

Mining Engineers' Journal

Indian Mining Day celebrations 2022



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December - 2022



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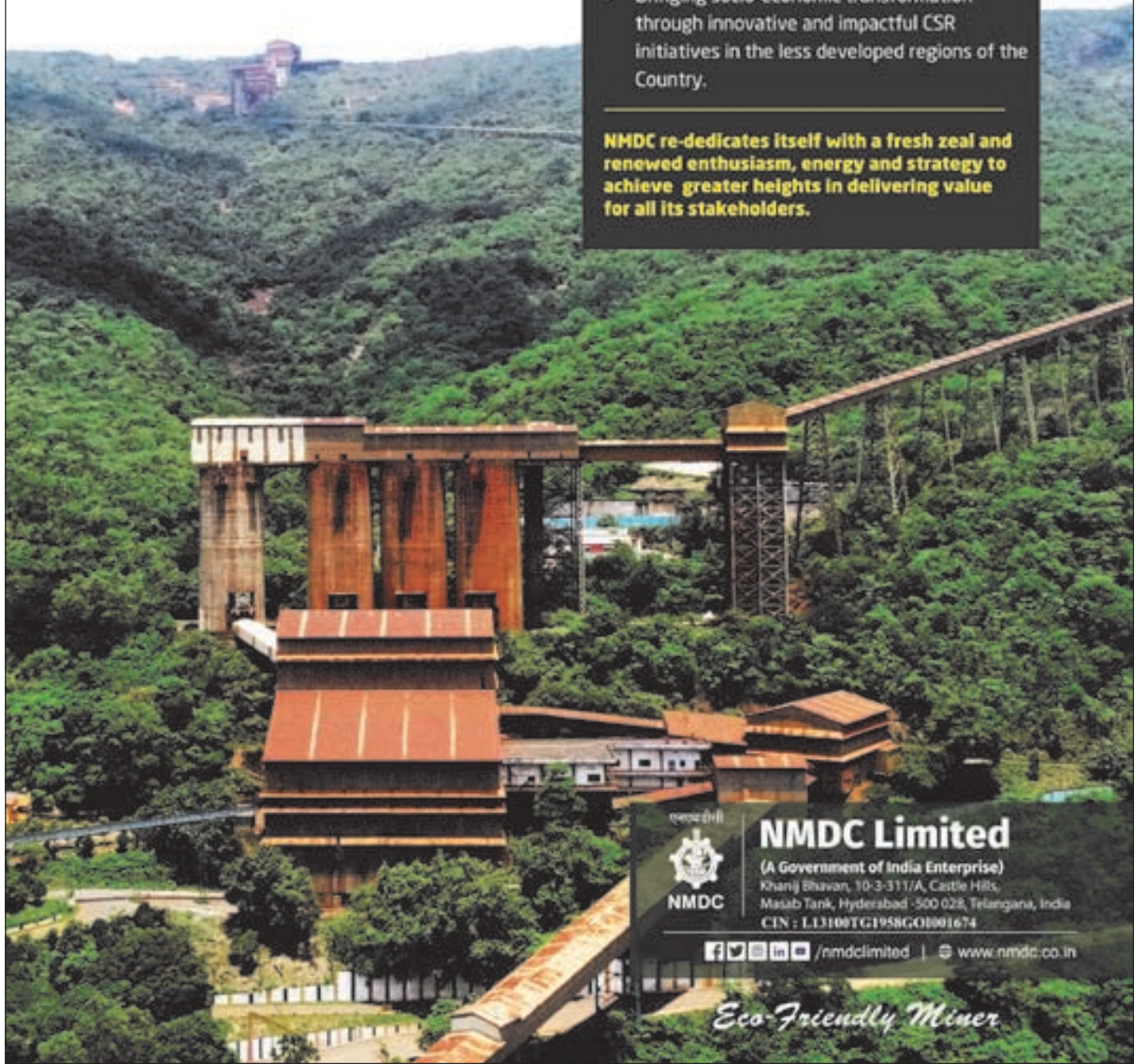


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President's Message.....

Dear Members,

Greetings...

I am very happy to inform you that all our chapters & the members of the Association celebrated INDIAN MINING DAY (IMD) in a very grand and befitting manner, involving all members, Employees of organisations, local people & leaders. Activities like Quiz & essay competition, programs, workshops, seminars, blood donation camps, Plantation programs sports etc were conducted. I appreciate the efforts made by all the chapters for making the event a grand success.

Quiz Master Mr Deepak Vidyarthi conducted the final round of National Quiz program on 1 st November 2022 as well as Audience round in virtual mode. The quiz program was very successful and has seen enthusiastic participation from all junior and senior members. The questions were fun and knowledge enhancing.

I participated in IMD & Silver Jubilee celebrations of Bangalore Chapter on 1 November 2022. I congratulate all members of Chapter for celebrating its **Silver Jubilee year**.

I wish to put forth the activities undertaken by our Association in the preceding month.

It gives me great pleasure to share with you that on 6 November 2022, we inaugurated our 27th Chapter, namely **Ongole-Vijayawada Chapter**, in the state of Andhra Pradesh, to cover the mining industries in that region. This is one more milestone in the history of MEAI and one more feather to the Association.

I also attended a One-day seminar on “**All India Seminar-Technological Developments in Coal Mining Industry for Sustainable Growth**” conducted by Singareni Chapter on 19 November 2022 at Kothagudem. I appreciate the Chapter on choosing such an apt topic and also for hosting the 6th National Council meeting at Kothagudem. It was a pleasant experience for all the members.

The Bhubaneswar Chapter organised a Knowledge sharing session on **MINING 4.0** on 23 November 2022 at Sukinda Chromite Mine of Tata Steel. This is a good initiative and other chapters may conduct similar programmes in their regions.

As a part of MEAI TECH SERIES (MTS) online program, a talk on “**State of Ground Stress, its use and Measurement in Rock Engineering**” was delivered by Dr. D.S. Subrahmanyam, on 26 November 2022. The MTS program is an ongoing program, which is held every month. Request all the mineral industry professionals to utilise this opportunity.

The other upcoming events scheduled for the month of December are NACRI in-person meeting on 19th and **MEAI All India Geologist Conference (MEGECON-22)** on 20-21 December, organized by Bellary-Hospet Chapter at Hosapete. I request all our members to participate in the Conference in large numbers and gain the benefits from the event.

Regards,

K. MADHUSUDHANA
President



Mining Engineers' Association of India

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EDITOR'S DESK



Dr. P.V. Rao
Editor, MEJ

A decade of observance of Indian Mining Day by MEAI

The Mining Engineers' Association of India (Association), the leader of the mineral industry professionals and the trusted voice of the Indian mineral industry relentlessly playing its pivotal role by taking exemplary initiatives over the last six decades. Observance of the Indian Mining Day (IMD) every year on 1st November by the mineral industry in India is one such modest initiative magnificently implemented by the Association.

The small and big mines equally, across several mineral rich regions in the country, started observing the Indian Mining Day on their own to uphold the pertinent noble virtues of mining and bring awareness among the communities in their surroundings on the significance of undertaking scientific mining in the development of the nation. This singular initiative taken by the Association has been proving to be an effective enabler in eventually winning the social licence to operate the mines from the communities. How could anybody overlook the fundamental fact that sustenance of our civilization is largely, if not entirely, contingent on the usage of minerals and metals. The minerals and metals form the core of all the present and future technologies, in one form or the other, and extracting them by scientific mining methods for the benefit of the society has to continue.

In the above backdrop, with a strong commitment to the nation and its growth, our Association's leadership took the bold decision of declaring November 1st as the Indian Mining Day, an unique initiative ever taken by any professional

body in the country. Befitting this noteworthy resolve, the President of the Association called a Meeting-cum-Press conference at Hyderabad to declare open the observance of the Indian Mining Day in the country and released a booklet on the eve of the Indian Mining day, at 2:00 PM on 31-10-2013. The Association's President Shri A. Bagchhi presided over this event while Shri Sutirtha Bhattacharya, IAS, Chairman-cum-Managing Director, Singareni Collieries Co. Ltd. was the Chief Guest. Past President of the Association Shri. T.V. Chowdary, Director (Technical) Singareni Collieries Co. Ltd. Shri. B. Ramesh Kumar, and Director, DMG, Andhra Pradesh Shri B.R.V. Susheel Kumar were the Guests of Honour.



It may be worthwhile to recapitulate a decade old celebrations held on this historical day at the Association's Headquarters and the Chapters in 2013. At the Association's Headquarters and most of our Chapters observed the Indian Mining Day, for the first time, on November 1st 2013 by displaying banners in their office premises, distribution of stickers and badges to the members and students and organising plantation programs. An elocution competition on 'Mining of Minerals and its usefulness to Society' was held among the students of Mining Engineering & Geosciences at 9:00 AM at Hyderabad, wherein 25 students participated. A Quiz competition was held at 11:30 AM amongst the miners, academicians, mining engineers & geoscientists.

The concluding function, held at 4:30 PM in the MEAI Headquarters was presided over by Shri T.V. Chowdary while Prof. M.A. Ramlu was the Chief Guest and Shri. P.N. Sharma, Regional Controller of Mines, IBM, Hyderabad was the Guest of Honour. Certificates, Mementos & Prizes were distributed to the winners of the Elocution & Quiz Competitions.

Some Chapters of the Association viz. Bellary-Hospet, Bhubaneswar, Goa, Rajasthan Chapter-Jaipur, Rajasthan Chapter-Jodhpur, Rajasthan Chapter-Udaipur, Tamilnadu etc. observed the IMD in a grand manner on 1st November 2013.

On completion of a decade of uninterrupted observance of the IMD by the Association with increased zeal and enthusiasm; and expanding the IMD activities even to individual mines in several regions of the country, it is heartening to share with you that this year the IMD has been celebrated in a befitting manner by large majority of our Chapters. This month's Mining Engineers' Journal has been totally dedicated to publishing the glimpses of IMD celebrations of this year held under the guidance of our Chapters viz. Ahmedabad, Bailadila, Bangalore, Barajamda, Belgaum, Bellary-Hospet, Bhubaneswar, Dhanbad, Goa, Hutti-Kalburgi, Hyderabad, Jabalpur, Nagpur, Jaipur, Jodhpur, Udaipur, Singareni, Veraval-Porbandar, and Tamilnadu.

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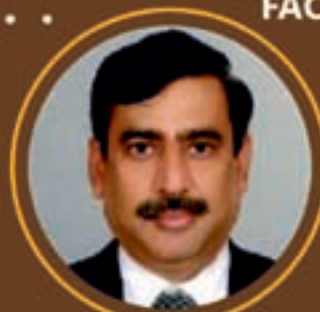
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NEWS FROM THE MINING WORLD

► **India, Australia to identify companies in critical mineral space**

In the critical minerals space, Australia is the world's largest producer of lithium and the second largest producer of rare-earth elements

In a bid to secure supply, the government of India and Australia would be working to identify companies in Australia in the critical mineral space for acquisition.

"We expect to identify these companies in the next few months. We are willing to offer the opportunities to our private companies after having done due diligence," said Vivek Bharadwaj, secretary, ministry of mines, government of India. Bharadwaj was speaking on the sidelines of the Global Mining Summit organised by CII in partnership with the ministry of mines and coal.

As part of the Comprehensive Strategic Partnership between the two countries in June 2020, Australia's Department of Industry, Science, Energy and Resources and India's Ministry of Mines had signed a memorandum of understanding (MOU) on increasing trade, investment and research and development in critical minerals between the two countries.

In the critical minerals space, Australia is the world's largest producer of lithium and the second largest producer of rare-earth elements. It also has large resources of battery minerals like cobalt and nickel. Bharadwaj said that there are companies at different levels – in exploration, early stages of finding the mineral or those that have offtake arrangements. But he pointed out that today, the world is such that there is hardly any supply contract available till 2030.

Across the world, countries are looking to secure supply of critical minerals to support a growing demand for clean energy technologies – from wind turbines to electric vehicles. Bharadwaj said that a team of geologists would be visiting Argentina this month to look for opportunities.

Argentina, it may be mentioned, is one of the top countries with identified lithium resource. Argentina, Bolivia and Chile – referred to as the "lithium triangle" account for about 56 per cent of world lithium resources. Earlier in his speech, Bharadwaj said that the country's industry must inculcate strategic thinking going well into the future with a special thrust on innovation to flourish. He emphasised that in order to overcome challenges and develop capabilities, the industry should not shy

away from going beyond the borders to acquire niche foreign organisations.

Vedanta group chief executive officer, Sunil Duggal, while addressing the summit, called for deregulation of critical mineral exploration, mining and processing to encourage private participation.

As India is embraced for a massive economic development, particularly for new-age areas like clean energy transition, electric mobility, digital economy, defence manufacturing and space programme, the country will require massive amount of critical minerals like lithium, cobalt, nickel, copper, rare earth element, platinum group minerals etc, Duggal pointed out. "India is almost 100 per cent import dependent in these minerals."

Ishita Ayan Dutt, Kolkata | November 17, 2022

► **India's dependence on coal increases despite its green energy push**

FM Sitharaman even said that India's plan to shift to renewable energy has received a jolt and therefore ways to reduce coal dependency and return to eco-friendly energy resources, need to be devised

Despite India being bullish on green energy options as it aims to achieve net-zero emissions by 2070, the geo-political situation triggered by the Russia-Ukraine war has led to supply chain constraints, rising energy prices and pushing inflation to highest-ever levels in several countries.

All these factors combined together have compelled India to continue to depend on coal-based thermal energy. Recently, Union Finance Minister Nirmala Sitharaman said that uncertainties in the energy sector are an area of concern for the government. She noted that like many other nations, India too will have to rely more on coal in the near future due to global uncertainties and supply chain disruptions.

The Finance Minister even said that India's plan to shift to renewable energy has received a jolt and therefore ways to reduce coal dependency and return to eco-friendly energy resources, need to be devised.

Greenpeace India's Lead for climate and energy campaign Avinash Kumar gave a realistic perspective to India's growing dependence on coal despite its aggressive green energy push. "As part of the Covid-19 recovery plan, the government opened up its coal mining sector for private players and announced many new coal mines for auction. This new investment

planned for coal power plants can impact the progress of clean energy. Ideally these investments should have been for renewables,” he said.

Kumar further informed that in the light of the fact that coal is increasingly becoming economically unviable and the cost of renewables continues to drop, there is a need to phase out of coal soon. India’s dependence on coal can be gauged from the fact that owing to the shortage of the fossil fuel in thermal plants, Coal India, the country’s largest producer, was in June this year, forced to import 8 million tonnes of coal for this fiscal.

It was for the first time in the 50 years of Coal India’s existence that the public sector undertaking was asked to import the dry fuel. In such a scenario, the COP27 summit, which is currently going on in Egypt’s Sharm El-Sheikh, is deliberating on the need for climate funding and on ways to reduce dependence on traditional modes of energy like fossil fuels.

In fact there are voices being raised in the summit, especially by developing economies that major polluters like China should be made to pay towards a climate fund. India too on its part has been a strong promoter of renewable energy, as it has launched the International Solar Alliance (ISA), encouraging over 150 countries to take advantage of this international initiative. Recently it also launched LIFE (Lifestyle for Environment), a global movement encouraging people to change their lifestyles and consumption patterns in order to protect the environment.

Ironically though, India has been forced to depend on coal-based energy options due to shrinking global supply chains and rising fuel prices owing to the Ukraine crisis. In fact Union Coal Minister Pralhad Joshi last month had said that India’s dry fuel production will touch 900 million tonnes in the current fiscal. Coal India’s production in 2021-22 was 622 million tonnes.

Though the central government is calling its dependence on coal as a temporary phase, it does hamper its efforts to push for greener options.

IANS, New Delhi | November 13, 2022

➔ **Centre allows 13 private agencies to do mining exploration operations**

With this, there are now a total of 22 private agencies which are engaged in mineral exploration

The Centre has given accreditation to 13 private agencies for engaging in mineral exploration, official sources said. With this, there are now a total of 22 private agencies which are engaged in mineral exploration.

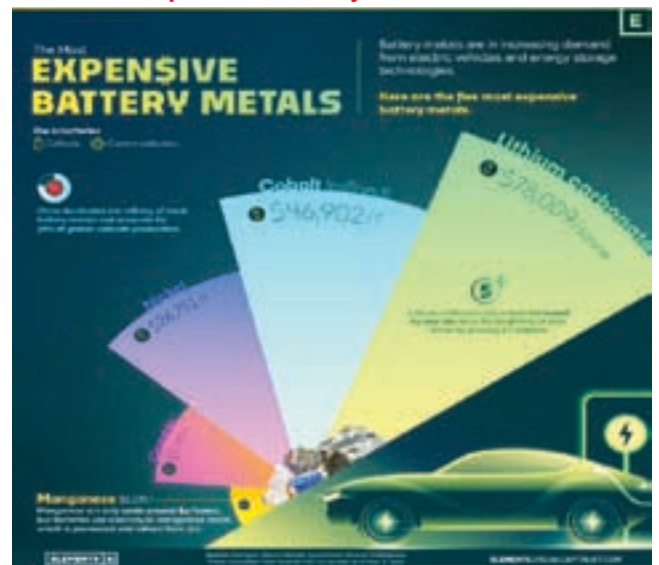
With the amendment of Mines & Minerals (Development & Regulation) MMDR Act in 2021, private agencies

can also participate in exploration for the mineral sector after getting duly accredited by QCI-NABET (Quality Council of India-National Accreditation Board for Education and Training).

Mineral Exploration and Consultancy Limited (MECL) is pursuing mineral exploration activities through NMET funding. Apart from the ongoing exploration works, MECL provides consultancy services for preparation of reports and other documents for actionable blocks.

IANS, New Delhi | November 8, 2022

➔ **The most expensive battery metals**



The five most expensive battery metals

Battery metal markets are booming on the back of rising electric vehicle sales.

Supply chain issues and a global rush to secure supplies have skyrocketed battery metal prices over the last year. And if battery metals remain expensive, the decade-long freefall in lithium-ion battery prices might come to a temporary halt. The above infographic highlights the five most expensive battery metals as of November 2022 using prices from Shanghai Metals Market.

How much do battery metals cost?

Cobalt was by far the most expensive battery metal until late 2021, which was when lithium prices hit an inflection point, heading towards all-time highs.

A single tonne of lithium carbonate, one of the refined forms of lithium that’s used in batteries, now costs over \$75,000, up from around \$6,500 at the beginning of 2021.

(Continued on Page 43)

INDIAN MINING DAY CELEBRATIONS 2022

MEAI Headquarters

The Indian Mining Day Celebrations were organized online at MEAI HQs. As part of celebrations, a presentation on the “Sustainability and Circular Economy” was made by Shri. B R V Susheel Kumar, Past Chairman – Hyderabad Chapter. Shri. K. Madhusudhana, President presided over the function. Shri. Sharat Kumar Pallerla, Director MoEF, International Co- ordination was the Chief Guest of the event and he spoke on the theme of IMD.

Senior members viz. Shri. V.S. Rao, Shri. Meda Venkataiah, Shri. K. Madhusudhana, Shri. S.N. Mathur, Shri. BSP Raju, Shri. Deepak Vidyarthi, Shri. Deepak Gupta, Shri. M.S. Venkataramayya and Shri. K. Prabhakara Reddy participated in the online IMD Celebrations.

A National Quiz - 2022 was conducted by Shri. Deepak Vidyarthi. This program has drawn the attention of many members and found to be interesting and knowledge oriented.



A section of participants



Address by the Chief Guest Shri. Sharat Kumar Pallerla

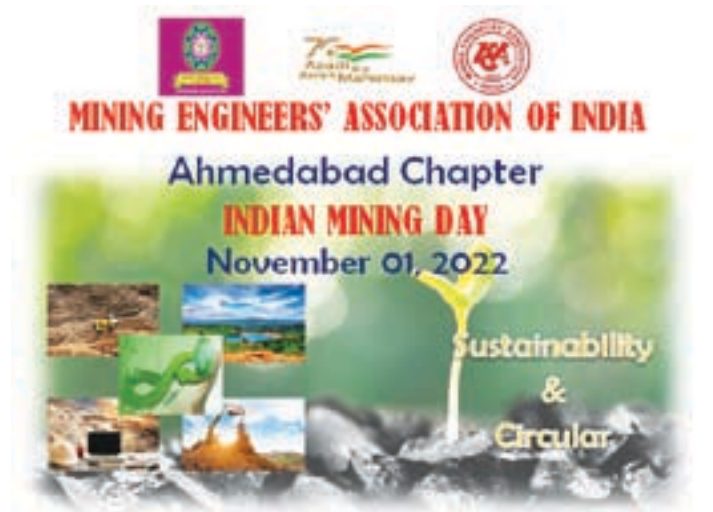


Address by Shri. K. Madhusudhana, President – MEAI.



MEAI – National Quiz 2022 was successfully completed by Shri. Deepak Vidyarthi –Quiz Master.

Ahmedabad Chapter



Indeed, it's a matter of great pleasure that the mining fraternity has celebrated Indian Mining Day on 1st November 2022. Ahmedabad Chapter has celebrated Indian Mining Day with great enthusiasm & high spirits. All Local Centers of the Chapter observed the Day at various mines of Gujarat.

Ahmedabad Chapter Head Quarter

Ahmedabad Chapter Head Quarter had organized a program at GMDC Corporate Office, Khanij Bhavan, Ahmedabad, with senior officials of MEAI. Chapter Chairman Sh. H K Joshi delivered a welcome Address. He congratulated all the members on the occasion of Indian Mining Day & emphasized on the sensible mining approach. Indian Mining Day Oath was sworn in by all the members through Sh. G V Gajera, Member MEAI. Address on the theme of “Sustainability & Circular Economy” was delivered by Sh. A K Makadia Vice Chairman-I of the Chapter. He deliberated the concept of Circular Economy and the actions required to achieve the ESG goals.

Sh. P.N. Rao, Council Member MEAI & VP GHCL highlighted the responsible mining practices and the need for sustainability. He also correlated the industrial process of yarn making with the concept of circular economy. Sh Rao has also encouraged the young engineers in his address & pointed out the diversified role a mining engineer can play.

The Guest lecture on Sustainability was delivered by Dr. Gurdeep Singh, Expert Environment GMDC, Former Head Dept. of ESE, ISM Dhanbad. Dr. Singh has presented the long journey of Indian Mining Industry, the hardships & the challenges faced. The global sustainability practices and the way forward for decarbonization targets set by the Indian Prime Minister. The session was very interesting & much interactive.

VP-I MEAI, Sh. S. N. Mathur presented his views on the theme and gave the examples from GMDC & other Mining Industries, which will lead to achieve the sustainability goals. The program ended with a vote of thanks by the secretary Ms. Gunjan Pande followed by High Tea. The program was attended by members including consultants from the Mining fraternity.



Sh.P N Rao greeting Sh.A K Makadia



Sh.S N Mathur addressing gathering



participants taking IMD Oath



Dr. Gurdeep Singh speaking on sustainability

Bhavnagar Local Center

BHAVNAGAR Local Centre of the Chapter celebrated Indian Mining Day and conducted a Seminar. The Celebration was organized in different sessions.

In the morning session flag hoisting ceremony was carried out at the Khadsaliya Lignite Mine GHCL Ltd., Lignite Project Bhavnagar, GMDC Ltd. and Ghogha Surka Lignite Mining Project GPCL mines. Flag was hosted by Shri Sanjiv Kumar Pandey, MEAI member Bhavnagar Local Centre and Safety Officer at Khadsaliya Lignite Mine. Flag Hoisting at GMDC Lignite Project by Shri Sanjay Mathur, MEAI member and Mines Manager /DGM GMDC Bhavnagar at ADM building. Flag hoisting at Ghogha Surka Lignite Mine project by Shri Yashwant Kumar Singh followed by pledge ceremony and briefing about the Indian Mining Day to workers and Contractor Workers.

In the afternoon session a half day seminar was organized at Hotel "Basil Park" Bhavnagar on the theme "Sustainability and Circular Economy". During the technical session three papers were presented by Shri Dhananjay Kumar Vice Chairmen II, Ahmedabad Chapter, Sr. General Manager/ Agent Khadsaliya Lignite Mine, Shri Anil Wandkar Secretary MEAI Bhavnagar Local Centre and Mines Manager at Khadsaliya Lignite Mine and Shri Sanjay Mathur MEAI member, DGM/ Mines Manager GMDC Bhavnagar Lignite Mine.

Shri Anil Wandkar, welcomed the audience and narrated the importance of Indian Mining Day. Shri Dhananjay Kumar, delivered the Keynote address. In his address, he narrated the importance & requirement of Sustainability & Circular Economy for the country. He narrated the various exploration techniques to explore the REE for the growth of our country. Shri Sanjay Mathur, in his address briefed about importance of Indian Mining Day and use of sustainability and circular economy. He informed the audience about value addition in the mining process. Shri Yashwant Kumar Singh, Mines Manager Ghogha Surka Lignite Mine GPCL delivered the

speech on the subject matter. In his speech, he focused on mining history. Shri Sanjiv Kumar Pandey, Safety Officer, GHCL Ltd. Khadsaliya Lignite Mine delivered the vote of thanks. Program was anchored by Miss Mita Vyas, Assistant office GHCL Ltd.

More than 135 persons were present during the meet. They include MEAI members and their families of all three lignite mines of Bhavnagar, employees and representatives from Contractor. The seminar was followed by a Cultural program & family dinner.



Family members joining the celebrations



Flag Hoisting & oath taking at GHCL & GMDC Lignite Mines, Bhavnagar



Cultural program during the Celebration of IMD

Kutch Local Centre

Kutch Local Centre of the Chapter celebrated 10th Indian Mining Day. In the morning session flag hoisting ceremony was carried out at the Umarsar, Panandhro, Mata no Madh, Gadshisha mines of GMDC and Sanghi Industries Ltd. At Umarsar Lignite mine Flag was hosted by Shri N N Mupkalwar, Executive Member, MEAI Ahmedabad Chapter and I/C General Manager (Project) GMDC at ADM building followed by pledge ceremony by Shri S C Jhagrawat, Executive Committee Member MEAI Kutch Local Centre.

In the evening, a half day seminar was organized at SKV Vidhyalaya, SKV Nagar on the theme "Sustainability and Circular Economy". More than 40 persons were present during the meet. They include MEAI members, employees from Gujarat Mineral Development Corporation and Sanghi Industries Ltd. Contractors' representatives from M/S Montecarlo Ltd and M/S Bhardwaj Infrastructure Ltd were present during the seminar. Shri N S Prajapati, Sr MEAI member, Umarsar Lignite Mine GMDC welcomed the audience and detailed the importance of Indian Mining Day. Shri M K Choubey, General Manager (Mines), Sanghi Industries Ltd, delivered the Keynote address. In his address, he narrated the requirement of technology updating to make mining a circular economy. He narrated that various social and development work done for the society by the mining companies shall be put into public domain. Shri N N Mupkalwar, I/C General Manager (Mines), Umarsar Lignite Mine and executive member, MEAI Ahmedabad Chapter in his address briefed about importance of Indian Mining Day



Delegates lighting the Lamp

and use of sustainability and circular economy. He informed the audience about the yearly calendar of programs to be organized by the Kutch Local Centre. Shri D S Bhayal, Convener, MEAI Kutch Local Centre and General Manager GMDC delivered the speech on the subject matter. In his speech, he focused on the use of sub grade minerals. During the technical session, six papers were presented by Shri D A Bhimani, Overaman, Mata Na Madh GMDC Ltd, Shri S J Matariya, Astt Manager (Mines) Gadshisha GMDC Ltd, Shri Punit Singh Overman Umarsar GMDC Ltd, Shri N D Raval, Astt Manager (Mines) Panandhro GMDC Ltd, Shri Anil Yadav/Amit Gupta Assistant Manager (mines) Sanghi Industries Ltd, Shri H G Dave I/C GM (P) Panandhro GMDC Ltd. Shri Sumit Roy, Safety Officer, GMDC Umarsar delivered the vote of thanks. Program was anchored by Shri S C Jhagrawat, Dy General Manager GMDC Ltd. Ceremony was followed by dinner.



Flag hoisting & Oath by team Umarsar Lignite Mine, GMDC Ltd.



Flag hoisting by Sh. D S Bhayal, Matana Madh Lignite Mine GMDC Ltd.



Team Matana Madh GMDC taking oath



Delegates on Dias



General Managers of Projects attending the program along with other Mine officials

On 1st November 2022 for the celebration of Indian Mining Day, the Mining Engineering Department of Government Polytechnic Bhuj had organized the "3rd Online Technical Quiz" for all Mining Fraternity across India. This event is supported by MEAI Kutch Local Centre and Mining Engineer's Association of India Ahmedabad Chapter. Around 104 students from Diploma, Degree, M. Tech courses have participated in the quiz from various Institutes and around 71 participants from various Industries. E-certificates were awarded to successful participants.

South Gujarat Local Center

Various celebrations were organized to observe Indian Mining Day by the South Gujarat Local Center of the Chapter. In the Rajpardi Lignite Mine of GMDC, Sh. M M Umariya DGM, Mines hoisted the Indian Mining Day Flag, and the project organized a Quiz session in the evening. All the members participated in it. Similar kind of celebrations took place at Tadkeshwer Lignite Project of GMDC. The flag was hoisted by Sh. Pulak Mathur, General Manager (P) followed by oath by the project team. GM (Project), Mines Manager, Production Manager, Workman Inspector and HR head spoke on the theme.

Indian mining day was celebrated with equal enthusiasm at Lignite Mine of GIPCL. Flag hoisting was done by Shri P C Goyal. It was followed by an address to members and oath taking by all members and contractor representatives. Afterwards a group discussion was held on the theme of Sustainability & circular economy.



Flag Hoisting at Tadkeshwer Lignite Mine, GMDC



Team Tadkeshwer participating in Quiz



Sh. Pulak Mathur addressing the gathering at GMDC Lignite Mine Tadkeshwer &



Oath by members of Tadkeshwer Team



Flag Hoisting at GIPCL



Group discussion on theme of IMD at GIPCL

Bailadila Chapter IMD celebrations

Bailadila Chapter celebrated Indian Mining Day-2022 with enthusiasm and zeal.

During Indian Mining Day-2022, General Body Meeting followed by technical paper presentation and poster exhibition were conducted.

IMD celebration started with flag hoisting by the Vice President of the Chapter at New Training Safety & Environment Building at 11:00 AM. Afterwards, he administered the Indian Mining Day pledge to all MEAI Members.

Following this, a General Body meeting was conducted, in which Shri P.K. Majumdar (email- pranab@nmdc.co.in, mobile no. 9425266448) has been elected as the New Chairman of the Bailadila Chapter, Whereas Shri Vinay Kumar (email – vinaykumar@nmdc.co.in) and Shri Nageshwar Nandal (email id – nnandal@nmdc.co.in, mobile no.9407614052) have been elected as New Vice president & Joint Secretary respectively of the Chapter

After the General Body Meeting, technical paper presentation & poster exhibition on the theme 'Sustainability & Circular Economy' were conducted.

The celebrations ended with a vote of thanks by Shri Shiv Shankar Prasad, Secretary of the Chapter.



Flag Hoisting by Chairman of the Chapter Shri P.K. Majumdar



Shri S.S. Prasad, Secretary presenting Welcome Address



Presentation being made by Shri M. Malik Quraishi and a section of audience

Bangalore Chapter **Indian Mining Day 2022 Celebrations**

The Indian Mining Day was celebrated by the Bangalore Chapter at the Pellet Auditorium, KIOCL, Koramangala in the afternoon of 1st November 2022. Shri T. Saminathan, CMD, KIOCL Ltd, has graced the occasion as Chief Guest and Shri. K. Madhusudhana, President, MEAI presided over the function. Shri Dhananjay G. Reddy, Chairman, Dr H. S. Venkatesh, Vice Chairman, Shri N. Rajendran, Secretary, Dr C. V. Raman, Jt. Secretary and Shri K. Ramani, Treasurer of the Chapter were on the dais.

Shri. Dhananjay G Reddy welcomed the guests, members and invitees and students present on the occasion and administered the Indian Mining Day pledge to all the guests and the participants on this occasion. As part of Indian Mining Day celebration, competitions such as essay writing, poster

making were organised for students on the theme of the Mining Day – Sustainability and Circular Economy. Students from School of Mines, KGF and Dr. T. Thimmaiah Institute of Technology, KGF actively took part in these competitions in large numbers. The following students won the prizes.

Essay Competition

- Mr. Anshadh A, DrTTIT, KGF, 1st Prize
- Mr. Manikanta A, School of Mines, KGF, 2nd Prize
- Mr. Srinath, L.R, School of Mines, KGF, 3rd Prize
- Mr. Ravishankar, DrTTIT, KGF, 3rd Prize

Poster competition:

- Mr. Lenus Leander, DrTTIT, KGF, 1st Prize
- Mr. Rufus N. R., DrTTIT, KGF, 2nd Prize
- Mr. T. Kumar, School of Mines, KGF, 3rd Prize

Cash prizes of Rs.3000, 2000 and 1000 and the certificates were presented to the students by the guests on the occasion and the certificates were also distributed to the participants.

The Bangalore Chapter, as a part of Indian Mining Day celebration, felicitated the senior members who have contributed significantly to the mining industry and the Bangalore Chapter. This year the guest felicitated the following members on the occasion:

1. Shri K. S. Parameswaraiiah
2. Shri C. Srinivasaiah
3. Shri B. S. N. Shetty
4. Shri K. V. Bhaskar Reddy
5. Dr. H. S. Venkatesh

Shri N Rajendran read the citations of the above members..

Shri. T. Saminathan in his address greeted all the members and students on the Indian Mining Day and highlighted the importance of the recycling of the material for sustainable development of the natural resources and to meet the increasing demand. He also explained about KIOCL's role in the Mining industry and about starting the mining operation of KIOCL at new mining lease in Ballari district after obtaining the permissions and clearances. He acknowledged the efforts put in by our fellow members in this respect.

Shri K. Madhusudhana, spoke about the Indian Mining Day celebrations started by the MEAI across the country and requested all the members to participate in the National Quiz being organised by the MEAI HQ as a part of the Indian Mining Day, in his presidential address.

Shri. K.R. Krishnamurthy and Dr. T. N. Venugopal presented the mementos to the guests. Shri. N Rajendran, Secretary, thanked all the guests, members, and participants for attending the Indian Mining Day Celebration organised by the Bangalore Chapter and making it a memorable one.



Mining Day - A View of the Audience



Felicitating of Shri K. V. Bhaskar Reddy



Shri Dhananjaya G. Reddy Administering Mining Day Pledge.



Felicitating of Dr. H. S. Venkatesh



Mining Day Pledge



Presentation of prize



Felicitating of Shri Parameswaraiiah



Presentation of Prize



Felicitating of Shri C. Srinivasaiah



Felicitating of Shri B. S. N. Shetty

BARAJAMDA CHAPTER

Celebration of Indian Mining Day

Activities conducted on India Mining Day:

Theme for all activities was "Sustainability & Circular Economy".

- Essay Competition for School Kids in 2 Category (5th to 8th Class & 9th to 12th Class)

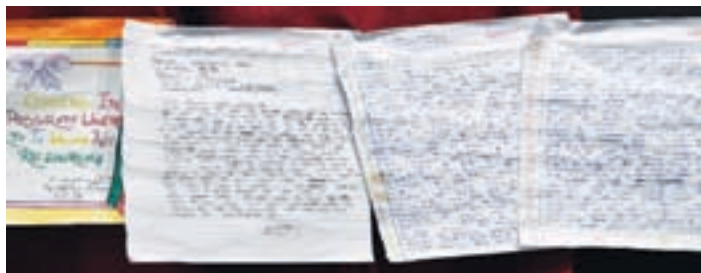
■ IMD Celebrations 2022

- Speech Competition for School Kids in 2 Category (5th to 8th Class & 9th to 12th Class)
- Essay Competition for School Teacher
- Speech Competition for Mining Mate/Foreman
- Quiz Competition for Engineers

The following Organisations conducted the Events in and around their mines:

- Tata Steel
- SAIL
- OMC
- JSPL
- JSW
- Arcelor Mittal Nippon Steel
- Rungta Group of Mines

Essay Competition and other competitions held for schoolchildren



Essay competition



Speech Competition among employees of different mines on "Sustainability & Circular"



Indian Mining Day at Tata Steel Noamundi Officers club



Diya Lighting by Shri Shirish Shekhar, Chief Noamundi Tata Steel & Secretary MEAI Barajamda Chapter



Chapter Secretary Mr. Shirish Shekhar addressed the gathering emphasizing the importance of Indian Mining day. He stated that this is the platform where young engineers from different mines can interact and collaborate with each other and enrich themselves with knowledge about best practices of different mines. Newer technologies to be identified and adopted for Sustainable Mining.

Quiz Competition among Engineers on occasion of Indian Mining Day



Quiz Competition among Engineers of different mines on occasion of Indian Mining Day



Celebration of Indian Mining Day at Tata Steel Noamundi Officers club



Celebration of Indian Mining Day at Tata Steel Noamundi Officer club





Prize distribution – winners of quiz competition among Engineers



Felicitation of teachers of different schools for organizing various competitions among schoolchildren



Celebration of Indian Mining Day at Tata Steel Noamundi Officers club

Belgaum Chapter

The Indian Mining Day, 2022 was organised on 1st November, 2022 to bring awareness about the importance of Mining and also to promote Sustainable Mining in the country. This was organised by the Belgaum Chapter in association with M/S South West Mining Limited, Lokapur. Shri D A Hiremath, retd. Joint Director, DMG, Maharashtra was the Chief Guest. Shri Rachappa Saradgi, VP, M/S was the Guest of Honor. Dr. Purandara Bekal, Chairman, MEAI, Belgaum Chapter was also present on the occasion.

Shri Chidanand, Mines Manager of SWL welcomed the gathering. The program began by planting trees in the Mining area by all dignitaries. As a part of the function, Drawing Competition for employees of SWL and associated organizations and also for school children was organized. Addressing the gathering, Shri Rachappa Saradgi briefed the participants about the technology advancement in Mining process to reduce the pollution and also to encourage sustainable mining in all parts of the Country. Shri D A Hiremath, Council member of MEAI briefed about

the recent Mining rules and regulations and how to take up eco-friendly mining to reduce the environmental hazards. Dr. Purandara Bekal, Chairman of the Chapter stressed the need of improving technology in the mining sector to reduce pollution arising out of dust and other related materials and also to bring innovations in Mining process including closure plan and rehabilitation of mining areas. He also mentioned the necessity of Mining for economic growth of the country and therefore it is quite important to bring awareness in the society about mining practices and its contributions to employment generation and GDP growth.

A senior official from SWL while addressing the audience expressed his concern over the growth of the mining industry. He briefed about various aspects of Mining and its role in meeting societal requirements. He also stressed about the individual responsibility to deal with sustainable mining, which should ultimately lead to the growth of the country. Shri. GSN Murthy, Mining consultant and Vice Chairman of the Chapter informed about the frequent changes occurring in Mining rules and regulations. He also opined that short-term planning and unscientific mining need to be avoided to improve the mining sector.

Dr. Purandara Bekal inaugurated the Students Chapter of Belgaum Chapter. This was made possible due to the efforts made by Dr. Pramod Hanamgond, Head, Department of Geology, GSS College, Belgaum. All members congratulated both Dr. Purandara Bekal and Dr. Pramod Hanamgond for initiating formation of the installation of Student Chapter of MEAI.

Observation of Mining Day ended with a vote of thanks proposed by Shri Amit Ghooli. He expressed his appreciation to SWL Company for their excellent support in organizing the program and also to all members who encouraged and facilitated the program at Lokapur. Special mention was made for all officials of SWL (Team headed by Shri Chidanandji, Mines Manager) and also to Shri G.S.N. Murthy who wholeheartedly involved and made it successful. Senior members like, Shri D S Malkai, Shri Shripad etc. were present on the occasion.



Oath taking during the celebration of Indian Mining day at SWML Mines. (R-L): Shri. Chidanand M, Shri Amit Ghooli, Shri DA Hiremath, Dr. B.K Purandara, Shri. G.S. Narasimhamurthy, Shri. Rachappa Saradagi, Shri Vikram Singh



Presentation of Prize by Shri. Vikram Singh to the Local Students who won first Prize in Drawing Competition



Inaugurating the Function by Watering the Plant By Dr. B.K Purandara.
(R-L): Shri Amit Ghooli, Dr. B.K Purandara, Shri DA Hiremath, Shri. Rachappa Saradagi, Shri Vikram Singh, Shri. G.S. Narasimhamurthy, Shri. Chidanand M



Inauguration of Student Chapter

Bellary-Hospet Chapter **CELEBRATION OF INDIAN MINING DAY & KARNATAKA RAJYOSTAVA**

Indian Mining Day has been observed on 01-11-2022 by the Bellary-Hospet Chapter for the year 2022 along with Karnataka Rajyotsava. More than 155 members attended the event along with the following dignitaries.

Chief Guest- Sri Umesh Sawarkar, DMS, Bellary Region, Bellary

Guest of honor – Sri Nagendra Kumar Sree Ram, DDMS, Bellary Region, Bellary

Chairman of the Chapter – Sri Prabhakar Reddy

Secretary of the Chapter – Sri Mallikarjun S.H.M

Sri Yogananda T.L – HOD, TMAES, Polytechnic Hosapete

Sri Sharath Kumar – Asst. Professor, Srikrishnadevaray Univeristy, Nandihalli

Sri Vinay Kumar – Manager, VTC Donimalai

The program started with hoisting of Karnataka Rajyotsava flag. After the flag hoisting, oath was taken by all the members with guests with Indian Mining Day Pledge followed by singing Karnatak Naada Geete.

- Plantation by dignitaries in GVTC Yard Sandur.
- Inauguration of Blood Donation camp by Sri Umesh Sawarkar, Director of Mines Safety, Bellary Region, Bellary. 31 members donated blood on this occasion.
- Dignitaries met all the members who attended the meeting.
- Meeting started with prayer and lighting of lamp by dignitaries.
- Welcome address by Sri Chandrashekhar Halli, Dy Gen. Manager MGVTC Sandur.
- Secretary Sri Mallikarjun SHM, in his speech explained about the activities conducted in connection with IMD i.e. quiz contest for students, engineers and for their families, Essay writing competition, Cricket match, etc.
- During the Indian Mining Day program, Prizes were awarded to the winners & runners.

Among the mining community, the Association recognized Singers & Musicians from various mines, by presenting awards. They entertained the audience with beautiful, melodious songs during the function.

Special prizes were awarded to those students who have secured 2nd & 3rd ranks in their academic education of TMAES Polytechnic, Hosapete i.e. Diploma in Metallurgical Engineering Final year student Mr SHANKAR K got state level 3rd rank and Diploma in Mining Engineering Final year student Mr NIZAMUDDIN got state level 2nd rank.

Sri K Prabhakara Reddy, explained about the activities conducted during this year like First aid centre, Seminar on drilling & blasting for unorganized sector, etc. He told that on 20th & 21st December 2022, an All India GEOLOGISTS' Conference "MEGECON-22" will be conducted. He thanked all the Sponsors and members for supporting the Association by all means.

Prize distribution ceremony

Winners & runners of Cricket tournament, quiz contest, Essay writing.

Guest of honor – Sri Nagendra Kumar Sree Ram, DDMS, Region, Bellary, addressed the gathering and appreciated the work done by the BH Chapter.

Chief guest - Sri Umesh Sawarkar, DMS, Bellary Region, Bellary in his speech appreciated the activities of the BH Chapter, and promised support from his side to share knowledge with the members.

Sri J.Srikanth, GM, ZTC Mine concluded the function with a vote of thanks followed by lunch.

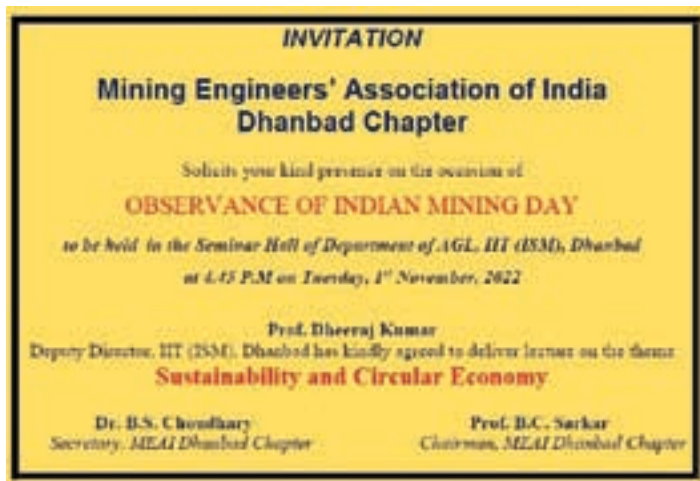


Dhanbad Chapter

Report on Observance of Indian Mining Day

Dhanbad chapter organized Observance of Indian Mining Day in a befitting manner in the Seminar Hall of Department of AGL, IIT (ISM), Dhanbad at 4.45 P.M on Tuesday, 1st November, 2022.

The invitation letters were sent to all the members of the Chapter. 34 members attended the meeting.



The Programme Schedule was:

- Welcome by Prof R K Sinha/ student

- Presentation of Bouquet to Guest of Honour Prof Dheeraj Kumar
- About the Observance of MEAI Indian Mining Day by Prof Bhabesh C Sarkar, Chairman, Dhanbad Chapter
- Introduction of Prof Dheeraj Kumar, the Guest of Honour by Prof R K Sinha, Executive Committee Member, Dhanbad Chapter
- Theme based Indian Mining Day Talk by Prof Dheeraj Kumar, Guest of Honour and Deputy Director, IIT (ISM) Dhanbad
- ONLINE MEAI National Quiz
- Vote of Thanks by Prof B S Choudhary, Secretary, Dhanbad Chapter
- National Anthem



Talk delivered by Prof. B.C. Sarkar, Chairman, Dhanbad Chapter

MINING ENGINEERS' ASSOCIATION OF INDIA (MEAI) proudly represents all professionals serving the minerals and mining industry in India. MEAI has a membership strength of more than 6000 spread in 26 regional chapters across the country. The members include Mining Engineers, Geologists, Metallurgists, Geo-scientists, Environmental Engineers, and Allied Engineers serving the mining industry, Educators, Researchers and Students. MEAI advances the mining community through information exchange, knowledge sharing and professional development. International

recognition and collaboration of MEAI includes SME-USA, AusIMM and SAIMM.

Like every year, this year MEAI has come out with a theme “Sustainability and Circular Economy” for the observance of Indian Mining Day-2022. We are all aware that Mining is an important activity for India. With 3527 mining leases for 40 major minerals, extending a total lease area of roughly 315,986 hectares, India is a major producer of crucial minerals such as chromite, iron ore, coal, and bauxite, among many others. Mining contributes to 2.5 per cent of the Gross Domestic Product (GDP). The total mineral production is valued at 1,299,500 million, and 18,963,480 million of mineral exports in 2020. The mining sector plays a vital role in the national economy, employs more than half a million persons, and contributes to the country’s revenue through exports, royalty (tax paid in return to the right to use), dead rent, cess, sales tax, and duties. Yet, the environmental (land degradation, land conversion, mine wastes, air pollution, groundwater depreciation, and pollution of water bodies) and social externalities associated with mining are of severe concern. Land-use-related impacts, population displacement and resettlement, health-related impacts, social and cultural disruption, inequality, and conflicts appear to be the most concerning social impacts of mining in India.

As one of the fastest-growing economies of the world, there is increased pressure for metals/minerals to meet the demands of an estimated 6 per cent growth in GDP, in the following decade. The ‘Make in India’ initiative for expansion of the industrial sector would further increase the mineral resources demand. Depletion of mineral reserves is an issue of concern already. Reports indicate a 15 per cent drop in iron ore production in 2018, with reserves in Goa expected to exhaust within a decade and an anticipated reduction in production from Odisha. All these, demand the incorporation of sustainability and equity in the sector.

Making a shift from “linear to circular” (from TAKE-MAKE-DISPOSE to TAKE-MAKE-USE- RECYCLE) to build thriving economies requires radically lessening the environmental impact of extracting raw materials, reducing the use of primary resources, designing waste-free products, harnessing materials to keep them in use and implementing technologies to ensure the system is regenerative. Important things for contribution to circular economy practices at the mine and processing plant include turning marginal waste into value with a positive impact on both the sustainability and profitability of the operation.

A holistic approach harmonizing all the facets of sustainable development in the mining sector must be aligned by the Government and the Industry. To this end, we must introduce a global collaborative initiative to re-think, re-act and re-start our world for a more sustainable future.

Talk delivered by Prof. Dheeraj Kumar on TECHNOLOGY VISION FOR SUSTAINABLE MINING

Any mine is finite and thus not sustainable. The real question is what this process can contribute to sustainable development. Many industries are facing similar challenges – forestry, marine, chemical, energy – and one can learn lessons from them and try to identify best practice and set mechanisms in place for continuous improvement. What has become increasingly apparent is the inter-related nature of the problems faced by the mining sector. Issues of waste, land ownership, skills, infrastructure development, and conservation – are interdependent and any definition of sustainable development in the context of the mining sector will need to take a holistic approach.

Sustainable development is defined as “meeting the needs of the present without compromising the ability of future generations to meet their own demands.” This implies:

- Future generations have rights over resources
- Current generation has a duty to include future generations’ needs in its decision-making
- An accounting of social and environmental impacts

Some of the mining companies worldwide have already started incorporating sustainable development concepts in the planning, permitting, exploration, development, operation and closure of modern mines.

Sustainable development requires integration and balance of four most important governing parameters:

- Economic responsibility: shareholders, employees, community, society
- Environmental sustainability & ecology protection: society is more concerned with mining’s impacts and behavior than its products
- Community development: shared objectives
- Effective governance system

It involves integrating economic, environmental and social responsibility to:

- Provide value (profit, shareholder return, products society needs and uses)
- Balance the benefits of providing mineral-based products to meet society’s needs with the potential impacts on the physical and social environment
- Enable society to view mining as a desirable activity -- earn the public’s consent
- Ensure transparency

Role of Mining in Sustainable Development

- ▣ Creator of new wealth
 - Jobs, taxes and economic growth
 - Foundation for eliminating poverty
 - Make a profit -- Shareholder return
 - Enhanced standard of living

- ▣ Providing mineral-based products to meet society's basic material and energy needs and demands
- ▣ Advances in civilization
 - All successful societies have encouraged, and will continue to encourage, mining
 - Metallurgical and technological advances have defined advances in civilization
- ▣ Mitigation of society's impact on the environment
 - Mineral products make environmental protection technology possible
 - Modern mines are designed and built for closure
 - Recyclable mineral products

The following aspects of Mineral industries require a special attention:

a. Sustainable Mining Practices: Environmentally friendly mining activities

Reducing water and energy consumption, minimizing land disturbance and waste production, preventing soil, water, and air pollution at mine sites, and conducting successful mine closure and reclamation activities

- Mining from tailings: Development of Advanced Technologies for Mineral Processing of uneconomic grade of ore– Electro-winning process for obtaining copper, use of cyanide in gold extraction etc.
- Dust suppression techniques:
- Zero Discharge Water: Innovative water conservation practices with an aim to bring the ratio of wastewater disposed of to water recovered to zero. Rain water harvesting structures for use of rain water and augmentation of ground water table
- Energy: Reducing energy consumption at mine site.
- Land disruption: reducing the overall footprint of the mining area, minimizing the amount of waste produced and stored, maintaining biodiversity by transplanting.
- Mine Waste: Waste Management Plans.
- Mine site reclamation and closure activities: aim to restore land disturbed by mining activities to an acceptable state for re-use by people or ecosystems.

b. Scientific Mining: adoption and continuous development of technology to ensure the efficient use of the resources. There are many examples of non-sustainable mining practices such as extracting only the highest-grade material in a deposit, ignoring the lower grades, for short-term gains.

c. Adoption of Advanced Technologies

- AI and ML: Use of AI and ML in Discovery of Mineral Resources and decision-making process in mines.
- Augmented Reality: Integrating information from digital system to physical workplace. A real-time problem-solving system such that problems and solutions can be shared and visualized in real-time.
- Virtual Reality: Hardware and Software based simulation and training on real-life mining situations such as simulating mine fire, roof failure, dump slope etc., Operation and maintenance practices for Heavy Earth Moving Machines etc.
- Smart Sensors and Miner's Tracking Systems: Development of wearable sensors and underground positioning systems (UPS) akin to GPS systems.
- Smart and Intelligent Sensing System: Heavy Earth Moving Machineries (HEMM) Real-time condition monitoring & health prediction to improve Overall Equipment Efficiency (OEE), Intelligent personal assistance system for miners for interfacing with machines, computers/PDAs and other information system. At present RFID based systems are in place for communicating with smartphones and other personal devices for reporting purposes.
- Robotic Miners System: Robotic based systems and their integration for performing hazardous and repetitive operations in mines such as drilling robots, rescue robots, robotic Loading and Hauling machines, Robotic roof bolters and dressers etc.
- Enterprise based Decision Support Systems: Introduction of robust underground hybrid communication system (WIFI/TTE/5G) for interaction between the miners in operations and decision makers with IoT in place.
- Mine Data Analytics: Use of Big Data and other related tools for useful information discovery and prediction of various unforeseen events in mines such as prediction of roof fall, dump failure, unsafe mine environment etc.

Sustainable Mining and Mineral Development is the need of the hour if we have to provide a secure future for future generations. The World Commission on Environment and Development defines sustainable development as "... meets the needs of the present without compromising the ability of future generations to meet their own needs." Abandoned land mines, unplanned mining in open areas and other unplanned mining activities which are not environment friendly, affects human health. Many organizations have brought these issues

into public focus through their publications and campaigns. The lecture briefly highlights present mining scenario, global mining initiatives and best mining practices.

Hutti-Kalburgi Chapter **INDIAN MINING DAY CELEBRATIONS**

On 1st November 2022, the Indian Mining Day was observed by Hutti-Kalburgi Chapter at Group Vocational Training Centre, Hutti Gold Mines Co. Ltd. at 4.30 PM.

As a Customary beginning, Sri Kumar Singh welcomed the following on the dais.

- Shri. P. Suresh Agent & Sr. Manager(Mine), New Projects, HGML
- Madainvidyathri I/c DGM Metallurgy Dept., HGML
- Shri. umesh Narnal Sr. Manager (Engineering Dept) HGML
- Dr. Sanjeev Solanker I/c Manager (Exploration Dept) HGML

and started the program by lighting the lamp. The IMD pledge was converted into local language kannada and narrated by Sri. T. Jagdeesh, to all MEAI members. Sri. Kumar Mohan Singh spoke briefly on the theme “Sustainability & Circular Economy”.

The dignitaries on the Dias presented Life-Membership Certificates to all the newly enrolled life members (31 members) of the Chapter.

The programme ended with a vote of thanks proposed by Sri. Jagdeesh Dy. Manager (Mine).

Later on, all the members joined the Observation of Indian Mining Day through on -line.

Hyderabad Chapter

Indian Mining Day Celebrations were conducted by the Chapter at MEAI

Auditorium

Chief Guest of the function was Shri. Ch. Venkateswara Rao, Deputy Director General – GSITI. In the celebrations Shri. V.S. Rao, Shri. Md. Fassihuddin, Shri. Surendra Mohan, Shri. V. Laxmi Narayana & Shri. M.O. Sarathy and over 30 MEAI members and 30 Students from Malla Reddy Collage and JBIT College participated in the IMD function. Prizes were presented to the winners of Essay writing and Elocution competition held on the IMD theme during the function. Senior members like Shri. V.S. Rao, Shri. Md. Fassihuddin and Senior persons addressed the members.

Shri. M.S. Venkatramayya, Vice Chairman of the Chapter addressed during the IMD Celebrations. Shri. B. Mahesh,

Secretary of the Chapter, read out the IMD pledge which was recited by the members.

During the celebrations Shri. P. Ranganatheeswar, winner of “Gullapalli Sarla Devi Memorial Award” for the year 2021-2022” was presented a memento by the Chief Guest and Shri. MEAI dignitaries presented Surendra Mohan, winner of Service Excellence Award 2021 – 2022, a memento.

Jabalpur Chapter

INDIAN MINING DAY CELEBRATIONS: SATNA CEMENT WORKS

Indian Mining Day was celebrated at Sagmania Limestone Mines of Satna Cement Works, Birla Corporation Ltd on 1st of November under the aegis of Jabalpur Chapter.

The program started with an inaugural message by Mr. Rajesh Chaubey (AVP Mines, SCW) & Mines Manager Mr. Kumar Rajan (GM Mines, SCW). The agenda was delivered regarding the complete event. Mr. Amol Dhomne (Sr. Manager Mines, SCW) did a technical paper presentation on Artificial intelligence and its key role in the Mining Sector. Mr. Kumar Rajan briefed about the importance of Digitization in Mining.

Technical quiz was organized amongst the staff and the winners were recognized with rewards. Mass plantation was organized for the long life of Mining day. Everybody took part in the function with positive note and ended with safety in mining in day to day operation. The Event ended with a Vote of Thanks proposed by Mr. Umesh Pandey (Manager Blasting, SCW).



Nagpur Chapter Indian Mining Day 2022 -TECHNICAL PAPER MEET

The Indian Mining Day for the year 2022 has been celebrated by the Nagpur chapter on 1st November 2022 at the premises of Indian Bureau of Mines, Nagpur. To commemorate the Indian Mining Day, the first technical paper meet in a series of activities of the Nagpur chapter was organized by the newly elected Executive Committee of the Chapter on 1st November 2022 at Conference Hall, 3rd Floor, Indira Bhawan, Indian Bureau of Mines, Nagpur under the chairmanship of Shri P.N. Sharma, Chairman of the Chapter.

As conveyed by the National Headquarters and Secretariat of Mining Engineers Association of India, Hyderabad, the theme for the Indian Mining Day for the year 2022 was "Sustainability & Circular Economy". Therefore, considering the recent trends and technological upgradation in the mining sector, the Chapter has thought of organizing a paper meeting on the "Application of Drone Technology in the Mining Sector". Accordingly, the Indian Mining Day-2022 has been celebrated with a lecture as well as power point presentation on the said topic. Shri S.K. Adhikari, Chief Mining Geologist, IBM was invited to deliver the lecture on the topic. All the members of the Nagpur Chapter, representatives of various mining industries, officers from local government agencies and IBM officials were invited. Large number of audiences amongst the MEAI members attended the technical paper meet.

Considering the adoption of recent trends in the mining sector and requirement of drone application, the lecture was quite interesting and interactive with a question answer session. The dignitaries on the dais were Shri P.N. Sharma, Chairman of the Chapter and Chief Controller of Mines as Chief Guest, Shri Pankaj Kulshrestha, Chief Controller of Mines as the Guest of Honour and Shri S.K. Adhikari was the Guest speaker. Dr. Y.G. Kale, Honorary Secretary of the Chapter conducted the programme.

At the outset Dr. Y.G. Kale welcomed all the members and dignitaries present and delivered the welcome address of the paper meet. On this occasion Dr. Kale briefed the participants about the history of Indian Mining Day. Dr. Kale informed that the Mining Engineers' Association of India (MEAI), a national professional body with more than 5,000 mining engineers, geoscientists and allied technologists, is taking lead in observing Indian Mining Day to discuss about the present scenario, technological advancement, discussing the various issues related to mining industry and for future developments. On this occasion on behalf of all the Members he also read out the Indian Mining Day pledge.

Shri P.N. Sharma also addressed the gathering and focused on the topic of discussion. He advocated the importance of applications of drone surveys in the mining sector and how it can be a win-win situation for all the stakeholders.

While delivering the lecture, Shri S.K. Adhikari mainly focused on the various modules of application of drones in mining sector and procedure to process the data captured by the drones. While delivering the lecture he also highlighted a few successful case studies. The topic was quite informative in view of technology adoption. Shri Arun S. Chachane, Hon. Joint Secretary of the Chapter has taken all efforts to organize the programme successfully. The programme was concluded with a vote of thanks proposed by Shri A.D. Selokar, Treasurer of the Chapter.



(L-R): Dr. Y.G. Kale delivering a welcome address. Shri Pankaj Kulshreshtha, Shri P.N. Sharma, Shri S.K. Adhikari and Shri R.C. Sanodia, Ex-Chief General Manager, WCL & Vice-Chairman sitting on the dais



Welcoming the Speaker Shri S.K. Adhikari by Shri Parag Tadlimbekar, Superintending Mining Geologist, IBM



Welcome address by Dr. Y.G. Kale



Shri S.K. Adhikari presenting on the topic



Dignitaries present during the Technical Paper Meet



Dignitaries present during the Technical Paper Meet



Question Answer session during the Technical Paper Meet



Felicitation of Shri S.K. Adhikari by Shri P.N. Sharma

Rajasthan Chapter – Jaipur **Indian Mining Day Celebrations**

Indian Mining Day 2022 was celebrated by Rajasthan Chapter - Jaipur at Mining Welfare Centre, which was attended by members from Jaipur and outstation. The IMD Flag was unfurled by the chapter chairman Shri Anil Mathur. IMD Pledge was administered by the Chapter secretary Shri K. S. Yadav.

Shri G. K. Jangid, RCOM, IBM, Ajmer & member MEAL NC and Shri Surjeet Katewa, Director Mining (Officiating), DGMS, Ajmer were the honorable guests on the occasion to speak on the theme of the year “Sustainable Mining and Circular Economy”.

Chapter Chairman, while greeting the honorable guests, presented the National Council badge to Shri Jangid and LM Lapel pin to Shri Katewa. Shri P. C. Bakliwal, NC member and past Chairman of the Chapter welcomed the guests with angavastram and green welcome was extended, with planters, by Dr. L. S. Shekhawat, Chapter’s Vice Chairman.

Chapter Secretary Shri Yadav, in his welcome address, briefed about the IMD. He shared with members that Indian Mining Day is observed by MEAL, across the country, through its chapters and Headquarters, on 1st November every year, to celebrate the enormous contribution of mining and allied industries towards national growth. It is to remind us to be proud of our profession and strive hard to cater to national mineral requirements. Shri Yadav highlighted sustainable mining by citing some of the best mining practices/success stories. He emphasized the interlinking of sustainable mining with a circular economy by including the mine waste dump inventory.

Shri G.K. Jangid, in his address, stressed upon proper waste dump management, aiming at Zero Waste mining. He also highlighted the procedure of utilizing the sub grade and other mine waste as minor minerals citing the provisions of rule 12 (k)(I) of Mineral (OTAHEM) Concession Rules 2016.

Shri Surjeet Katewa expressed his views about Blast induced menace like vibration, air blast & fly rocks. He also stressed regular blast monitoring & dust suppression measures and silicosis threat.

Shri M. C. Goyal, Retd. Additional Director of DMGR & past chapter Vice Chairman of the Chapter highlighted the problems of small mines & mining clusters.

It was a true interactive session wherein all the members present actively participated in the proceedings by sharing their views on this year’s theme. Outcome of the fruitful discussion is listed below:

- Need for Mine waste Dump inventory with GIS information about its quality & quantity
- Need for Trace element analysis
- Need for adequate size & Geometry of lease area to work systematically & Sustainable manner
- Effective arrangement for dust suppression at the source itself by adopting latest technology to eliminate occupational hazards like silicosis
- Regular Monitoring of Blast induced ground vibrations
- Use of Non-explosive techniques for rock fragmentation

Celebrations concluded with a vote of thanks offered by Chapter Vice Chairman Dr. Shekhawat and followed by Lunch.



Shri G. k. Jangid, welcomed on arrival, by Shri Anil Mathur with an IMD Flag inspired Rangoli in foreground.



IMD Flag unfurled by Chapter Chairman Shri Anil Mathur



Green Welcome with planters, by Dr. L. S. Shekhawat



IMD Pledge administered by Chapter Secretary Shri K. S. Yadav



Address by secretary Shri K. S. Yadav



Council Member badge presented to Shri Jangid



Address by Shri G. K. Jangid



LM Lapel pin presented to Shri Katewa

Rajasthan Chapter-Jodhpur Indian Mining Day Report

MEAI has been observing the Indian Mining Day on 1st November every year by organizing an awareness program highlighting the importance of Mining & Mineral Industry and its role in the economic development of the country. This year also Indian Mining Day was celebrated in a grand manner by the Chapter on 1st November, 2022 on theme “SUSTAINABILITY AND CIRCULAR ECONOMY” at Seminar Hall, Department of Mining Engineering, MBM University, Jodhpur, Jodhpur.



Traditional welcome of guests by Shri P C. Bakliwal

The program started with Saraswati puja followed by hoisting of IMD flag and pledge received from HQ by all attendees. Prof S. K. Parihar, National Council Member, MEAI welcomed the chief guest, keynote speakers, dignitaries and all the attendees and taking an oath of pledge with all attendees for betterment of society through mining fraternity.

First keynote address was delivered by Dr P. C. Purohit, Former GGM, RSMML Ltd on sustainable mining practice in India and explained the concept of circular economy. Er Suryanshu Chaudhary, GM (Mine Planning), GMDC Ltd, Ahmedabad gave the second keynote address with practical examples on sustainable mining at Adani group in online mode. Chief guest Brigadier A.S. Rathore, CMD, FAGMIL, GOI undertaking, Jodhpur presented his insights on the theme “SUSTAINABILITY AND CIRCULAR ECONOMY”.

In an essay competition, the top three winning students were awarded with Rs. 2500, 1500 and 1000 each and a merit certificate, respectively. Prof. S. Bhandari and Prof. D.M. Surana distributed the prizes. On this occasion Prof. D.M. Surana presented mementos to the Chief Guest and Keynote speaker. Er. R. S. Rathore presented a vote of thanks. The Program ended with the singing of national anthem.

Over 120 members and students participated in the IMD celebration. Prof. S. Bhandari, Prof. D.M. Surana, Er. V.S. Mathur, Er. P.C. Dhariwal, Er. P.R. Dave, Er. K Dutta, Prof. V.S. Palria, Er. Praveen Agarwal, Er. Ankush Saxena., Er. P.P. Mathur, Er. S.R. Rathore, Er. C.S. Khichi, Er Rajeew Choudhary, Dr. P.K. Rajmeny, Er. M.C. Tater, Er. S.S. Patel, Dr. R.P. Choudhary, Er. Rakesh Purohit, Dr. S. L. Borana, Dr. S. Yadav, Er. A. K. Jain and other distinguished members of MEAI, MBM college students and executives of PSUs RSMML, FAGMIL etc. were present in the event. Program was anchored by final year students Sohan Ram and Riya Sharma. Prof. N.K. Khandelwal, Sh. A.K. Jaiswal and many other dignitaries joined the program in virtual mode.



Welcome address by Prof. S. K. Parihar



On the Dias Prof S. Bhandari, Brigadier A.S. Rathore, Prof. D. M. Surana, Prof. S. K. Parihar



Keynote address by Dr. P. C. Purohit



A section of audience



A section of audience

Rajasthan Chapter-Udaipur

Indian Mining Day Celebrations held on 1st November, 2022 at Jhamarkotra Mines, RSMML Ltd., Udaipur
Theme of the year: “Sustainability & Circular Economy”

The Indian Mining Day was celebrated on 1st November 2022 by the Rajasthan Chapter-Udaipur in association with Rajasthan State Mines & Mineral Ltd. at Jhamarkotra Mines with great enthusiasm and zeal. MEAI invited all the stakeholders including eminent mining engineers, mine owners, stack-holders of the region to witness the occasion. The theme for this year was “Sustainability & Circular Economy”.



(L-R) Sh DD Shripat, Ex- GGM (Mining) RSMML, Sh RK Sharma- RSMML, Sh Rajneesh Purohit, Controller of Mines, Gol, Sh MS Paliwal, Chairman of the Chapter, Sh Praveen Sharma, Head Mining, COE, HZL, Sh RP Gupta, Patron & Sh Asif M Ansari, Secretary of the Chapter

On this occasion, a function was organised under the chairmanship of Sh MS Paliwal, and Chief Guest was Sh Rajneesh Purohit, Controller of Mines, Indian Bureau of Mines, Udaipur. Sh Praveen Sharma, Sh RP Gupta, Sh RK Sharma, Sh DD Shripat were guests of honor.

Sh AK Kothari, former National President, MEAI administered the oath to all present in the hall to adopt Best Scientific Methods & Practices, to prospect, Produce and Preserve the one-time crop from mother earth in the form of valuable mineral resources for the Probity and Prosperity of our nation.



Pledge administered by Sh AK Kothari, Former President, MEAI

Sh MS Paliwal, Chairman, MEAI-Udaipur welcomed the guests and informed that MEAI is providing unique services to the mining industry to support scientific and technological development as well as sustainable mining. In addition, Indian Mining Day is celebrated every year by MEAI all over India with the objective of discussing the current scenario of mining, technological progress, various issues related to the mining industry and to discuss the future development.



On this occasion a book on “A Journey Through The Life Cycle of A Mining Project”. Written by Dr. Ranjit Choudhuri was released by all dignitaries.



On this occasion, a technical presentation was made on the topic of “sustainability and circular economy at Jhamar Kotra mine” by Mr. Sanjeev Boda, Manager Planning in which he briefed the journey of Rock Phosphate since 1947 (BGL) to till date (RSMML) He highlighted on environment, energy conservation and sustainability and circular economy of Rock Phosphate Mines. He further explained in detail how

low grade phosphate is beneficiated to convert it into high grade and how from the waste generated in the mine is made useful for making M-sand.

Sh Praveen Sharma, Head Mining - COE-HZL & Ms Shama Jain made a technical presentation on the topic of “sustainability and circular economy of Hindustan Zinc Ltd.” and briefed about the transformation journey of 2000 years old LEAD and Zinc to present Hindustan Zinc Ltd. about exploration, exploitation, stoping, Loading and Hauling and also the beneficiation ore and sustainability and circular economy. Ms Shama Jain of Hindustan Zinc Ltd has also highlighted the sustainability and circular economy, ESG, Climate Change, De-carbonization, Renewable energy, Solar Power, Turbine energy, Electrical Vehicles. She further, briefed about water positivity, Circular Economy, Biodiversity Conservation viz Green belt development, Waste dump plantation, Diversity workforce.



The Secretary of the Association, Sh Asif M. Ansari informed about organizing an article and poster competition on the topic of sustainability and circular economy in mines, in which five college students participated. Prizes and certificates were presented during the function. Sh RP Mali, declared the results in which first prize in the poster competition was awarded to Mr. Daksh Jagetiya with a certificate of merit and Rs.2000 cash prize. Mr. Arsal Siddiqui of CTAE stood first in the article competition and a cash prize of Rs. 3100 was given. Second prize, a cash prize of Rs. 2100 was given to Mr. Adnan Siddiqui of CTAE and third prize was awarded to three students Mr. Nilesh Gurjar of CTAE, Mr. Hitesh Patel of CTAE and Ms. Khushi Gandhi of Singhania University, Udaipur with a cash prize of Rs. 1100.



Prize distribution to the participants of Essay Article & Poster competition.



Sh RK Sharma, RSMM Ltd. congratulated all the guests who participated in this function and offered all support from RSMM to the mining fraternity.



On this occasion the Chapter felicitated S/Sh DD Shripat, Ex- GGM (Mining) RSMML & Sh NK Kothari, Ex-Addl. DMG on their recent superannuation from the service.



Sh Rajneesh Purohit, Controller of Mines, Indian Bureau of Mines congratulated MEAI and RSMM Ltd. for celebrating

the Indian Mining Day with great zeal and enthusiasm. Regarding sustainability and the circular economy in the mining sector, we are having world class organizations like Hindustan Zinc Ltd. and Rajasthan State Mines and Minerals, he said. He appreciated the presentation on sustainable and circular economy by HZL & RSMM Ltd. The best example of a circular economy is how the waste is converted into best. We should talk about total product management.



Over 75 mining engineers and geologists participated on this occasion. During the mines visit, various aspects of mining were discussed with the officials of RSMM, such as mine planning, exploration, beneficiation of ore etc. RSMM officials explained about mineral exploration, which is currently being done by MECL, to find out the depth of the mineral and to increase the reserves. RSMM is planning to start manufacturing M-sand from overburden/ waste rock for which three plants are under installation. In addition to this, various mining techniques were discussed. Prior to mines, fossils Park of stromatolite (Rock Phosphate) was visited by all participants.





At the end of the program, Sh Asif M. Ansari extended thanks to all the guests and participants and to RSMML management to make this Indian Mining Day a grand success. Dr. Sunil Vashisht of Hindustan Zinc Ltd. anchored the program.



Singareni Chapter

Singareni chapter celebrated Indian Mining day on Nov 1st 2022 in association with the Dept of Mining Engineering, UCE, KU by conducting competitions among Mining students for Quiz, Essay writing, poster presentation and Mine photo competitions. Prizes were distributed for the winners and runners up of the competition.



A view of the Audience present in the Indian Mining Day Celebration

On this occasion a sizeable plantation was also carried out in a befitting manner by all the dignitaries. Tulsi Sapling was presented to all as a gift by RSMML management.

On this Occasion, Dr. Punnam Chander, Principal, UCE; Shri Ch. Narasimha Rao, Vice Chairman and Shri. A.L.S.V. Sunil Varma, Secretary of the Chapter were present. It was highlighted by all the speakers about the vitality of the mining sector in every aspect of human life and challenges posed by mining in safety and health and the need to improve upon them with the aim of Zero harm.



Address by Shri. Ch. Narasimha Rao



Address by Shri. A.L.S.V Sunil Varma





Prize distribution to the winners and runners up of competition



MEAI members and Students attended on 1st Nov 2022

**Tamilnadu Chapter
Indian Mining Day celebrations**

Indian Mining day was celebrated in Tamilnadu by the members of the Tamilnadu chapter in a grand manner at Chennai, Ariyalur, Pandalgudi, Karikali and Sankari. Various events like Flag hoisting, Pledging, Blood donation camp, Medical camp, Tree Plantation, Awareness program to School children, Various Trade test for Miners, Training program on safety and health to Miners, honouring the senior/retired Mining persons, Inviting the cement plant heads as Chief Guests to the function, Prize distributions etc were carried out with active involvement of all cement companies, mine owners and mine employees.

Anna University college students, under the leadership of Prof Dr. Balamadeswaran, actively participated in celebrating the Indian Mining day in the evening hours after heavy rainfall. All cement companies in Ariyalur under the leadership of Mr. G.R.Magesh, General Manager (Mines), TRCL jointly organized the celebration of Indian Mining day in a grand manner and a High lunch was arranged for more than 100 persons who participated in the program. The unit head of M/S Chettinad Cement Corporation Private Limited Shri R.P.Muthiah and Unit head of M/S Dalmia Cement Bharath Limited Shri K. Vinayagamurthy were present as chief Guests for Inaugural and Valedictory function respectively to grace the occasion. In addition, Mr. Radha krishna Kanth, AGM Mines and his team; and Assistant Director of Geology and Mining, Trichy along with her team planted tree saplings at Kallakudi Mines of Dalmia Cement Bharat limited, Dalmiapuram.

Ramco Cements, Pandalgudi under the leadership of Shri Jagadish babu, Sr. General Manager (Mines) involved the school children in celebrating Indian Mining day and conducted a rally to promote awareness in public and school children. Also conducted medical camp, donation and distribution of freebies to needy people.

India Cements, Sankari under the leadership of Shri S.Natarajan, chief Manager (Mines) along with small mine owners, Salem celebrated Indian Mining day and honoured the retired and senior Mining veterans. Shri A. Veerabagu, Unit head of M/S The India Cements Limited and Mr. Krishnamurthy, Secretary of Salem small mine owners' association were present as Guests to grace the occasion.

Chettinad Cements, Karikali works under the leadership of Shri M. Mayilrajan, General Manager (Mines) celebrated Indian Mining day along with all their workmen and mine officials in a remarkable manner. Shri V. Krishnan, Unit head of M/S Chettinad Cement Corporation Private Limited was present to grace the occasion.

All the senior members and Chairman of the Chapter and President of MEAI appreciated the way the Tamilnadu Chapter celebrated the event and congratulated them.



AD Mines at Dalmiapuram



Anna Univ Students



Anna Univ



Ariyalur blood donation camp



Karikali 2



Ariyalur chief guest



Karikali 3



Ariyalur Oath



Sankari Unithead



Ariyalur prize distribution



TRCL Pandaludi



Ariyalur training session



TRCL, Pgudi Medical camp



Concluding session



ICL, Sankari



TRCL, Pgudi



Karikali 1

**Veraval-Porbandar Chapter
Indian Mining Day 2022 Celebrations**

A gathering involving mining engineers, geologists, safety and environmental experts as well was made at Ambujanagar. Mr. Umesh Reddy, Asst. Manager , Ambuja cements Ltd started the meeting with a welcome note and then requested Mr. Ajay Kumar Jain, Chairman of the Chapter, for conducting further proceedings. The importance of celebrating the Indian Mining Day was briefed. He also briefed on the theme of the Indian Mining Day - “Sustainability and Circular economy”. Mr. Mahesh Kumar Jain, Head of mines in Ambuja Cements said that reclamation and restoration plays a major role in doing eco-friendly mining. There were discussions on various topics including the inter-relationship between mining and environment departments. Children submitted their skillful posters about sustainability. Sweets were distributed to the gathering at the end of the meeting.

After that, there was a virtual celebration of Indian Mining Day at chapter level through google meet.

- V Umesh V Reddy gave a welcome note and briefed on the Indian Mining Day and the theme of the IMD 2022.
- Mr. Ajay Kumar Jain, Chairman of the Chapter, conducted IMD pledge and gave a note on the importance of the IMD. He said that MEAI provides a platform for discussing various industrial issues and trying to fix them.
- C M Dwivedi, Secretary of the Chapter gave a presentation on the theme of the IMD 2022 “Sustainability and Circular economy”. He explained the above concept highlighting the Gujarat region. He briefed about the difference between the linear and circular economy. He also explained about the 3R principle of the mining circular economy.
- Manish Kumar Yadav, Vice Chairman of the Chapter briefed on the importance of social media for publicizing the welfare activities done by the mining industry to the nearby society for increasing positivity in the nearby locality.
- Suryanshu Chowdary, Head of Mine planning in GMDC gave a presentation on “Pragmatic approach to resource evaluation”. He explained the geostatistical concepts involved in the mineral estimation. He briefed on the process chart of resource evaluation, which involves informing data, data analysis, resource estimation and project completion.
- Open talk with the audience related to the existing problems in the industry like use of undersized minerals of Soda Ash Industries, Training for new mining engineers, drone survey utilization, women employment in mines were discussed.
- Shri S N Mathur, Vice President - MEAI, Manish kumar yadav, Mahesh Kumar Jain and engineers from various organizations of Saurashtra Mineral Industries graced the meeting.

- Mr Rohit Gaur, Mines Head, Tata Chemicals Limited gave Vote of thanks.



Presenation by Mr VUV Reddy



Mr Mahesh Kumar Jain's talk on Sustainability



Presentation by Mr Suraynashy Choudhury



Address by Mr Mahesh Kumar Jain



Talk by Mr Ajay Kumar Jain

TSIC: The Consulting Arm of TATA Steel

We are Practitioners and Subject Matter Experts: Leveraging Practical Experience to execute Proven Solutions

TATA Steel's Natural Resources Division is equipped with a large group of experienced Geologists, Mining Engineers, Surveyors, Chemists & Sampling technicians with a great acumen & insights in the area of Exploration, Mine Planning, & Quality Assurance.

Our offering includes:



Exploration Services:

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MEAI NEWS

6TH COUNCIL MEETING OF MEAI

held on 19.11.2022 at Yellandu Club of M/s. SCCL, Kothagudem

The 6th Council meeting of the Association was held on 19th November 2022 at 5.00 PM at Yellandu Club of M/s. SCCL, Kothagudem. The Singareni Chapter hosted the Council meeting.

The office bearers of the Association Shri. K. Madhusudhana – President, Shri. S.N. Mathur, Vice President – I, Shri. M. Narsaiah, Secretary General and Shri. B.S.P. Raju, Jt Secretary cum Treasurer and Council members namely, Shri. D. A. Hiremath, Shri. V. Lakshmi Narayana, Shri. Deepak Vidyarthi, Dr. T.N. Venugopal, Shri. A.R. Vijay Singh, Shri. K. Prabhakara Reddy, Shri. M.S. Rachappa, Shri. B. Surendra Mohan, Shri. G. Dhananjaya Reddy, Shri. K. Laxminarayana, Shri. P.T. Hanamgond, Shri. A.L.S.V. Sunil Varma and Shri. Amit Gholli attended the meeting.

In the meeting, the confirmation of the minutes of the 5th Council Meeting and ATR were discussed. The Council discussed the appointment of Returning officer and his team for conducting the Association's elections for the term 2023-2025 along with other important matters.

The meeting ended with a vote of thanks proposed by Shri. B.S.P. Raju.



Shri. K. Madhusudhana, President, addressing the Council



(L-R): Shri. M. Narsaiah, Shri. K. Madhusudhana, Shri. S.N. Mathur and Shri. B.S.P. Raju participating in the 6th Council Meeting.



Members that attended the 6th National Council Meeting

BELLARY HOSPET CHAPTER

Cricket Tournament, Quiz & Essay Writing Competition



Bellary Hospet Chapter organized MEAI premier league on 16th October 2022 on the occasion of Indian Mining day at Sandur Residential school ground, Sandur. This premier league was started last year to promote the Chapter's activities under the guidance of its Chairman & other senior members of the Association.

We had Shri. Niraj Raval, Vice President (P&CE) of SMIORE was the Chief guest for this event. We had Shri. K Prabhakhara Reddy, Chairman of the Chapter, Shri. P. Sreenivasa Rao, GM M/s. BKG Mining Private Limited as the Guests of Honour. Shri. K. Madhusudhana, President of the Association could not attend the event because of his preoccupation. He conveyed his message to all the members to participate in the event to make it successful.

Shri. Niraj Raval in his speech emphasized the importance of sports, especially cricket, which helps in team building. These activities provide an opportunity to meet each other belonging to different companies. Further, he added the importance of being fit, which is found very important in recent days. Shri. K Prabhakara Reddy expressed his thanks to all the participants and also the sponsors who extended support in organizing the event in a grand manner. He wished all the participants to play well in a positive spirit. Shri. P Sreenivasa Rao, GM M/s. BKG Mining Private Limited in his address told how cricket is worshipped and it has become a religion in India. He also expressed the importance of these kinds of activities, which will really bring positive changes in the members. He advised to take care of Safety while

playing and the other non-playing members while cheering up the players.

Total six teams were made under the captainship of Shri. Mallikarjun S H M (Team A), Shri. K Prabhakara Reddy (Team B), Shri. P Sreenivas Rao (Team C), Shri. Bharath Kumar RS (Team D), Shri. YVR Krishna Reddy (Team E) and Shri. PV Rao (Team F). First match was played between Teams F & B, Second match was played between Teams D & E, Third match was played between Team A & C. Team A, D & B were qualified for the next round. Team B entered the finals directly through lucky dip. Semifinal match was played between Teams A & D. Team A entered the finals by beating Team D.

The final match was played between Teams A & B led by Shri. Mallikarjun SHM (Team A) & Shri. K Prabhakara Reddy (Team B). Team B won the league by defeating Team A. All the players gave their best in the matches. There were some outstanding performances in bowling, batting & fielding. This year members of student's chapters were also allowed to participate so that they can get an opportunity to play with seniors in the sector. Work of grounds man & umpires were appreciated and mementoes were presented in recognition of their work in organizing & conducting the matches without any issues. The total gathering was around 125 members excluding the other visitors & spectators. Lunch & High tea were arranged for the participants and also the visitors. Trophies & individual awards for the winners will be given during the Indian Mining day, which will be celebrated at Sandur Vocational Training Centre.

The event was sponsored by M/s. Sandur Manganese & Iron Ore (SMIORE), M/s. Vesco. M/s. Zeenath transporting Company, M/s. P Balasubba Shetty & Sons and M/s. Sri. Kumar Swamy Minerals Exports Private Limited (SKMEPL). Mining Engineers Association of India (BH Chapter) is thankful to the Management of all the sponsors for their interest & support in organizing the event in a very grand & successful manner.

The **QUIZ COMPETITION** program was conducted on 20.10.2022 at TMAES Polytechnic College among Students of Diploma Mining Engineering and Diploma Metallurgy Engineering of TMAES Polytechnic, Hosapete. 28 students participated in the Quiz Competition.

The **ESSAY WRITING COMPETITION** was conducted in view of the Indian Mining Day on the theme “**Sustainability & Circular Economy**” among the Students of Diploma Mining Engineering, Diploma Metallurgy Engineering of TMAES Polytechnic, Hosapete & Post Graduation in Applied Geology of PG Centre, Nandihalli Sandur on 22.10.2022 at TMAES Polytechnic.

In view of the Indian Mining Day, a **QUIZ COMPETITION** was conducted online on 22-10-2022 among Mine Foreman and below category of Candidates, Asst. Manager category of Candidates and Spouse/Children of MEAI Members category. The following excelled in the Quiz completion under three different categories.

Quiz	1 st	2 nd	3 rd
Asst. Manager / Geologist/ etc.	Prashanth Vidam	Jitesh Gorfad	Dhruva Kumara B Y
Foreman and Below Foreman Quiz	V R Darshan	Gajjala Partha Saradhi Reddy	Azar Mohammad M
Spouse/Children	S Jayalakshmi	Tejashree Kalva	Vaishnavi
Quiz			
Students	K Vamshikrishna	Jayanna H	Raja
Essay Writing			
Students	J Pavan Kalyan Reddy	Avinash Kumar H	Krishna H



ONGOLE-VIJAYAWADA CHAPTER

Inauguration of New Chapter

Mining Engineers Association of India's 27th Chapter "Ongole-Vijayawada" at Ongole has been inaugurated on 6th November 2022 by Shri V.G. Venkata Reddy, Director of Mines & Geology, Govt of Andhra Pradesh and VC & MD of APMDC. The inaugural function was presided over by Shri. K. Madhusudhana, President MEAI. Shri. M. Narsaiah, Secretary General, Shri. B S P Raju, Jt Secretary cum Treasurer, Shri. K. Prabhakara Reddy, Chairman – Bellary Hospet Chapter were also present.

The President of MEAI Shri. K. Madhusudhana installed the Ongole – Vijayawada Chapter's Executive Committee as:

1. Shri. K. Subhaskar Reddy, Chairman
2. Shri. C Y Gurudu, Vice Chairman
3. Shri. Sarat Chandra Babu, Secretary
4. Shri. Srinivas, Jt Secretary cum Treasurer

The meeting was attended by many officers from DMG, Govt. of Andhra Pradesh, mines owners and around 150 mining professionals working in the Ongole region.



Shri. K. Madhusudhana felicitating Shri. K. Subhaskar Reddy with Chapter Chairman Medal



Shri. K. Madhusudhana, Shri. V. G. Venkata Reddy, Dr. K. Subba Reddy- President of Granite Owners Association, Shri. Srinivas Rao- JDM & G and other dignitaries



Shri. K. Madhusudhana presenting copy of MEJ to the Chief Guest Shri. V. G. Venkata Reddy and other dignitaries

TAMILNADU CHAPTER

One day colloquium on Healthy and Sustainable Mining held on 19-10-2022

One day Colloquium on "Healthy and Sustainable Mining" was organised by MEAI-Tamilnadu Chapter on 19.10.2022 at Savera Hotel Chennai. Shri K.S.S.V.P. Reddy, IFS (Retired), Expert Committee member, SEAC, Tamilnadu was the chief guest of the program and Prof. Dr. G.Nagarajan, Ph.D, Head of Mining Engg Dept, Guindy Engineering College, Anna University was the Guest of Honour.

Dr. Ifthikhar Ahmed, Ph.D, Chairman of TN Chapter presided over the program. Senior members Shri K.S.Anandhan, Shri Kumarasamy, Shri Balamadeswaran, Shri. M.Palanikumaresan, Shri. G.R. Magesh were the special invitees of the program. Dr. G. Jayaraj, Managing Trustee, Occupational health services, Chennai presented a Technical paper on Labour Code 2020 and the health issues of miners.

Mr.Mallikarjun A Kambalyal, CEO of Sunshubh Technovations Pvt Ltd presented a Technical paper on Energy audit of Mining Machineries. Anna University Mining Engineering Students also actively participated in the program. More than 50 delegates participated and got benefitted from the Colloquium.



Dr. Ifthikhar Ahmed, President, MEAI-TN Chapter honours Chief Guest Shri K.S.S.V.P. Reddy, IFS, Expert Member, SEAC, Tamilnadu



Chief Guest Shri K.S.S.V.P. Reddy delivering his speech



Guest of Honor Dr. G. Nagarajan, Prof and Head of Mining Engg. Dept., Anna University delivering his speech

LIST OF LIFE MEMBERS APPROVED IN THE 6th COUNCIL MEETING

L M No	Name	Chapter
6082	Mr. Gangireddy Pavan Kumar Reddy	Rayalaseema
6083	Mr. Agrodeep Kundu	Kolkata
6084	Mr. Venkata Suresh Reddy Katikireddy	Rayalaseema
6085	Mr. Rakesh Kanthed	Udaipur
6086	Mr. Shantilal Ahari	Udaipur
6087	Ms. Mansi Parmar	Udaipur
6088	Mr. V N S Prasad Mantri Pragada	Singareni
6089	Mr. Marikanti Suresh	Singareni
6090	Mr. Mittapalli Gangadhar	Singareni
6091	Mr. Sathish Kumar M	Tamilnadu
6092	Mr. Shivaram K	Belgaum
6093	Mr. Balagokul T	Tamilnadu
6094	Mr. Vinayaka B S	Bangalore
6095	Mr. Alagu Kannan P	Tamilnadu
6096	Mr. Kevalkumar Savani	Ahmedabad
6097	Mr. Santosh Kumar Srivastava	Jaipur
6098	Mr. Sanjeev Kumar	Kolkata
6099	Mr. Kuldeepsingh Devisingh Mahawar	Ahmedabad
6100	Mr. Gevariya Darpan bharatbhai	Ahmedabad
6101	Mr. Bhadresh R Prajapati	Ahmedabad
6102	Mr. Bambhaniya Suraj Manjibhai	Ahmedabad
6103	Mr. Gajera Akshaykumar Chandubhai	Ahmedabad
6104	Mr. Nilesh Lakhmanbhai Chandra	Ahmedabad
6105	Mr. Chavda Raydebhai Deshurbhai	Ahmedabad
6106	Mr. Bhalsod Vishal Jentilal	Ahmedabad
6107	Mr. Patel Sunil Kumar Babulal	Ahmedabad
6108	Mr. Khambhati Faruk Hajibhai	Ahmedabad
6109	Ms. Thakkar Tanvi Manish	Ahmedabad
6110	Mr. Jignesh Kumar K Sonera	Ahmedabad
6111	Mr. Patel Vasantkumar Gordhandas	Ahmedabad
6112	Mr. Taushif Ismail Langa	Ahmedabad
6113	Mr. Vinay Kumar Singh	Ahmedabad
6114	Mr. Dushyant Shankerlal Pathak	Ahmedabad
6115	Mr. Patel Nirav Sureshbhai	Ahmedabad
6116	Mr. Bharadwa Ketan Maganbhai	Ahmedabad
6117	Mr. chirag Nathubhai Songara	Ahmedabad
6118	Mr. Nitin Dineshbhai Raval	Ahmedabad
6119	Mr. Tarun Natubhai Patel	Ahmedabad
6120	Mr. Narottam Dobariya	Ahmedabad
6121	Mr. Manoj Kumar Gaur	Jaipur
6122	Mr. Abhishek Panda	Barajamda
6123	Mr. Rohit Gaur	Veraval- Porbander
6124	Mr. Ashish Trivedi	Ahmedabad
6125	Mr. Chunchu Mahesh	Hyderabad
6126	Mr. Kushvahramveer satish Chandra	Veraval- Porbander
6127	Mr. Swaraj Mishra	Veraval- Porbander
6128	Mr. Chitti Ravi Kiran	Singareni
6129	Mr. Pranesh S R	Bangalore
6130	Mr. A Suresh Kumar	Bangalore
6131	Mr. M Thamizharasu	Tamilnadu
6132	Mr. Sumanth Bennihalli	Bellary - Hospet
6133	Mr. Santosh Kumar GK	Bellary - Hospet
6134	Mr. Sunil Kumar Ghorpade	Bellary - Hospet
6135	Mr. Dhanudhar K	Bellary - Hospet
6136	Mr. C. Chandrasekhar	Bangalore

(Continued from Page 10)

Lithium carbonate prices rose by around 496% in 2021, and have surged by over 100% year-to-date as of November 2022. Increasing EV demand and sales are driving prices from the demand side, with the lack of supply tightening the squeeze.

This year, lithium supplies have been affected by heatwaves in China, where some factories were temporarily shut down due to power shortages from drought-hit hydropower generation. From a broader perspective, it takes anywhere between three to five years for new lithium supply capacity to come online, making it difficult for suppliers to react quickly to rising demand.

Cobalt's high cost is largely attributed to how geographically concentrated its supply is. Around 70% of global mined cobalt production comes from the Democratic Republic of Congo (DRC). Furthermore, cobalt mining in the DRC is associated with several human rights issues, including child labor.

The majority of the most expensive battery metals are used to build the cathode. The cathode is arguably the most important part of the battery, determining performance, longevity, and range. Copper is the only non-cathode material on the list. Thanks to its excellent electrical conductivity, copper is used as a current collector for battery anodes, serving as a medium for electric current and an outlet for heat. On average, the cathode accounts for 51% of the cost of a single lithium-ion battery cell, largely due to the metals it contains.

What does this mean for EVs?

After falling by 89% from 2010 to 2021, lithium-ion battery pack prices are forecasted to rise this year, according to BloombergNEF.

Average battery pack prices are expected to increase from \$132 per kilowatt-hour (kWh) in 2021 to \$135/kWh in 2022. While the increase is small, if prolonged, it could delay price parity between EVs and gas-powered cars, which is projected to occur once prices fall below \$100/kWh.

In terms of the EV transition, higher battery metal prices could ultimately end up increasing the cost of the average electric vehicle, potentially becoming a speed bump to EV adoption. Consequently, an increase in battery metal supply and the subsequent stabilization in prices will be critical in keeping EV momentum on track.

Visual Capitalist - Elements | November 16, 2022



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MEAI PROFESSIONAL DEVELOPMENT PROGRAM (MPDP)-2nd COURSE

MEAI Headquarters

The 2nd COURSE of MPDP that was conceptualized by the President, MEAI, Sri K. Madhusudhana, was successfully concluded on 25th September 2022. The president was ably supported by the MEAI Training, Development & Program Committee comprising seven experts from Mineral Industry headed by Sri Deepak Vidyarthi, National Council Member.

Like the first course, the 2nd Course of MPDP was carried out with a lot of zeal and vigor for 6.5 days during the month of September 2022, on three consecutive week-ends running from 09:00 AM to 05:15 PM. The course was held Online on WebEx platform. Altogether 25 participants from 8 reputed mining organizations participated as 15 faculty members shared their invaluable knowledge through various case studies and group tasks. Presentations made by the faculties were duly lauded by the participants who endorsed by giving excellent feedback as it was an outstanding platform for knowledge-sharing!

Inaugural function was held on 9th September 2022 with a warm Welcome by Sri Deepak Vidyarthi followed by address by the Chief Guest Dr Prabhakar Sangurmath, Director, HGML, and Presidential address by the President, MEAI Sri K. Madhusudhana.

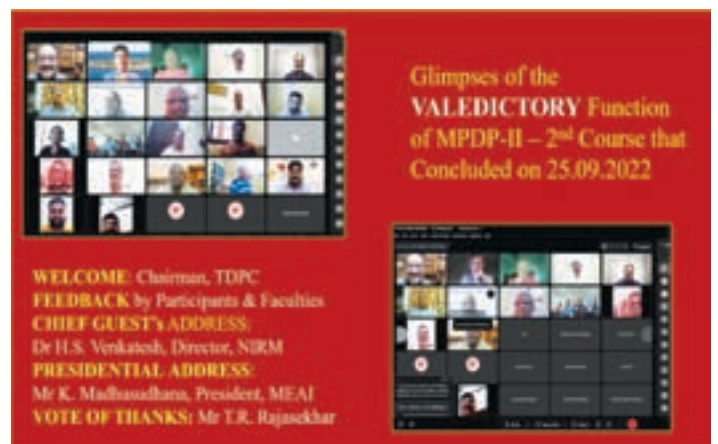
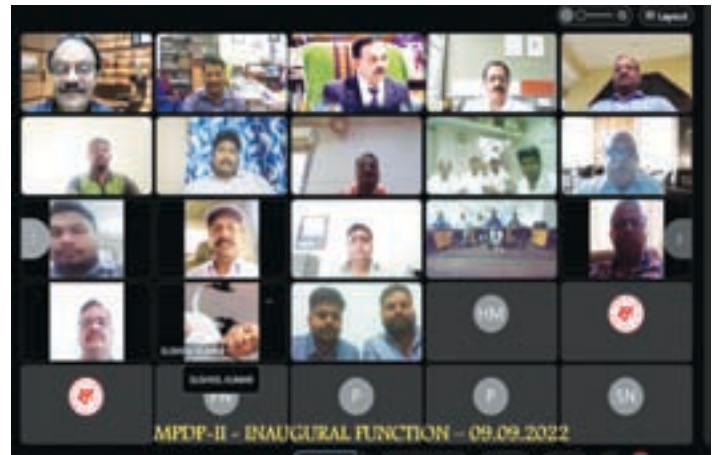
The course concluded on 29th September 2022 with an Assessment of the participants that was mandatory, followed by a well-organized Valedictory function Online! Dr H. S. Venkatesh, Director, National Institute of Rock Mechanics, Bengaluru graced the occasion as the Chief Guest.

A warm Welcome by the Committee Chairman, was followed by feedback by the participants and faculties. Participants' Feedback was as follows:

"The Course Was Very Well Coordinated and Was Much More Than Their Expectation"!

An exhilarating speech followed by the Chief Guest appreciating the entire course and hoping that such courses be continued online as well as off-line and he ensured full support from his organization, NIRM. The Presidential remarks then followed by an invigorating address by Sri K. Madhusudhana who promised to take the program further, extending to off-line courses depending on the prevailing circumstances.

The program concluded with a humble Vote of Thanks proposed by Sri T.R. Rajasekar, Consultant Mine Planning who acknowledged everybody's contribution in making MPDP a grand success! Special thanks to Mr. Deepak Gupta, Chairman, Delhi Chapter for arranging the course through WebEx and a word of appreciation for the Secretary General Sri. M. Narasaiah and Sri Anirvesh (HQ), for their excellent cooperation & support.



MEJ RIDDLES

Dear Readers of MEJ,

In order to increase the readership of MEJ, which has been felt essential in the interest of our ardent members, the mineral industry professionals as well as the mining sector, the Editorial Board of MEJ has decided to hold a monthly QUIZ. The monthly QUIZ will be designed and printed in MEJ based on the content published in the previous month's MEJ. The MEJ readers will be given five objective questions with multiple choices to choose; and expect them to respond with their correct answer by email to the Editor at editormejmeai@gmail.com by 20th of the current month. If more than three members responded with the correct answers, then the three winners will be decided by draw. Each winner will be issued a certificate of merit and a nominal cash prize of Rs 500.

Encourage the EMJ readers to participate in the QUIZ in large numbers and benefit from the enhanced knowledge by reading the Journal from the first to last page.

Questions based on MEJ November 2022 issue

- 1. Who presented the talk in MEAI Tech Series on 15-10-2022?**
(a) Prof K Ram Chandar (b) Prof BB Dhar
(c) Prof VR Sastri (d) Prof VMSR Murthy
- 2. How many countries represent CRIRSCO?**
(a) 14 (b) 13
(c) 12 (d) 11
- 3. What is the value of Global Indian Award presented by Canada in the year 2022?**
(a) \$65000 (b) \$55000
(c) \$50000 (d) \$75000
- 4. Who publishes Average Sales Price (ASP) of minerals in India?**
(a) Securities & Exchange Board of India (b) Ministry of Mines
(c) State DMGs (d) Indian Bureau of Mines
- 5. How many tonnes the CAT autonomous trucks moved until October 2022?**
(a) 1.4 billion (b) 5.0 billion
(c) 4.6 billion (d) 6.5 billion

WINNERS OF RIDDLES PUBLISHED IN THE MEJ NOVEMBER 2022 ISSUE

Congratulations to proud winners

Mr Darshan B.U

Jr. Manager- Geology & QC
E-mail: darshan@ermgroup.in

Mr Amol Dhomne

Sr Manager Mines, Satna Cement Works ,BCL.
E mail: amol.2426@gmail.com

Mr Mahendar Revori

Dy. Chief Engineer, NLC India Limited
Email: mahendar_revori@yahoo.co.in

To receive the cash prize of Rs 500, the winners may please contact the Secretary General, MEAI on email at meai1957@gmail.com or Mob. 9177045204.

CONFERENCES, SEMINARS, WORKSHOPS ETC.

INDIA

20-21 Dec 2022: MEAI- ALL INDIA GEOLOGIST'S CONFERENCE. Organised by Bellary-Hospet Chapter at Hosapete. Venue: Hotel Malligi, J.N Road, Hosapete-583201, Karnataka. For details Contact: Shri. K Madhusudhana, President, MEAI & VP-Mines & CC, M/s. MSPL Limited or Shri. K Prabhakar Reddy, CONVENER & Chairman & MEAI-BH Chapter & CEO, M/s. SUMS.

ABROAD

29 Nov - 1 Dec 2022: AusRock Conference 2022. Melbourne, Australia and Online. Contact AusIMM. T: 1800 657 985 or +61 3 9658 6100 (if overseas)

20-21 Dec 2022: International Conference on Design Methods in Underground Mining (ICDMUM 2022). Istanbul, Turkey. Website URL: <https://waset.org/design-methods-in-underground-mining-conference-in-december-2022-in-istanbul>; Contact URL: <https://waset.org>

27-28 Dec 2022: International Conference on Coal Resources and Coal Mining ICCRCM. Vienna, Austria. Website URL: <https://waset.org/coal-resources-and-coal-mining-conference-in-december-2022-in-vienna>

11-12 Jan 2023: International Conference on Land Reclamation in Mining Areas ICLRMA. Singapore. Website URL: <https://waset.org/land-reclamation-in-mining-areas-conference-in-january-2023-in-singapore>

21-22 Jan 2023: International Conference on Mineral Deposits and Mining Methods (ICDMM 2023). Amsterdam, Netherlands. Website URL: <https://waset.org/mineral-deposits-and-mining-methods-conference-in-january-2023-in-amsterdam>; Contact URL: <https://waset.org>

18-19 Feb 2023: International Conference on Bauxite Mining and Alumina Refining ICBMAR. Jeddah, Saudi Arabia. Website URL: <https://waset.org/bauxite-mining-and-alumina-refining-conference-in-february-2023-in-jeddah>

4-5 Mar 2023: International Conference on Mining and Refining of Metals ICMRM. Rome, Italy. Website URL: <https://waset.org/mining-and-refining-of-metals-conference-in-march-2023-in-rome>

4-5 Mar 2023: International Conference on Mining Intelligence (ICMI 2023). Rio de Janeiro, Brazil. Website URL: <https://waset.org/mining-intelligence-conference-in-march-2023-in-rio-de-janeiro>; Contact URL: <https://waset.org>

22-23 Apr 2023: International Conference on Recent Developments in Mining Technologies ICRDMT. London, United Kingdom. Website URL: <https://waset.org/recent-developments-in-mining-technologies-conference-in-april-2023-in-london>

22-23 Apr 2023: International Conference on Mining and Mineral Technologies (ICMMT 2023), Tokyo, Japan. Website

URL: <https://waset.org/mining-and-mineral-technologies-conference-in-april-2023-in-tokyo>; Contact URL: <https://waset.org>

3-4 May 2023: International Conference on Mining Technologies and Sustainable Systems ICMTSS. Rome, Italy. Website URL: <https://waset.org/mining-technologies-and-sustainable-systems-conference-in-may-2023-in-rome>

4-5 May 2023: 17 International Conference on Mining Technology and Exploration (ICMTE 2023). Amsterdam, Netherlands. Web: <https://waset.org/mining-technology-and-exploration-conference>

29-31 May 2023: MetPlant Conference 2023. Perth, Australia and online. Contact AusIMM. T: 1800 657 985 or +61 3 9658 6100 (if overseas)

15-16 Jun 2023: International Conference on Mining and Metallurgical Technologies (ICMMT 2023). Toronto, Canada. Website URL: <https://waset.org/mining-and-metallurgical-technologies-conference-in-june-2023-in-toronto>; Contact URL: <https://waset.org>

26-29 Jun 2023: 26th World Mining Congress. Resourcing Tomorrow-Creating Value for Society. Brisbane, Queensland, Australia. Contact: Kristina Liska, Event and Registration Coordinator at registration@wmc2023.org

16-17 Aug 2023: International Conference on Mine Mechanization and Mining Policies (ICMMMP 2023). Tokyo, Japan. Website URL: <https://waset.org/mine-mechanization-and-mining-policies-conference-in-august-2023-in-tokyo>; Contact URL: <https://waset.org>

28-29 Oct 2023: International Conference on Mining Technology and Exploration (ICMTE 2023). Paris, France. Web: <https://waset.org/mining-technology-and-exploration-conference-in-october-2023-in-paris>

31 Oct - 2 Nov 2023: International Mining and Resources Conference (IMARC). Sydney, Australia. Contact: connect@imarcglobal.com. Phone: Australia: +61 (0) 3 9008 5946

8-9 Nov 2023: International Conference on Underground Mining Methods and Technologies ICUMMT 2023. Istanbul, Turkey. Website URL: <https://waset.org/underground-mining-methods-and-technologies-conference-in-november-2023-in-istanbul>

15-16 Nov 2023: International Conference on Design Methods in Underground Mining ICDMUM 2023. Jeddah, Saudi Arabia. Website URL: <https://waset.org/design-methods-in-underground-mining-conference-in-november-2023-in-jeddah>

01-02 Dec 2023: International Conference on Design Methods in Underground Mining ICDMUM. Auckland, New Zealand. Website URL: <https://waset.org/design-methods-in-underground-mining-conference-in-december-2023-in-auckland>

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BLOOD BANK | STRENGTHENING COMMUNITIES | VILLAGE ADOPTION | WOMEN EMPOWERMENT | EDUCATION

ENVIRONMENT RENEWABLE ENERGY | FORESTATION | WATER MANAGEMENT | SOCIAL HEALTHCARE



GOVERNANCE SUSTAINABILITY REPORTING | MINING BEST PRACTICES | ADVOCACY

ESG-READY SINCE 1961

Our founder Abheraj Baldota's core operating principle was 'I am not the owner of wealth, but a privileged trustee to serve the community with it'. Thus it is no surprise that ESG practices are ingrained in our corporate ethos, business strategy and operations since our birth in 1961.

We were the first Indian unlisted company to publish a GRI compliant sustainability report way back in 2006. We are a large producer of renewable power in India. We were also the first mining company in India to get certified for OHSAS 18001:1999 and ISO 14001:2004. Across the years, we have invested more than ₹820 Crore in ESG. From building blood banks to adopting villages and combating climate change, we have been practicing ESG long before it became a buzzword.

