Agrawal, RCOM and Technical Secretary and Shri Pushpendra Gaur, DCOM, IBM significantly contributed in the making of the Framework.

Shri Haribhai Parthibhai Chaudhary, Hon’ble Minister of State for Mines.
Union Minister meets Industry representatives

On the sidelines of the State Mining Ministers’ meeting, Shri Narendra Singh Tomar, Hon’ble Union Minister of Mines held a meeting with the Mining Leaseholders’ Association of Goa and other mining associations on 18 Jan, 2018. The office bearers Goa Mineral Ore Exporters Association (GMOEA) and Mineral Foundation of Goa (MFG) also participated in the meeting. The members of various Mineral bodies apprised the Union Minister of their grievances. Shri Ambar Timblo, President, GMOEA said the Goan mining industry faced many problems like export duty of 30 per cent on iron ore, Supreme Court imposed cap on production and unfavourable market conditions etc. The Union Minister while emphasising the need to take the State Government on board, advised the industry associations to take up the issues before Government of Goa and sought the comments and recommendations of State of Goa to pursue such matters at appropriate forum. S/Shri Subhash Chandra, then Joint Secretary (Mines), Prithul Kumar, Director (Mines), Dr Y.G. Kale, RCOM, Goa, Daulat Hawaldar, Secretary (Mines), Government of Goa and Shri Prasanna Acharya, Director, DMG, Goa attended the meeting.

Iron ore from Odisha

In a separate meeting, Shri Tomar met representatives of mining companies from Odisha to review the production of iron ore, subsequent to the closure of six mines in Odisha. It was apprised that some miners still had a scope to increase production within their permissible Environmental clearance and other limits, while adhering to the Supreme Court orders. He exhorted the companies to increase their production to the maximum possible within their permissible ceilings to which the miners assured that they would step up the production so that steel industry remains fully supplied.

Dr. Niranjan Kumar Singh, JS (Mines) is CG In-charge

Dr Niranjan Kumar Singh, Joint Secretary in the Ministry of Mines is appointed in-charge of Controller General, Indian Bureau of Mines, Nagpur. A 1987 batch Indian forest service officer from Gujarat cadre, Dr Singh is on central deputation and serving as Joint Secretary (Mines) since September, 2014. He took the charge of Controller General In-charge on May 1, 2018.

Dr Singh is an alumni of Indian School of Mines (now IIT-ISM), Dhanbad and completed his B.Tech in Mining Engineering from ISM. He has also accomplished doctorate degree. He has abundant experience in government and public sector, serving in various capacities in the Central and State Governments. As a IFS officer, he has worked immensely for conservation, management and social development and has served as Director (Environment and Forestry Sector) in the erstwhile Planning Commission. Dr Singh has served as the two time Government nominee Director at Bharat Aluminium Company Ltd and National Aluminium Co.Ltd. The IBM family extends a hearty greeting to Dr N.K. Singh, Joint Secretary and CG In-charge. Congratulations sir...

Anil Mukim is Secretary (Mines)

Shri Anil Gopishankar Mukim, a 1985 batch Indian Administrative Service officer of Gujarat cadre took charge of the office of Secretary, Mines on 1 April, 2018. In the status of Secretary-designate, Shri Mukim was appointed the Officer on Special Duty (OSD) at the Ministry of Mines on March 15, while he took the reins from the outgoing Secretary.

Shri Anil Mukim served as the Additional Chief Secretary in his home cadre, Gujarat, before joining his new assignment. His more than three-decade career was embellished with key administrative posts like Additional Chief Secretary in charge of Finance, General Administration and Health and Medical Education Departments of Gujarat and served as the Principal Secretary to Revenue Department. On central deputation between year 2006 and 2011, Shri Mukim was the Joint Secretary at Ministry of Commerce and Industry and Chief Vigilance Officer of Housing & Urban Development Corporation Ltd (HUDCO). Shri Mukim carried out big ticket reforms in his capacity at the Finance and Health departments in Gujarat.

He was appointed the Special Commissioner in Bhuj, to oversee the relief operations in the wake of 2001 Gujarat Earthquake. Bhuj was the epicenter of 7.7 magnitude earthquake that hit parts of Western India. Shri Mukim carried out commendable work as Special Commissioner overseeing the relief and rehabilitation of the affected people. He studied Commerce and Law and has a training in Industrial Policy, Planning and Development and Universal Education. His array of experience shall contribute to the development of Mineral sector in the coming days.

Congratulations Sir...
The Indian Bureau of Mines celebrated the 71st Foundation Day, Khanij Diwas with pomp and gaiety at the Headquarters in Nagpur and at all other regional, zonal and sub-regional offices on 1 March, 2018. The main event was held at the IBM Headquarters in Nagpur. Shri Rajiv Ranjan Mishra, Chairman-cum-Managing Director of Western Coalfields was the chief guest, while Shri M.P. Chaudhari, CMD, MOIL, Nagpur attended the programme as guest of honour.

In his address, Shri Mishra lauded the contribution of IBM to the Mineral Sector in India. The different agencies – both government and private – in Mines and Mineral sector should jointly work for the betterment of the community, he said and shared the WCLs experience in community work initiatives. WCL started sand production from the overburden of the coal mines and started conservation of water used in the coal to produce low-cost potable drinking water called, Coal Neer. The manufacturing of bricks from fly ash contributes to the low-cost of housing schemes launched by the Prime Minister under Pradhan Mantri Aawas Yojana, he said.

Shri M.P. Chaudhari, CMD, MOIL said the IBM worked for the nation building through regulation of mineral sector and conveyed his wishes for the future endeavours of the Bureau. Shri Ranjan Sahai, then CG, IBM presided. On the occasion, a blood donation camp and a heath check up camp were organised for the employees. Shri Tiu, then Chief Controller of Mines welcomed the guests, Dr P.K. Jain, CME proposed vote of thanks. A cultural programme was organised in the evening.

Goa

In Goa, the Foundation Day programme coincided with a Workshop on Swatchhta with the theme, “Swachhta Se Satat Vikas” organised for the mining professionals on 1st March, 2018 at Ravindra Bhavan, Margao. The Workshop aimed to give exposure to innovative ideas and best practices related to waste management, cleanliness and housekeeping.

Smt. Anjali Sehrawat, Collector & District Magistrate, South Goa District was the chief guest, while Shri B.L. Meena, Director, Directorate of Mines Safety, Goa Region was guest of honour. In her address, Smt. Anjali complimented the IBM for organising the workshop on its foundation day. She appealed the mining community to undertake mining activities adhering to the regulations of sustainable development and asked the miners to undertake welfare activities amongst the communities affected. Shri B.L. Meena highlighted cleanliness as a continuous process and said all citizens have a responsibility to maintain the surrounding clean.

Earlier, Dr Y.G. Kale, RCOM gave a brief about the workshop and delved on the activities carried out by IBM under Swatchhta Abhiyan during past year. Shri Prem Prakash, Deputy Controller of Mines proposed vote of thanks. Smt. Akshata Puranik Bhat compered the event.

Anil Kumar Nayak appointed Joint Secretary (Mines)

Shri Anil Kumar Nayak, an officer of Indian Ordnance Factories Services (1986 batch) has been appointed as Joint Secretary, Ministry of Mines in March 2018. Born in 1962, Shri Nayak joined the IOFS on 16th Feb, 1987. He has served as the Deputy Director General, Ordnance Factory Board, Kolkata before joining as Chief Labour Commissioner in Ministry of Labour in August 2015. He brings with him varied experience in technical as well as administrative fields.

Following his appointment as Joint Secretary (Mines), Shri Nayak has also been nominated part-time official Director on Board National Aluminium Company Limited, Bhubaneswar.

MCDR Rules amended

In a bid to speed up the auction process of the leases expiring in 2020, Ministry of Mines has amended the Mineral Conservation and Development Rules, 2017 by way of an Amendment notification, published in Gazette of India vide G.S.R. No. 289, dated 27.3.2018. A rule 12 (4A) has been inserted which mandates exploration in G2 level as stipulated under clause (a) of rule 5 of Mineral (Evidence of Mineral Contents) Rules 2015, to be carried out in the mining leases expiring in 2020 by 1 April, 2019. The rule also lays down the timelines for implementation of the exploration plan prepared with the approval of IBM for satisfying the requirements.

There are about 288 mining leases which would expire in 2020, of which 59 are working leases, which give substantial production of key minerals viz. iron ore, manganese and chromite ore etc. The auction process needs to be initiated well in advance to ensure a seamless transition.
2020 Auction of Leases: IBM makes new strides

As the Indian Bureau of Mines (IBM) lays a roadmap for the auction of expiring leases, the information on working & non-working leases expiring in 2020 is received from Bhubaneshwar, Bengaluru, Hyderabad, Gandhinagar, Jabalpur, Nagpur, Ajmer and Ranchi regional offices. The 4th State Level Committee meeting for finalisation of exploration plan of Odisha state was held on 9 Feb, 2018 at Bhubaneshwar. The information on 88 leases cancelled by the Hon’ble Supreme Court Judgment dated, 7 Feb, 2018 is under compilation at Goa regional office.

Meanwhile, the 4th State Level Committee meeting for finalisation of exploration plan of Madhya Pradesh state, was held at Jabalpur on 20 Feb, 2018, while the 5th meeting of Karnataka state was held on 3 April, 2018 and second State Level Committee meeting of Jharkhand state was held on 27 March, 2018. The Goa State Government has revised the list of leases expiring in 2020. As per the updated list, 175 leases are expiring out of which 171 are iron ore leases, 1 manganese lease and 3 bauxite leases.

OFMSS

Meanwhile, under the Mining Surveillance System (MSS), the next round of triggers generation is going on at BISAG. Hitherto, 51 triggers for major mineral leases have been generated provisionally for the States of Gujarat, Chhattisgarh, Madhya Pradesh, Andhra Pradesh, Maharashtra, Himachal Pradesh, Odisha, Rajasthan, Tamil Nadu, whereas in case of minor minerals leases, 110 triggers were generated for Gujarat, Rajasthan, Goa, Andhra Pradesh, Jharkhand, Karnataka, Chhattisgarh, Haryana, Maharashtra, Telangana and Uttar Pradesh. MSS is a responsive mineral administration, through public participation, for curbing instances of illegal mining activity through automatic remote sensing detection technology.

69th Republic Day celebrated in IBM offices

The Indian Bureau of Mines celebrated 69th Republic Day with fanfare and zeal at its Headquarters in Nagpur and at all its zonal and regional offices spread across the country. At the main event, Shri Ranjan Sahai, then CG, IBM hoisted the tricolour at the sprawling campus of IBM in Nagpur.

Addressing the employees, Shri Sahai called upon the officers and staff to deliver their duties with commitment and on time to catch up with the reforms being carried out in mineral sector. He said IBM adopted new technologies like MTS & MSS to enhance its capabilities and shared the status of upcoming programmes and schemes. A colourful stage programme was organised in which children participated in large numbers. Separate sports events were also organised for the children and adults. Prizes were distributed to the winners in various categories.

Goa

The Goa Regional office also celebrated the 69th Republic Day with patriotic fervour. Dr Y.G. Kale, RCOM, Goa hoisted the national flag at the office premises and invited attention towards the initiatives of Central Government for mineral sector and urged the employees to contribute their best for the nation building. On the occasion, S/Shri Prem Prakash, DCOM, Suresh Prasad, DCOM spoke. Shri M.N. Prasannan, Superintendent, conducted the programme. The employees and their family members took part in the celebrations which included cultural events followed by prize distribution. Dr Y.G. Kale and other senior officers gave away the prizes to winners.

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As part of the implementation of Swachhata Action Plan, Indian Bureau of Mines organised and implemented Swatchh Bharat Mission under the jurisdiction of all its regional offices in December, 2018. The week-long programme comprised of themes like Swachh Bharat-Swastha Bharat and Swachhta Se Satat Vikas and various activities surrounding the theme.

The various activities included awareness campaign posters, essay & slogan competition in mines and nearby school and village level, Skits, Nukkad Natak, Cleanliness & House Keeping and distribution of sanitary kits etc. Besides, mass rallies were organised with an objective to creating awareness on Swachh Bharat Mission. Six workshops were organised at Hospet (Bengaluru), Nagpur, Jabalpur, Noamundi (Ranchi), Goa and Udaipur. The best performers under each of the category were felicitated with award and an appreciation letter.

Nagpur Regional Office
A Training-cum-Workshop on the theme, ‘Swachhta Se Satat Vikas’ was organised under the auspices of Nagpur Regional office at Chandrapur on 17 march, 2018. The Workshop’s objectives were to create awareness among the representatives of Mining Industry regarding cleanliness in mines and their surroundings. Shri Arun Prasad, RCOM, Nagpur Regional office, IBM presided. In his address, he stressed on the role of Mining Industry in cleanliness of mines and its surrounding areas. He briefed about the points to be covered under Swachh Bharat Mission.

IBM offices hold Swatchh Bharat programmes

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IBM offices/P11
TECHNICAL UPDATES

Beneficiation on Molybdenite borehole sample

A Molybdenite bore hole drill core cut sample from Marudipatti central block Dharmapuri district, Tamil Nadu was received through M/s Mineral Exploration Corp. Ltd, Nagpur for conducting bench scale beneficiation studies at the Modern Mineral Processing Laboratory and Pilot Plant of Indian Bureau of Mines, Nagpur. The objective of the investigation was to explore the possibility of beneficiation of Molybdenite ore sample to meet the specifications of end user industries.

The as received sample assayed 0.0284% Mo, 0.031% Pb, 0.004% Cu, 0.012% Zn, 0.23% S(T), 6.144% Fe₂O₃, 57.118% SiO₂, 11.849% Al₂O₃, 6.05% CaO, 2.37% MgO, 0.252% P₂O₅, 5.537% Na₂O, 0.046% Cl, 0.975% K₂O, 0.052% BaO and 7.876% LOI.

Mineralogical studies of the as received sample indicated that the sample contains Molybdenite in very minor amount. Galena, Sphalerite, Chalcopyrite, Pyrite, Arsenopyrite, Carbonates (dolomite, calcite), Quartz, Feldspar, Amphibole etc. are also present in the sample.

Flotation-cum-Gravity separation process yielded a Molybdenite concentrate assaying 40.74% Mo, 1.41% Pb, 4.23% Cu & 0.61% Zn with Mo recovery of 23.79 percent and weight percent yield 0.017. Whereas the V Cleaner concentrate assayed 28.83% Mo, 1.17% Pb, 3.40% Cu & 0.62% Zn with Mo recovery of 43.58 percent and weight percent yield of 0.044. The grade and recovery of Molybdenite could not be enhanced further due to interlocking of fine silicate grains with molybdenite mineral as well as presence of free carbonates in the concentrate product.

Beneficiation on Iron Ore sample

An iron ore sample designated as (BMQ-2, OBS-3, 4, 5) from Yerabali block, Karimnagar district, Telangana was received from Geological Survey of India, Southern Region at the Modern Mineral Processing Laboratory and Pilot Plant, Indian Bureau of Mines, Nagpur for bench scale beneficiation studies with an objective to produce an iron concentrate suitable for end industrial use.

The as received sample assayed, 43.54% Fe(T), 7.23% FeO, 33.70% SiO₂, 0.74% Al₂O₃, 0.066% TiO₂, 0.066% CaO, 0.50% MgO, 0.57% Na₂O, 0.09% K₂O, 0.022% P, 0.097% Mn and 0.45% LOI. Tabling on as-received sample ground to all -100 mesh size followed by Multi-Gravity Separation on T. Tails could yield a composite concentrate assaying 65.71% Fe(T), 10.76% FeO, 2.48% SiO₂, and 0.46% Al₂O₃ with Fe(T) recovery of 93.6% and weight percent yield of 62.0.

By simple gravity separation beneficiation process flow sheet could yield a concentrate with high grade and recovery that may find suitable industrial use.

Beneficiation study on Copper bearing Garnetiferous Mica Schist

A Copper bearing Garnetiferous Mica Schist sample from Kamalpura block, District-Bhilwara, collected by GSI as a part of G-2 exploration was sent to Regional Mineral Processing Laboratory, Indian Bureau of Mines, Ajmer, for bench scale beneficiation studies. The aim of bench scale beneficiation study was to evolve a process flow sheet producing a copper concentrate assaying more than 18% Cu with maximum possible recovery.

The “as received” sample assayed 0.27% Cu, 13.95% Fe(T), 3.62% FeO, 51.96% SiO₂, 9.90% Al₂O₃, 83.10% Al, 1.88% CaO, 9.99% MgO, 0.89% S(T), 0.29% TiO₂, 0.37% Na₂O, 0.44% K₂O, 0.04% Mn, 0.35% Graphitic carbon and traces of Sn. Chalcopyrite is the only copper bearing mineral. Garnet is major gangue mineral present in the sample. By employing Flotation test, produced a copper concentrate assaying 22.18% Cu, with 81.26% copper recovery (Wt% yield 1.0).

The final result confirms that although the Garnetiferous Copper bearing sample from Kamalpura block, Bilhwa (Rajasthan) deposit is a very low grade in comparison to most of the operating copper mines around the world, it has potential to produce a metallurgical grade concentrate. However, weight percent yield is around 1% only.

A final concentrate under optimum conditions assayed 23.05% Cu with 79.73% Cu recovery. It has potential to produce a metallurgical grade concentrate.
Training programme on Ore, Minerals & Environmental samples held

The Training Centre in association with the Mineral Processing Division organised a training programme on “Chemical analysis of Ore and Minerals, Environment Samples for Officers of state DGMs and Industry Personnel” at the Modern Mineral Processing Laboratory & Pilot Plant of IBM at Hingna on 22-23 February, 2018.

Shri Ranjan Sahai, then Controller General, IBM inaugurated the two-day training. Smt. Indira Ravindran, Director (OD), MP Division presided over the programme. The training was divided in two technical sessions in which four lectures were imparted which are as follows:
1. “Facilities and Capabilities of M.P. Division in the field of Mineral Characterisation, Mineral Beneficiation and Chemical/ Environmental Analysis” by Dr (Mrs.) S.M. Lal, CODO.
2. “Chemical Analysis of Environmental Samples” by Dr A.N. Verma, Sr. Chemist.
3. “Capacity Development for successful implementation of sustainable development Goals (SDG) in the field of Chemical Analysis of ores and minerals” by Shri P.W. Diwe, Chemist.

On second day, the following technical lectures were organised:
1. “Chemical Analysis of Ores and Minerals by XRF Techniques by Shri N.M. Bhave, Chemist.

The Valedictory of the training programme was held on 23 Feb, 2018. Smt. Indira Ravindran was the chief guest for the valedictory function, while Dr (Mrs) Sandhya Lal, CODO, IBM presided over the event. The chief guest distributed the certificates to all the participants, who expressed their satisfaction regarding the content of the training. Shri P.W. Diwe, Chemist was the Course Director, while Smt. S.D. Tijare, Asstt. Chemist was the Course Coordinator.

Chairman of the trust spoke. Swatchhta Kits carrying necessary items of personal hygiene were given to the students in a plastic-free bags stitched by the women from Self Help Groups in Goa. A similar programme was organised at Government High School, Davorlim, Margao, Goa. Shri Vithoba Shirodkar, Vice-Principal of the School thanked the IBM for initiating such drive in the school.

A Swatchta Awareness Camp was also organised at the IBM Colony in Goa. The employees carried out Cleanliness Drive inside the colony, while the staff of Minescape Mining Company presented a Skit, ‘Nukkad Natak’ on Cleanliness and Hygiene in surroundings. Dr Y.G. Kale, Shri Prem Prakash were present.

Shri Shivaji Maharaj Jayanti Utsav Samiti, IBM celebrated the birth anniversary of Chatrapati Shivaji Maharaj on 20 February, 2018. Dr Prasad Deshpande (centre) was the chief guest, while Shri Ranjan Sahai presided. In his address, Dr Deshpande touched upon various facets of Shivaji Maharaj. The retiring employees of the Samiti were honoured on the occasion.
PEEK INTO HISTORY


The National Mineral Policy 2008 lays enormous emphasis on the Sustainable Development Framework (SDF) prepared with the expertise and experience of Indian Bureau of Mines (IBM). The foundation for the concept was laid from the information drawn from deliberations in National and International Symposiums and Mineral Conventions. The foremost of such events was the National Mineral Convention of 1981 held in New Delhi during 16-18 February, which provided food for thought for environment and tackling the issues associated with mining.

On 16 February, 1981, Shri Pranab Mukherjee, Hon’ble former President of India who was then Union Minister of Commerce, Steel & Mines released the IBM’s latest publication, “Elements of Mineral Exploration” at the National Mineral Convention organised under the auspices of Federation of Indian Mineral Industries (FIMI). In his address, Shri Mukherjee referred to the phenomenal increase in consumption of minerals over the years and called for intensification of search for new mineral deposits. “To balance properly the need for minerals of the present generation and those of future and tackles problems of environment and ecology in future shall be the salient features of the future mineral policy,” he told in his keynote address at the event.

He said environment issues were not that acute in India as in other advanced countries. However, he desired that the problems of environment and ecology be tackled in a far-seeing manner, and all new mining and metallurgical projects planned accordingly. Shri Mukherjee also announced that the Government proposes to assign to IBM the additional responsibility of looking into such environmental problems of mining, and bring them to the notice of Government. He also emphasised the need for evolving appropriate technology for the beneficiation and utilisation of low grade deposits. He expressed his happiness over the IBM’s efforts to provide suitable literature for the mineral sector.

“In the past decade, IBM has brought out many useful publications concerning mining and geology which have been well received by the industry,” he said.

On the occasion, Shri Mukherjee presented the first copy of the publication, “Elements of Mineral Exploration” to N.A. Baldota, then President of FIMI during the National Mineral Convention of 1981. Shri D.N. Bhargava, then Controller of IBM is seen.

Threshold Value of Minerals: National level Workshop holds deliberations

In the last leg of its series of workshops to gather stakeholders’ view on proposed threshold value of minerals, Indian Bureau of Mines (IBM) organised a National level workshop on 7 March, 2018 at IBM Headquarters in Nagpur. Shri Ranjan Sahai, then CG, IBM inaugurated the workshop. The meet served as a platform to seek final views of the stakeholders.

Senior executives from Mining and Mineral Industry, representatives from State and Central PSUs, Regional and Zonal Heads and other senior officers of IBM attended the workshop. IBM proposes to review the threshold values of 11 major minerals (viz. Apatite & Rock Phosphate, Bauxite, Chromite, Fluorite, Graphite, Iron Ore, Kyanite, Limestone, Manganese, Magnesite and Wollastonite).

Royalty Rates

Meanwhile, Ministry of Mines has constituted a study group for review of Royalty rates of various minerals on 9 Feb, 2018. Shri Ranjan Sahai, then CG, IBM and Dr P.K. Jain, Chief Mineral Economist attended the first meeting of the Group held under the chairmanship of Dr Rajeshwar Rao, Additional Secretary (Mines) on 13 March, 2018 at New Delhi. Subsequently, draft composition of different subgroups for important minerals was sent to the Ministry.
MEMC Week celebrated in IBM Offices

The Indian Bureau of Mines under the jurisdiction of its various regional and zonal offices organised Mines Environment and Mineral Conservation (MEMC) Week during the last quarter. The Raipur Regional office inaugurated the MEMC Week flagging off an inspection team to various mines at its premises in Raipur on 7 Jan, 2018. The week-long celebration concluded on 17 Feb, 2018 in the presence of then Controller General Shri Ranjan Sahai. Prizes were distributed to the winners under various categories. An exhibition highlighting sustainable development and CSR activities was organised and a souvenir released on the occasion.

Sondadih Limestone Mines of Nuvaco hosted the function. Shri B.L. Gurjar, RCOM and representatives from NMDC, BSP, ACC, Ultratech, Jayaswal Neco and Ambuja were present.

Similarly, MEMC week was celebrated under Ajmer office jurisdiction during 3-9 Jan, 2018 and at Ranchi office during 8-14 Jan, 2018. About 46 mines participated at MEMC events in Ranchi.

International Women’s Day celebrated

The Indian Bureau of Mines observed the International Women’s Day with zeal and enthusiasm at its Headquarters in Nagpur on 8 March, 2018. Smt. Smartana Patil, Deputy Commissioner of Police (Special Branch), Nagpur was the chief guest, while Smt. Jayashree Chabrami, Managing Director of Eminence Arts and Education Pvt Ltd was the guest of honour.

In her address, Smt. Smartana Patil stressed on the importance of empowerment of women in all the fields and said the society has a responsibility to provide a safe environment to children and women. While, Smt Jayashree Chabranini called for education of the girl child as a foremost priority of the society and appreciated the modern women for breaking the shackles of the past and advancement made in different fields. Smt. Pratibha Sahai was special invitee. Shri Ranjan Sahai, then CG, IBM presided.

Smt. Indira Ravindran, Director, MP Division, Dr. Sandhya Lal, CODO and President of IBM’s Women’s Day Celebration Committee and others were present.

26th Annual Sports meet held

The 26th Annual Sports meet of IBM employees was organised at Railway Officers Club, South Central Railway in Secunderabad during 7-9 February, 2018. Shri Ranjan Sahai, then CG, IBM inaugurated the sports tournament with hoisting the flag. Shri Arjun Mundiya, PCME & President of South Central Railway Sports Association and Shri B.R.V. Susheel Kumar, Director, DMG, Telangana attended the inaugural programme as guest of honour.

Shri Pankaj Kulshrestha, Controller of Mines & Organising Secretary, 26th IBM Sports Meet and Shri Manish Maindiratta, DCOM & Chief Coordinator of the Sports meet and other senior officers of IBM were present. Shri Ranjan Sahai gave away the awards during the valedictory.
हिंदी कार्यशाला का आयोजन

दैनिक कार्य में हिंदी के उपयोग का बढाने के उद्देश्य से भारतीय खान ब्योरे केंद्र के विदेशी कार्यालयों में समय-समय पर हिंदी कार्यालयों का आयोजन किया जाता है।

भारतीय खान ब्योरे मुख्यालय – भारत सरकार की राजनीति के कार्यालयों एवं हिंदी के प्रभार-प्राधिकार के संकेत से साक्षरता से मुख्यालय में 12 मार्च 2018 को अधिकारियों एवं कर्मचारियों के लिए एक वृद्धि स्तरीय हिंदी कार्यालय का आयोजन किया गया, जिसमें कुल 29 अधिकारियों एवं कर्मचारियों ने मार्ग दिया।

कार्यालय में वैश्विक केंद्र के निर्माण एवं महासागर कार्यालय के व्याख्याताओं के साथ-साथ भारतीय खान ब्योरे केंद्र के वैश्विक कार्यालयों की उपयोगी विभागों के साथ-साथ संयुक्त राष्ट्र संघ के सदस्य देशों के राज्यों के लिए वैश्विक खान ब्योरे केंद्र के वार्ता समिति के साथ भाग लिया गया।

उद्देश्य प्रेमी कार्यालय – भारतीय खान ब्योरे के देशदर्शी कार्यालय में 19 मार्च 2018 को एक वृद्धि स्तरीय हिंदी कार्यालय का आयोजन किया गया। कार्यालय का सुभाषित मुख्य अधिकारी तथा साक्षरता के प्रवेश पर उपस्थित दूर सहकर्मी के हिंदी प्रादर्शक द्वार-अवधि नाथ शुकल के हस्ते किया गया। आयुक्तिफ्स ने श्री नन्दन निर्मित के पुष्पगुप्त राव खान द्वारा शुभारंभ किया। वैश्विक खान भूमिका एवं हिंदी सर्वेक्षण अधिकारी श्री शैलेंद्र सरकार के एक साक्षरता सर्वेक्षण की जरूरत तथा अभियान की जरूरत के लिए हिंदी के स्तर कार्यालयों का आयोजन किया गया।

वैश्विक कार्यालय – भारत सरकार की नीतिएं एवं वार्ताओं के संकेत से अनुसार भूमिका एवं वार्तालाप के स्तर कार्यालय के लिए एक वृद्धि स्तरीय हिंदी कार्यालय का आयोजन किया गया। वैश्विक कार्यालय का स्थिति उद्धारण 27 मार्च 2018 के 14 दिन-निकाय के 2-कार-काम से किया गया। इस अवसर पर श्री जे.आर. चौधरी ने कहा कि भारत एक खुदसौहा देश है एवं इसे देश में संयुक्त 1500 बोलियों संपूर्णता में है। यह भाषा औद्योगिक तथा साहित्यिक क्षेत्रों में विस्तार संपूर्णता का दृष्टि-किनारा बनाते हुए तथा मंच पर उपस्थित जी. बाई. जी. विनौ, के श्री कृष्ण खान निर्मित, श्री प्रेम प्रकाश, उप खान निर्मित तथा हिंदी सर्वेक्षण अधिकारी तथा श्री सुरेश प्रसाद, उप खान निर्मितके।
गोवा को मिला प्रथम पुस्कार

भारतीय खान ब्यूटी के हिंदी कार्यों का विवरण

भारतीय खान ब्यूटी ने अंतरराष्ट्रीय रेस्तोरां का अधिकारी के रूप में अनुभव किया है। उन्होंने अनेक अंतरराष्ट्रीय रेस्तोरां के अधिकारी के रूप में काम किया है। उन्होंने भारतीय खान ब्यूटी के कार्य के लिए अनेक समारोहों में भाग लिया है।

श्री पी.एम.सरस्वती
भारतीय खान ब्यूटी के प्रकाशन अनुभव में वरिष्ठ तकनीकी पद पर कार्यरत श्री पी.एम.सरस्वती को मुख्ता परिवारस्थ्यालय के संबंध एवं प्रकाशन विभाग की ओर से हेमा.श्री की हिंदी प्रदर्शन की गई। श्री पी.एम.सरस्वती के प्रकाशन संबंधी अनुभवों के साथ-साथ उनके काम के लिए विभिन्न प्रगति प्राप्त हुई है।

डाक्टरेट के उपाधि
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रूपांतर प्रशिक्षण क्षेत्र के राजस्थान समालोचना के लिए भारतीय खान ब्यूटी के 14 कार्यालय राजस्थान समिति के तहत कार्य किया गया। यह समिति के लिए प्रगति के रूप में संबंधी अनुभवों के साथ-साथ उनके काम के लिए विभिन्न प्रगति प्राप्त हुई है।

सेवानिवृत्ती
भारतीय खान ब्यूटी, मुख्ता, राजस्थान से सेवानिवृत्त होने वाले अधिकारियों/कर्मचारियों की सूची दिखाई देगी एवं मुख्ता में उनके सेवा के लिए सम्मानित कराया गया।
विभागीय राजभाषा कार्यान्वयन समिति की 105वीं बैठक संपन्न

विभागीय राजभाषा कार्यान्वयन समिति की 105वीं बैठक महाराष्ट्र के राजधानी मुंबई में 17 मई, 2018 को आयोजित की गई थी। इसमें 23 मंत्रियों, 63 समितियों, 19 यूनियन समितियों और 25 राज्य समितियों के अनुमोदन के साथ विभागीय राजभाषा कार्यान्वयन समिति की आयोजन के लिए विभिन्न मंत्रियों ने अनुमोदन दिया।

प्रयास का विमोचन

महाराष्ट्र के राजधानी मुंबई के राजभाषा कार्यान्वयन समिति की गृह पत्रिका 'प्रयास' का गृह पत्रिका 'प्रयास' का निदेशक विभागीय राजभाषा कार्यान्वयन समिति की अध्यक्ष जी.आर. प्रसाद ने उप राजस्थानी बांग्ला विभाग कार्यान्वयन अभिव्यक्ति के लिए विभिन्न कार्यक्रमों का आयोजन किया जाता है।

खानिज दिवस पर विभिन्न कार्यक्रमों का आयोजन

महाराष्ट्र के राजधानी मुंबई के राजभाषा कार्यान्वयन समिति की गृह पत्रिका 'प्रयास' का निदेशक विभागीय राजभाषा कार्यान्वयन समिति की अध्यक्ष जी.आर. प्रसाद ने उप राजस्थानी बांग्ला विभाग कार्यान्वयन अभिव्यक्ति के लिए विभिन्न कार्यक्रमों का आयोजन किया जाता है।

प्रमिला के हरे दिनों के उपयोगिता विभिन्न कार्यक्रमों का आयोजन किया जाता है।

प्रयास का विमोचन

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