

116TH ANNUAL REPORT



**Report of the Council and Audited Balance Sheet
with Income & Expenditure Accounts**

2021-22



**THE MINING, GEOLOGICAL &
METALLURGICAL INSTITUTE OF INDIA**

GN-38/4, SECTOR-V, SALT LAKE,
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MGMI Council for 2021-22

President

Polavarapu Mallikharjuna Prasad, Chairman-cum-Managing Director, Central Coalfields Limited

Immediate Past Presidents

Anil Kumar Jha, Former Chairman, Coal India Limited

Dr Narendra Kumar Nanda, Former Director (Technical), NMDC

Vice-Presidents

Binay Dayal, Former Director (Technical), Coal India Limited

Prabhat Kumar Sinha, Former CMD, Northern Coalfields Limited

Bhola Singh, CMD, Northern Coalfields Limited

Jagdish Prasad Goenka, Managing Partner, Nanda Millar Company

Honorary Secretary

Ranajit Talapatra, DGM (WS), CIL

Immediate Past Secretaries

Rajiw Lochan, Former GM (CED/CBM), CMPDI

Prasanta Roy, HOD(Geology), CIL

Honorary Jt Secretary

Chandra Shekhar Singh, Chief Manager, CIL

Honorary Treasurer

Bhaskar Chakraborti, Former Dy. DG, GSI

Honorary Editor

Dr Ajay Kumar Singh, Former Scientist, CSIR-CIMFR

Members

Virendra Kumar Arora, Chief Mentor (Coal), KCT & Bros

Dr Jai Prakash Barnwal, Former Chief Scientist, RRL

Prof (Dr) Ashis Bhattacharjee, Professor, IIT, Kharagpur

Anup Biswas, Former Deputy Director Genl., Mines Safety

Lab Kumar Bose, Former Executive Director, CIL

Pravat Ranjan Mandal, Former Advisor (Projects), Ministry of Coal

Smarajit Chakraborti, Former CMD, ECL

Nityanand Gautam, Former Advisor, UNDP

Dr Netai Chandra Dey, Professor, IEST, Shibpur

Prof (Dr) Ganga Prasad Karmakar, Former Prof. IIT, Kharagpur

Tapas Kumar Nag, Former CMD, NCL

Dr Abani Kanta Samantaray, General Manager (CV), CIL

Prof (Dr) Bhabesh Chandra Sarkar, Professor, IIT-ISM, Dhanbad

Dr Kalyan Sen, Former Director, CIMFR

Anil Kumar Singh, Area General Manager (Lakhanpur), MCL

Dr Amalendu Sinha, Former Director, CSIR-CIMFR

THE MINING, GEOLOGICAL & METALLURGICAL INSTITUTE OF INDIA

REPORT OF THE COUNCIL

The Council has the honour to present 116th Annual Report on the activities of the Institute for the year 2021-22 (April 2021 to March 2022).

PROCEEDINGS OF THE 115TH ANNUAL GENERAL MEETING FOR THE YEAR 2020-21

The 115th Annual General Meeting of MGMI was held on 25th September 2021 at 10.30 hrs at MGMI Office, Salt Lake, Sector-V, Kolkata through video conferencing with host site being MGMI Office at Kolkata, and the logistics managed by CDSL.

The meeting was chaired by Shri PM Prasad, President, MGMI. The office bearers and members, who joined the meeting on-line are S/Shri PM Prasad, Anil Kr Jha, Dr NK Nanda, Nirmal Ch. Jha, Prof. S.P. Banerjee, Prof B.B. Dhar, R.P. Ritolia, R.K. Saha, Rajiw Lochan, Prasanta Roy, P S Mishra, Dr. Amalendu Sinha, Dr. P.K. Singh, T.K. Nag, J.P. Goenka, V.K. Arora, P.R. Mondal. N.N. Gautam, B.R. Reddy, Ashis Bhattacharya, Dr. Khanindra Pathak, Dr. Ajay Kumar Singh, Anil Kumar Karmakar, Ranjit Datta, Smarajit Chakraborty, Prof. Netai Ch. Dey, Anup Biswas, Anil Singh, Prof. G.P. Karmakar, K. Ramakrishna, C.S. Singh, Dr. Bhabesh Ch. Sarkar, Alok Kumar Singh, Dr. J.P. Barnwal, Sayan Ghosh, K.K. Mishra, Dr Anal Sinha and Shri G.S. Khuntia.

Honorary Jt Secretary, Shri Ranajit Talapatra, joined the meeting online, from MGMI Hq Council Room.

At the onset, a minute's silence was observed in memory of the members who left us for their heavenly journey during the last one year, after their names were read out by the Secretary.

Sri P M Prasad, President, MGMI called the meeting to Order on confirmation of establishment of quorum at 10.40Hrs. The President welcomed all members present by thanking the Past Presidents, Office Bearers, Council Members and Members attending the meeting on virtual platform through video conferencing.

Honorary Secretary, MGMI, Shri Rajiw Lochan initiated the meeting proceedings. The notice convening the 115th Annual General Meeting containing the agenda and the 115th Annual Report of MGMI, which was sent to all members through e-mail in advance was readout by Shri Lochan, for convenience of members attending the meeting. The minutes of the 114th Annual General Meeting was also circulated to the members through e-mail by MGMI office. In addition, CDSL also sent the (i) 115th AGM Notice and (ii) Annual Report 2020-21 to members through email for compliance. It was also placed on MGMI Official website <https://www.mgmiindia.in/>.

The Actions Taken report on the minutes were presented by the Honorary Secretary. The minutes were confirmed by the house which was proposed by Prof B B Dhar and seconded by Shri N N Gautam.

The members were requested vide e-mail with details of link and process to e-vote for accepting or rejecting the audited balance sheet (up to March 2021) and the proposal of appointing the auditor. The e-voting was open from 22nd September and quite a few members (53) availed the facility. Report on the last audited balance sheet was also sent through e-mail, hard copy was posted and put up in the website. For convenience of attending members, the salient points of the audit report were read out. The audited report was confirmed and accepted by the house which was proposed by Shri P R Mondal and seconded by Dr Amalendu Sinha. The House unanimously adopted that M/s Jha & Jha Co will be the Auditors for the financial year 2021-22 with the remuneration of Rs. 12,000/- for all the necessary services as approved in the 889th Council Meeting.

Then Shri PM Prasad, President, MGMI was invited to deliver the Presidential address. The written address had been posted in MGMI website and also sent to members through WhatsApp.

Welcoming the participants, Shri Prasad discussed the challenges mining and related industry are facing along with the solutions that could be developed using the experience and knowledge of the members of this century-old Institute. He briefly spoke of India's economic progress since independence, mentioning that there has been a 10-fold increase in the GDP (at constant prices) since the reform process began in 1991 and expressing hope that the economy will be recovering fast after the second Covid-19 wave.

In the development model of India, natural resources have played a crucial role in promotion of the Make in India initiative. According to him, for "Make in India" to succeed, we must "Mine in India" first. Development of the mining sector will be important if India has to achieve 7%-plus GDP growth. Mineral production needs to keep pace with the growing demand of infrastructure development to minimize the import bill of minerals. President discussed the energy consumption of India, vis-à-vis other developed countries as well as the energy options of our country. Our dependence on oil imports is over 85 percent and our oil production has been declining at a CAGR of 0.5 % in the last 10 years. The trend is similar for natural gas production which has declined at a CAGR of 0.4% in the last ten years. The import dependence for natural gas is about 45 percent. In this bleak fossil fuel production scenario, coal production has been an exception. In FY21, the country produced 716 MT of coal. The CAGR of coal production in the last 10 years is about 3%. According to him, Coal will continue to be the backbone of India's energy sector for the next two decades.

Coal India Limited is the largest coal producing company in the world. It also operates the largest number of coal mines in the world. He further discussed some of the steps taken for sustainability in Coal India which are - 1) First Mine Connectivity Projects, 2)

Planning of large capacity mines, 3) Increased deployment of Surface Miners and continuous miners, 4) Tree plantation, 5) Rehabilitation of Jharia fire sites, 6) Diversification – a) Coal to Chemicals Plants, b) CBM, CMM, Coal Gasification (Surface & Underground), c) Pit Head Power Plants, d) Solar Power Plants, e) Solar manufacturing, f) Monetization of waste – Reuse of Reclaimed Land, Overburden Waste Processing Plants, Mine water utilization. He also mentioned the move towards sustainability seen in the private sector.

Shri Prasad spoke about Net zero emission, Hydrogen as an important source of energy, sustainability of metalliferous mining and future of production of minor minerals like graphite, lithium and cobalt. India has not been able to utilize its rich natural resource endowment (of iron, coal, mineral oil, manganese, bauxite, chromite, copper, tungsten, gypsum, limestone, and mica) to full potential to maximize growth and strengthen the economy.

In conclusion, he hailed MGMI's activities, especially during the pandemic period, like regularly organizing knowledge sharing events, improving quality of MGMI News Journal, etc.

He shared that the 9th Asian Mining Congress is scheduled to be held early next year and shown his confidence that the congress and the associated mining equipment exhibition will be a great success. He thanked Shri Rajiw Lochan, Honorary Secretary, Shri Ranajit Talapatra, Honorary Joint Secretary & Shri Anil Karmakar, Honorary Treasurer, for smooth functioning of MGMI office even during pandemic and keeping all routine activities in motion.

He also announced the names of important office-bearers of the 9th AMC i.e; Shri P S Mishra as Chairman and self as Convenor. In this context, Prof B B Dhar suggested that younger members should be included in the AMC committees. Similarly, for the 9th IME, Shri Bhola Singh was announced as Chairman and Shri Prasanta Roy as Convenor. It was assured that more Committee members will be co-opted for successful organisation.

The report of the Board of Scrutineers for Election of the Council Members for the years 2021-24 was presented. The essence of the report is -- Total Ballot papers dispatched – 1881; Ballots received 430; No response of voters – 1202; Council members elected -9; candidate contested – 12. The newly elected council members are:

1. Dr. Ajay Kr Singh, 2. Sri Chandra Sekhar Singh, 3. Sri Anup Biswas, 4. Sri Pravat Ranjan Mandal, 5. Dr Bhabesh Chandra Sarkar, 6. Dr Netai Chandra Dey, 7. Sri Nitya Nand Gautam, 8. Dr Kalyan Sen & 9. Sri Bhaskar Chakraborti.

The President, Secretary, Joint Secretary, Council Members and members present congratulated and welcomed the new council members.

In response to the suggestion of Shri J P Goenka of electronic voting in future, Shri Rajiw Lochan, Honorary Secretary informed that as per MGMI constitution, 60 days' notice is to be given for voting and window for voting is too large. Agency conducting e-voting have not developed such long period of voting. Dr Ashis Bhattacharya, Dr Khanindra Pathak, Prof B B Dhar interacted to advise that MGMI constitution may please be considered to be modified suitably to meet the need of the time and adopt advancement. It was agreed that the matter will be further deliberated in Council Meeting of MGMI to draw way forward so that next year onwards, efforts for e-voting is taken up in right earnest. The AGM gave the sanction to the Council to implement such a decision.

Honorary Secretary informed the house that in the 889th Council Meeting it was unanimously decided that Shri P M Prasad will continue as the President of the MGMI for another tenure i.e; 2021-22. Further, In the same Meeting, the Honorary Joint Secretary Shri Ranajit Talapatra was elected as Secretary for the period 2021-23 as current incumbent Sri Lochanis completing his tenure as per provision of MGMI constitution.

In the open session, Shri J.P. Goenka wished that more sincere efforts are made towards inducting more members, especially young members. He pointed out that number of MGMI members are decreasing. Shri R P Ritolia suggested there should be young council members and reservation for this may be considered. Shri V K Arora spoke for reservation for ladies. Dr. Khanindra Pathak suggested that important persons from other organizations may be co-opted as ex-officio council members. Past President Shri N C Jha said that he is not in favour of any reservation. Shri N N Gautam supported Shri Jha, pointing out that there is no bar for young people to apply for election. They need to be made interested in MGMI activities.

Shri J P Goenka raised the point of returning award money to Mrs. Bhatnagar, as the awards are not being given out. In this connection, Secretary informed that a new proposal was sent to Mrs. Bhatnagar, but so far no response has been received. However, it was decided that these issues will be discussed in the next Council meeting.

Prof S P Banerjee desired MGMI to make an updated directory. Honorary Secretary informed the house that latest directory, updated as on 31 August 2021 has been prepared by Shri Ranjit Datta, a senior member of MGMI and it has been posted in MGMI website. However it may need further refinement. It was informed that further discussions on this could take place in Council Meeting.

House put on record the word of appreciation for the Outgoing Honorary Secretary Shri Rajiw Lochan for his services to make MGMI more visible and maintained all rich tradition of this organization through his efforts.

The meeting concluded at 11:45Hrs with Vote of Thanks by the Honorary Secretary (elect) Shri Ranajit Talapatra, who will be the new Honorary Secretary of MGMI for the tenure 2021-23.

HEADQUARTERS ACTIVITIES

There were five Council Meetings held during the Sessions 115th and 116th. The CM 888th on 4th June 2021, CM 889th on 7th August 2021, 890th on 7th October 2021, 891st on 11th December and 892nd on 27th February 2022.

COUNCIL MEETING OF 115TH AND 116TH SESSIONS

HIGHLIGHTS OF 888th COUNCIL MEETING

The 888th Council Meeting of MGMI held through Zoom Virtual Platform on 4th June, 2021 at 06.00 pm. at MGMI Bldg., GN-38/4, Sector – V, Salt Lake, Kolkata – 700091. (Duly approved in the 889th Council Meeting held on 7th August 2021).

- Shri PM Prasad, President in the Chair. The meeting was attended by Prof Sakti Pada Banerjee, Prof. B B Dhar, Dr N K Nanda, S/Shri Anil Kr Jha, N C Jha, R P Ritolia, R K Saha, J P Goenka, P R Mandal, Prasanta Roy, Ranajit Talapatra, Anil Kumar Karmakar, Prof Khanindra Pathak, Dr. Ajoy Kumar Singh, V K Arora, J P Barnwal, Prof Ashish Bhattacharya, Anup Biswas, L K Bose, Smarajit Chakrabarti, Prof Sajal Dasgupta, Prof N C Dey, Prof G P Karmakar, T K Nag, Prof Bhabesh Chandra Sarkar, Dr Kalyan Sen, Anil Kr Singh, Dr Amalendu Sinha, Dr Ajoy Kumar Moitra, G S Bhati, Rajiw Lochan and I P Wadhwa.
- The Minutes of the 887th (3rd meeting of the 114th Session) Meeting of the Council held on 16th December, 2020 at 12.00 Noon on Hybrid Mode (Physical & Virtual Platform) was confirmed.
- The Council considered the Action Taken Report in respect of the Minutes of 887th Council Meeting held on 16th December 2020 (on hybrid mode).
- The Council approved the appointment of M/s. Jha & Jha Chartered Accountants Company as Auditors of MGMI for the FY 2020-21 at a remuneration of Rs.12,000/- (excluding applicable taxes) for execution of all assignments of Audit, ROC, Annual Filling, IT Returns etc. An appointment letter has been issued for the same as confirmed in the AGM also.
- Council elected the following Office bearers unanimously for the new terms 2020-2021, after discussion and clarification, elected the officer bearers as under:
- Vice Presidents: (1) Shri Binay Dayal, (2) Shri P K Sinha, (3) Shri P R Mandal and (4) Shri J P Goenka as proposed by Dr Amalendu Sinha and seconded by Shri Anil Kr Karmakar, Treasurer: Shri Anil Kr Karmakar, proposed by Shri Ranajit Talapatra and seconded by Shri V K Arora, Joint Secretary: Shri Ranajit Talapatra, proposed by Shri Prasanta Roy and seconded by Shri Anil Kr Singh, and Honorary Editor: Prof (Dr) Khanindra Pathak, proposed by Shri Rajiw Lochan and Seconded by Dr J P Barnwal.

- The Council after detailed discussion & considering AGM approval constituted the "Board of Scrutineers" and approved to conduct election for the Council Members of MGMI for the Years 2021-2024 and advised the Committee to place the report in the 115th AGM of MGMI. The constituted Committee Members were as hereunder and unanimously approved by the Council.
 1. Shri Ranjan Kr Saha - Chairman
 2. Shri Samarajit Chakrabarti,
 3. Shri Prasanta Roy,
 4. Shri Ranajit Talapatra,
 5. Shri Rajiw Lochan, Honorary Secretary - Ex -Officio

The Council discussed the continuing pandemic condition which led to extra ordinary situation and uncertainty. It was opined that we should think of organising Conferences only when situation improves and it is safe to organize physical events, after obtaining permissions from the Government and it will not be possible to organize the 9th AMC & IME, the Biennial event of MGMI in October, 2021, as per original schedule.

Shri I. P. Wadhwa of M/s Tafcon representatives briefed the council about future events by other organizations, and also suggested that initially we may think to organize the 9th IME & AMC during 17th – 20th January' 2022.

The Council was in opinion that it is too early to consider it, as Government is making all emergency arrangement for third wave and we should not consider anything at the cost of life and safety.

- Prof (Dr) Khanindra Pathak and Dr Ajay Kr Singh appraised the Council that Virtual Paper Meet was organized by MGMI on 8th May 2021, wherein the following papers were presented:
 - i. Application of data analytics for performance analysis of dump trucks by Pragjyoti Das, IIT Kharagpur, Chandan Gautam, SECL and Khanindra Pathak, IIT Kharagpur.
 - ii. Variation in Rake Loading of Coal and its Consequence by S.K. Sadangi, CVO, CIL.
 - iii. Experiment and Demonstration of Rapid Forest Regeneration over Steel Slag, authored by Anjani Kumar, S V Brahmandam, Khanindra Pathak, IIT Kharagpur, Saroj Kumar Banerjee, TSBSL and Padmanav Mahakud, TSBSL.
 - iv. Flammable and Toxic Gases in Opencast Coal Mines by Munir Ahmed, MCL.

It was decided that the Modified/Edited technical papers will be published in MGMI Transactions, Vol. 117, April 2020 - March 2021.

- The Council appreciated the efforts of the Editorial Board and publication of MGMI's News Journals and Transactions even during current pandemic amidst restrictions imposed. It was informed that MGMI's News Journals and Transactions were published and uploaded in the MGMI website.
- The Council approved 5 Life membership applications. All of them have been intimated their membership number by individual letters.

Honorary Secretary informed the council that to keep members' database updated, an effort has also been made by providing online updating tab facility at MGMI Website where members can update their contact details very easily online in the site itself. Members were requested to promote this facility so that MGMI can maintain recent updates on members to keep more frequent communication and response.

- Chief Consular Officer, Honorary Consulate of the Republic of Poland in Kolkata has approached MGMI to organise an Online Webinar on Coal Mining. The Council agreed to organize it on mutual agreed date and time.
- Honorary Secretary apprised the Council that MGMI is one of the Members under "Representative of Professional Body" of INC/World Mining Congress and that, MGMI was represented by Honorary Secretary, Shri Rajiw Lochan in the AGM of this apex body was convened through VC on 4th March, 2021. He mentioned that WMC appreciated the role of MGMI and requested to actively participate as and when requested, in their activities also which was agreed by MGMI representative.
- The matter regarding statutory expenses incurred after AGM till further formation of the new Executive Committee and intimation to the Banks, regarding change of Signatory, if needed was deliberated. It was requested to the Council to authorize outgoing Executive Committee till election of New Executive Committee to operate the Bank accounts for statutory expenses and payments for the smooth functioning of MGMI administrative activities. The Council authorised outgoing office bearers to operate Bank accounts till formation of the new Executive Committee.

HIGHLIGHTS OF 889th COUNCIL MEETING

The 889th Council Meeting of MGMI was held through Zoom Virtual Platform on 7th August, 2021 at 05.30 pm. at MGMI Bldg., GN-38/4, Sector – V, Salt Lake, Kolkata – 700091 (Duly approved in the 890th Council Meeting held on 17th October 2021).

Shri P M Prasad, President in the Chair. The meeting was attended by Prof Sakti Pada Banerjee, Prof. B B Dhar, S/Shri N C Jha, R P Ritolia, R K Saha, J P Goenka, Rajiw Lochan, Prasanta Roy, Anil Kumar Karmakar, Dr. Ajay Kumar Singh, V K Arora, J P Barnwal, Anup Biswas, L K Bose, Smarajit Chakrabarti, Prof N C Dey, Prof G P Karmakar, T K Nag, Prof Bhabesh Chandra Sarkar, Dr Kalyan Sen, Anil Kr Singh, Dr Amalendu Sinha, G S Khuntia, N N Gautam, Ranajit Talapatra and I P Wadhwa.

Council resolved that: The Minutes of the 888th (1st meeting of the 115th Session) Meeting of the Council held on 04th June, 2020 at 6.00 PM on Virtual Platform, was confirmed.

- The Council considered the Action Taken Report in respect of the Minutes of 888th Council Meeting held on 4th June 2021 on virtual platform and further discussions were taken up.
- The respective coordinators of the Short Term Courses have been intimated and requested to finalize the brochure so that MGMI can approach respective organisation to sponsor and nominate participants. As per Council approval, CIMFR has been approached for further extension of 2 years and they have renewed the terms of the Memorandum of agreement till December 2021 with the same terms and conditions as agreed in the earlier agreement, vide their letter dated 6th August 2021.
- A virtual technical presentation was made by CUSMAT Technologies, Hyderabad on 1st August, 2021 at 5.00 PM on “UG Mine Hoists for Drum & Friction Winders based on Simulator (Virtual Reality)”. A proposal on joint training programme for haulage Operators has been agreed and placed for Council approval where MGMI will be the lead manager.
- Mr I P Wadhwa, Managing Partner M/s TAFCON updated the council that the situation is improving and as proposed in the last council meeting, we should consider organizing next edition of IME concurrent with AMC during January 17 (Mon) – 20 (Thu), 2022 as venue is available and he is positive for good participations from abroad or their representatives stationed in India.

He further supplemented that December 2021, is not desirable due to EXCON (which has an overlapping profile) during December 7-11, 2021 at Bangalore and IMME, Kolkata is expected in October 2022. Therefore, MGMI should consider to organize the Biennial event as per practice. He further supplemented that Exhibitors need exhibition venue for a long period of about 21 days (including mounting & dismantling), with lots of efforts. Eco Park authorities have agreed to provide the venue for IME on proposed dates with required days for mounting & dismantling period.

The Council discussed in detail on continuing pandemic condition and it was decided to go ahead with proposed dates for preliminary communication of physical holding of 9th AMC & IME, with the rider that if the restrictions existing at that time do not permit organisation of the event physically, there will not be any financial liability of MGMI to Tafcon.

President agreed to the views of Council members and assured that decision will be taken considering Covid protocol, safety and expected foreign participation for 9th Edition of the event.

Council was apprised that the Government of India has shown an important thrust on reducing CO₂ and other greenhouse gas emissions as part of the Paris Agreement commitments. Key experts have also been considering if these could be supplemented by a net-zero emissions target by a particular year. Currently, coal utilization and production contribute significantly to greenhouse gas emissions and as such, technological and policy solutions would be needed to reduce emissions in this sector. Accordingly, it was proposed to organize a Webinar on “Reducing CO₂ emissions from the Indian coal sector and transitioning to a net-zero context”. International Speaker (1) Mr Toby Lockwood, Senior Analyst, International Centre for Sustainable Carbon, London (UK), (2) Prof Vikram Vishal, Associate Professor, Indian Institute of Technology Bombay, Mumbai (India) and (3) Dr Udayan Singh, Post-doctoral Fellow, North Western University, Evanston, Illinois, USA were available to present their views in the interest of India.

It was agreed that MGMI should organize Webinar on the subject on 17th August 2021 on Virtual Platform. Past President, Prof S P Banerjee, Former Director-in-charge, IIT (ISM) Dhanbad was requested by the Council to be the Moderator of the session which he accepted.

- It was apprised to the Council that MGMI was in receipt of a proposal for organising training programmes jointly with CUSMAT Technologies on winder simulator products of CUSMAT Technologies (Hyderabad) for Underground Mine Hoists for Drum and Friction Winders based on Simulator (Virtual Reality).

To evaluate the proposal, a virtual presentation by CUSMAT Technologies was arranged on Sunday the 1st August, 2021 where detailed technical presentation was done by CUSMAT Technologies (Hyderabad) Team on Simulator product viz. “Underground Mine Hoists for Drum and Friction Winders based on Simulator (Virtual Reality)”.

Council agreed that a suitable training programme for haulage operators is very important for safety and productivity of any underground mine. The training module developed by CUSMAT Technologies on Virtual Reality (VR) based training systems to train winder operators in underground mines will be beneficial to mining industry.

Council further agreed that such training should be conducted under the banner of MGMI and any Company approaching CUSMAT Technologies for such training would be directed by them to contact MGMI. Accordingly joint training proposal with MGMI as the lead manager was approved by the council.

To proceed further, a committee of following members was constituted to work out on details of the training programme in consultation with CUSMAT Technologies:

1. Sri N C Jha – Chairman
2. Sri R P Ritolia

3. Dr Amalendu Sinha
 4. Sri Rajiw Lochan
 5. Prof Bhabesh Kumar Sarkar
- It was further advised that other three Training courses which was approved by MGMI Council, should also be pursued by the respective committee.

It was apprised to the Council that to comply with statutory requirements, MGMI needs to organise the 115th AGM by September 2021, as now Government has also allowed organization of AGMs on virtual mode. Honorary Secretary updated the Council that last year it was organized in hybrid mode in association with Central Depository Services (India) Limited, (CDSL) and Company Secretary Mr Mohamammad Menazuddin was our Scrutineer for the purpose in line of ROC guidelines. He further proposed that CS Mohamammad Menazuddin may be appointed as Scrutineer on similar terms and conditions.
 - It was agreed that AGM will be held on Saturday the 25th September, 2021 from 10.30AM in virtual mode which was approved by the Council. However, it was requested that possibility of hybrid mode should also be explored.
 - The Auditor's Report and Audited Accounts for the financial year ending on 31st March 2021, were placed before the Council for consideration. The Council has gone through the Auditor's report, Balance Sheet for 2020-21 and Income & Expenditure Accounts 2020-21 and approved after clarifications and adopted it for further needful.
 - The Council considered the proposal of M/s. Jha & Jha Chartered Accountants Company vide letter dated 6th August 2021 to accept appointment as the Auditors of MGMI for the year 2021-22. The Council approved the appointment of M/s. Jha & Jha Chartered Accountants Company as Auditors of MGMI for the FY 2021-22 at a remuneration of Rs. 12,000/- (excluding applicable taxes) for execution of all assignments of Audit, ROC, Annual Filling, IT Returns etc.
 - It was unanimously proposed by the Council that the present President, Sri P M Prasad should continue as the President of the institute for the year 2021-22. Thereafter, his name was proposed by Dr Amalendu Sinha and seconded by Sri T K Nag. Council unanimously elected Sri P M Prasad as the President of MGMI for the year 2021-22.
 - It was proposed by Shri J P Goenka that the present Joint Secretary, Shri Ranajit Talapatra should be elected as the Honorary Secretary of MGMI for the term 2021-23 which was seconded by Sri Anil Kr Singh. Council unanimously elected Shri Ranajit Talapatra as the Honorary Secretary of MGMI for the Year 2021-23.

The Council appreciated the efforts of the Editorial Board and publication of MGMI's News Journals and Transactions even in current pandemic and restrictions imposed to prevent corona virus. It was informed that the following MGMI's News Journals, Transactions were published and uploaded at MGMI website:

- MGMI News Journal Vol 46 No 4, Jan - March 2021, Vol 47 No 1 April – June 2021;
- Transaction Vol 116, April 2019- March 2020;
- 114th Annual Report 2019-20;

The Honorary Secretary once again requested Council Members to motivate members in their contact to update their recent communication details through online updation tab facility at MGMI Website <https://www.mgmiindia.in/>. It is very easy to update on-line at the site itself.

- Sri J P Goenka expressed that the net expenditure towards MGMI Transit House for the year 2020-21 was high as booking was negligible due to Covid and resulted in loss to MGMI. In this connection, Past President, Sri R P Ritolia said, due to Covid, many of the Hotels and Guest Houses of West Bengal are not offering accommodation facility to the boarders for the time being due to the Pandemic situation – Covid 19. So, he proposed that MGMI Guest House should be suspended till the situation improved and can start once normalcy restored. After deliberation it was agreed that MGMI Guest House facility will be suspended till normalcy.

HIGHLIGHTS OF 890th COUNCIL MEETING

The 890th Council Meeting of MGMI held through Zoom Virtual Platform on 17th October, 2021 at 11 am at MGMI Bldg., GN-38/4, Sector – V, Salt Lake, Kolkata – 700091 (Duly approved in the 891st Council Meeting held on 11th December, 2021).

- Shri P M Prasad, President in the Chair. The meeting was attended by Prof Sakti Pada Banerjee, Prof. B B Dhar, Dr N K Nanda S/Shri N C Jha, R P Ritolia, R K Saha, Anil Kumar Jha, J P Goenka, Rajiw Lochan, Prasanta Roy, Anil Kumar Karmakar, Dr. Ajay Kumar Singh, Chandra Shekhar Singh, Bhaskar Chakraborti, Dr. J P Barnwal, Anup Biswas, L K Bose, Smarajit Chakrabarti, Prof N C Dey, Prof G P Karmakar, T K Nag, Prof Bhabesh Chandra Sarkar, Dr Kalyan Sen, Dr Amalendu Sinha, G S Khuntia, N N Gautam and Shri R Talapatra, the new Honorary Secretary.

Shri I P Wadhwa, Managing Partner, Tafcon was an invitee.

- It was proposed that Shri V. K. Arora and Shri Bhola Singh, Director (Tech), CCL, may formally be co-opted as Nominee Council Members for one year against the 2 possible nominations by President allowed in the MoA. The proposal was agreed and approved by the Council with consent of both nominees.

Newly elected Council members of MGMI is as follows:

S/Shri Pravat Ranjan Mandal, Chandra Shekhar Singh, Dr Kalyan Sen, Anup Biswas, Dr. Ajay Kumar Singh, Bhaskar Chakraborti, Nitya Nand Gautam, Prof Bhabesh Chandra Sarkar and Prof Netai Chandra Dey.

- Highlights of the Minutes of the 889th (2nd meeting of the 115th Session) Meeting of the Council held on 07th August, 2021 at 5.30 PM on Virtual Platform, was confirmed.
- The Council considered the Action Taken Report in respect of the Minutes of 889th Council Meeting held on 7th August 2021 on virtual platform and concurred.
- The Honorary Secretary requested Shri I P Wadhwa, Managing Partner, M/s TAFCON to apprise the Council about the progress made so far for organizing 9th IME. Shri Wadhwa informed the Council that in view of the short time, preparations are being made very fast. Information has been placed on the web site which is fully operational. The same has been circulated through the social media as well. Data base for more than 10,000 companies are ready. Awareness has been created worldwide. Honorary Secretary has been requested to draft the initial letter to formally approach the companies. Current progress will be placed before the Exhibition Committee for their guidance. A time line should be framed to complete certain things before Diwali and something before the New Year. It was informed that a newsletter will be ready for circulation within a week or so with agenda for every month. He requested to convene Organising Committee meetings once in a month or 5-6 weeks to take the stock of meaningful progress. He informed the Council that the details of the next MoU have been discussed in the Exhibition Committee.

Prof. S. P. Banerjee said that Japan, Russia, Iran, Kazakhstan and Indonesia, are the main Asian countries making lots of investments in Mining and that they are interested and have participated in the past. These countries should have some stalls in the exhibition.

- Shri I P Wadhwa mentioned that the Minister of Iran was contacted and Indonesia and Kazakhstan have been covered.
- The Council was requested by Shri Bhola Singh, Chairman, Exhibition Committee, to decide and finalize the financial part of the next MoU. It was intimated that while the last time during 8th IME, the minimum guaranteed amount was Rs. 45 lakh, this time for 9th IME, M/s TAFCON proposed the minimum guaranteed amount would be Rs. 30 lakh in view of the prevailing pandemic affected economic situation. The Exhibition Committee has negotiated the amount and Shri Wadhwaas principally agreed to the minimum guaranteed amount of Rs. 40 lakh in place of Rs. 45 lakh subject to review. Other terms and conditions remain the same as that of 8th IME. The Council after discussion agreed and approved minimum guaranteed amount

of Rs. 40 lakh for the 9th IME, with the rider that the MOU should have it incorporated that this is a one time waiver of escalation and the escalation of 10% will remain in place for next event with Rs 45 Lakhs as the base level.

- It was decided that considering the Pandemic situation, the Congress will be organized for two days instead of three days. To promote better participation of foreign delegates, they will be given the option to join online through a virtual platform while Indian delegates has to be present physically at the Biswa Bangla Convention Centre, the venue chosen. The Committee has approached several countries for participation in the Congress. Regarding the Registration fee the Council was informed that it will be the same for Indian delegates, while the same has been reduced significantly for overseas delegates for better participation. Special consideration has been given to Indian students.
- It was decided that there will be no publication of hard copy of the proceedings at the time of organizing the Congress. A reputed publishing house will be engaged for publication of the proceedings subsequent to the Congress. The Council was apprised that the Brochure was ready for printing and the 1st call will be uploaded on the MGMI website soon in the coming week and circulated subsequently.
- Dr. Amalendu Sinha, Chairman, Technical Committee said that it will be a challenging task to conduct the technical sessions in one and half days. He requested Senior Council Members to suggest names of experts for good and meaningful presentation from different sectors. He requested Council Members to feel free to write directly to people they knew could present international class papers.
- Council member, Prof Netai Chandra Dey wanted a reduction in Registration fee for the students and proposed that the Conference Proceeding publication should be linked to a reputed publisher like Springer as writing papers nowadays is focused on Scopus and SCI Journals. After detailed deliberations, it was decided that the technical committee may take a call on case-to-case basis as requested for Student delegates, like previous years. Regarding the publication, it was summarised that the publication in Scopus and SCI Journals may be discussed in a technical committee meeting first and then put up to the Council.
- The following names were proposed for the posts of office bearers and approved by the Council.

Vice Presidents

1. Shri Binay Dayal, Director (Technical), CIL
2. Shri J. P. Goenka, Managing Partner,
Nanda Miller Co.
3. Shri P. K. Sinha, CMD, NCL
4. Shri Bhola Singh, Director (Technical), P&P, CCL

Honorary Joint Secretary	Shri Chandra Shekhar Singh, Chief Manager, CIL
Honorary Treasurer	Shri Bhaskar Chakraborti, Former DDG, GSI
Honorary Editor	Dr. Ajay Kumar Singh, Former Scientist & Head, Methane Emission & Degasification, CIMFR

- Shri Prasanta Roy suggested that the Transit House on the top floor of MGMI Building has been discontinued and the possibility of renting it out may be explored in order to have some income for MGMI. Many Council Members expressed their opinion that it should be reopened in near future. It should not be rented and MGMI should do some expenditure. Privacy in the building may also be lost if the top floor is rented out to some outsider. The Transit House is very good and purposeful facility for the retired persons as it is safe and homely and therefore, it should be continued. Shri N. C. Jha, one of the Past Presidents wanted to know if any separate accounting has been done for it in the past or any cost benefit analysis has been done. He also sought clarifications regarding percentage of occupancy. Shri Rajiw Lochan, Immediate Past Secretary shared his experience by saying that overhead expenses were very high (almost double) when the services were outsourced as compared to the case when it was run by the contractual staff of MGMI. Few years back, occupancy percentage was very high when there was an arrangement with NEC and others. The same arrangement may be revived in future as well. Shri N. C. Jha expressed that the facility should be self-sufficient. He suggested to form a separate committee to review and take stock of the Transit Accommodation and till then it should continue. Past President, Prof. B. B. Dhar, agreed to the proposal and the President accepted the proposal of Shri Jha and it was decided that to constitute a small committee to review the expenses of the Transit House, followed by purposeful discussion on its recommendation in a Council Meeting. It was proposed that till then it should continue with skeletal services by MGMI staff for outstation Council members who wanted to stay during events of MGMI in Kolkata.
- The Honorary. Secretary informed that MGMI obtained a tenant (M/s. RAC IT Solutions Pvt. Ltd) at a monthly rent of Rs 1,30,000 only w.e.f. 15th October, 2021 for the space in the basement which had to be taken over from the earlier tenant who had kept 23 months' rent pending even after several verbal and written reminders. The new tenant (M/s. RAC IT Solutions Pvt. Ltd) has deposited four months' rent in advance, which has been kept in a fixed deposit.
- The Council considered the facts and figures and approved the budget for the year 2021-2022.
- Honorary Secretary informed that five Life Membership Applications have been received and the Council agreed for membership of MGMI in respect of the above officials and accepted the proposal to allot the membership to the above-named persons.

- Prof S. P. Banerjee wanted to know the progress made so far to revise the list of membership. Earlier the Directory was having 2937 membership, which was reduced to about 2000 after scrutiny by the MGMI Office and Mr Ranjit Dutta which he appreciated as a commendable job. He reminded the council about a letter he wrote a month back where he mentioned a list of 50 members who have expired. MGMI should take up the matter and revise the Directory after verification, if required. He requested other members also to do a similar exercise for a more accurate directory.
- Prof. S. P. Banerjee also drew attention of the Council towards the suggestion made by Shri Smarajit Chakrabarti regarding posting of the Directory having details of the members on the MGMI website which is open to all. The details can be accessed by anyone and therefore it is not safe. The access should be allowed to persons who can login and then access can be made. The Honorary. Secretary made an assurance to look into the matter, temporarily remove open access and explore the possibility of formulating restricted access after completion of 9th AMC and IME.
- Due to exigencies of work, Mrs. Tanusri Dutta, Ex-employee of MGMI, who had retired earlier this year, has been re-appointed at a consolidated salary of Rs. 18,000/- per month w.e.f. 7th October, 2021. The Council ratified the appointment.
- **MGMI Chapter Activities**

Dr. Nanda, Past President mentioned that most of the chapters of MGMI are inactive. The chapters should be activated and election of the Executive Committee should be conducted as per the constitution, as it is seen that in most of the chapters there is no Executive Committee, Chairman and Honorary. Secretary. The Chapters should be re-activated.

HIGHLIGHTS OF 891st COUNCIL MEETING

The 891st Council Meeting of MGMI held through Hybrid Meeting Physical and Virtual Platform through Zoom on **Saturday, 11th December 2021 at 3:30 P.M.** at MGMI Bldg., GN-38/4, Sector-V, Salt Lake, Kolkata – 700091 (Duly approved in the 892nd Council Meeting held on 27th February 2022).

Shri P M Prasad, President in the Chair. The meeting was attended by Prof Sakti Pada Banerjee, Prof. B B Dhar, Dr. N K Nanda , S/Shri N C Jha , R P Ritolia, R K Saha, Anil Kumar Jha, J P Goenka, Rajiw Lochan, Chandra Shekhar Singh, Bhaskar Chakraborti, Dr. Ajay Kumar Singh, Prasanta Roy, Bholu Singh, L K Bose, N N Gautam, J P Barnwal, Anup Biswas, Smarajit Chakrabarti, Prof N C Dey, Prof G P Karmakar, Prof Bhabesh Chandra Sarkar, Dr AK Samantaray, Dr Kalyan Sen, Dr Amalendu Sinha, G S Khuntia, P.S Mishra, Ranajit Talapatra and I P Wadhwa, Tafcon.

- The meeting was held in a hybrid mode due to the still existent virus scare and called to order by the President. The President welcomed the Past Presidents, Past Secretaries, Present Secretary, Chapter Chairpersons and existing Council Members, along with invitees who were present physically as well as virtually in the meeting.

The Minutes of the 890th (1st meeting of 116th session) meeting of the Council held on Saturday, the 17th October, 2021 at 11:00 A.M. was confirmed.

- The Council considered the Action Taken Report in respect of the Minutes of 890th Council Meeting held on Saturday, the 17th October, 2021 at 11:00 A.M. (on hybrid mode).
- Shril. P. Wadhwa informed the Council that preparations are being made very fast and that information has been shared through Social Media as well. The members discussed about the ongoing buzz about the increasing Omicron infections and extension of the Govt. bar on opening all international flights. It was unanimous that the next 2-3 weeks would be critical in seeing how things pan out.

Shri Wadhwa placed the draft copy of MOU for discussion and approval of the Council wherein he mentioned that the minimum guarantee payment by TAFCON to MGMI is proposed was INR 35 lakhs instead of INR 40 lakhs, which was agreed in the previous Council meeting. As Mr Wadhwa explained the situation considering present circumstances, Chairman, Co-Chairman and Convener of the Exhibition Committee Convener felt likewise and the Council agreed this one time to further revise the amount to 35 lakhs. However, if the minimum target participation i.e. booking inside the Hall and for outside display area of 4500 sqm and 3000 sqm, respectively, are achieved, M/s. Tafcon will agree to pay MGMI a minimum guarantee amount of INR 40 Lakhs. MGMI will allow one delegate per 12 sqm stall in the conference of the Asian Mining Congress at concessional rates as applicable to the academic institutions, but the maximum no. of such delegates will be limited to 50 (fifty).

Whatever may be the guarantee amount, Tafcon will pay to MGMI INR 6 lacs (Rupees Six Lac only) per month w.e.f. March 31st, 2022, till the total amount is completed. Other clauses are almost the same as MOU of 8th AMC. Council agreed to it and approved and MOU was signed by Honorary Secretary and Tafcon signatory.

- Shri P.S. Mishra, Chairman, Organizing Committee said though time was very short and considering the pandemic, all-out efforts are needed to organise the Congress for two days in befitting manner. He was very much optimistic that many Asian countries will participate in the Conference too.
- President mentioned that Ministry of Coal, Government of India has requested MGMI to organize 'The Capacity Assessment' seminar during the 9th IME, 2022

with the Coal companies, CMPDI, Private Sectors for Stakeholder consultation, during the exhibition and read out the letter sent by Ministry to Chairman, CIL in this matter. It was decided that a whole session will be organised in the Conference on the topic on the 2nd day in compliance of the request of MoC.

- CEOs of large companies dealing in coal, mining or otherwise, as advised, will be invited to speak. The members present, discussed about the objective and possible way ahead for organising this Seminar and deliberations veered to the view that it should focus on the different capacity assessment of utilisation, manufacturing of Equipment, capacity of production, etc. Chairman, Conference suggested encompassing a broader meaning and asked Convener, Conference and Chairman, Technical Committee to focus on the issues and sectors that could possibly be incorporated in this session. He also assured that he would try to find out what the Ministry of Coal wanted and the thoughts of Secretary (Coal) on this matter. It was unanimously agreed that the Capacity Assessment seminar had to be done and it would be best if it was incorporated in the Conference itself.

Convener, Conference, Shri Rajiw Lochan said that this was one of the rarest opportunities for MGMI where Secretary (Coal) was directly involving himself in the event. For this he thanked the President and the 2 Chairpersons of the Conference and the Exhibition.

Honorary Secretary read out the budget placed by Shri Rajiw Lochan, Convener, Conference. The budget was accepted after he explained the costs, including justification for the apparently high budget for digital part. Agreeing that the budget is on the higher side, Sri Lochan insisted that during this pandemic, to live up to the image of AMC as a grand international event, with large foreign participation, a hybrid mode is a must for roping in international resources. Dr. Amalendu Sinha, Chairman, Technical Committee seconded this outlook and the budget was accepted after further discussions.

- The Honorary Secretary informed that Six(06) Life Membership applications have been received. All the applications were approved by the Council for Life Membership of MGMI.

Ordinary General Meeting

A virtual paper meet was held on 8th May 2021 at 5 P.M. It was organized, chaired and conducted by Prof Dr K Pathak, Editor-in-Chief, MGMI. At the outset Dr Pathak presented a short introduction of the event, welcomed the members & guests and introduced the speakers.

Four technical papers were presented in the meet which was virtually attended by more than 40 members and guests.

The presentations have been summarized below.

1) The paper '**Application of data analytics for performance analysis of dumptrucks**' by Pragjyoti Das, IIT KGP, Chandan Gautam, SECL and Khanindra Pathak, IIT KGP was presented by **Shri Pragjyoti Das**. The paper discussed the analysis of available operational data of high capacity of highway trucks in a surface coal mine to reveal its productivity and safety status. Shri Das presented case studies from Dipka OCP, Korba Coalfield and discussed computerised maintenance management system, methodology, key performance indicators, downtime causes, capacity utilization of machines. The data regarding the operations and breakdown were acquired and analyzed using available visualization tool Tableau. He concluded lack of manpower is a huge problem for the mine apart and it results in a lot of breakdown hours apart from the technical failures of the dumpers. The dumpers are not being used equally; some of the dumpers are being given more preference than others in certain aspects. The dumpers are run at very low capacity utilization. The loading of the dumpers is not properly done by the shovel operators and hence the dumpers are underutilized. The efficiency in time utilization is only 63.51% showing that the shovel dumper allocation is not done in an optimal way and can be improved.

Queries from S/Shri G.S. Khuntia, Ramesh Murlidhar Bhatawdekar and Dr N.C. Dey were answered by S/Shri Das and Chandan Gautam.

2) **Shri S.K. Sadangi**, CVO, CIL spoke very lucidly on '**Variation in Rake Loading of Coal & It's Consequence**'. He explained what is underloading and who pays for the underloading charge. Underloading happens when CIL fails to load a wagon to its Permissible Carrying Capacity (PCC) stipulated by Railway. It is thus the "idle /unutilized capacity" of the wagons that constitute a rake. It is a case of negative variation in loading. Railway Charges the customer freight for "full PCC" whether or not it is dispatched fully loaded. Then Shri Sadangi discussed the financial implication of underloading and past attempts to control underloading, citing case history from MCL. He showed revelation from data analytics and suggested his Mission : Underloading Minimization (MUM) which he successfully implemented at CIL. Its impact was discussed.

Queries from S/Shri G.S. Khuntia and Smarajit Chakrabarty were replied by the speaker.

3) **Shri Anjani Kumar** discussed the paper '**Experiment and Demonstration of Rapid Forest Regeneration over Steel Slag**' authored by Anjani Kumar, S V Brahmandam, IIT KGP, Khanindra Pathak, IIT KGP, Saroj Kumar Banerjee, TSBSL, Padmanav Mahakud, TSBSL. He discussed manufacturing of steel and generation of steel slag, elemental composition of BOFs, EAFs and LFs and slag bioremediation. He then talked about objective of the project, background of TSBSL. The challenges, methods & methodology and results were discussed in detail. Phenotypic observations

made for over a period of one year on twenty-two selected species have been observed and the best performing plant species was identified. Species belonging to the family Fabaceae out-performed others and have shown encouraging growth during the experimental period over the steel slag. There are significant impacts of meteorological factors like temperature, evapotranspiration, precipitation and soil moisture on plant growth.

Question from Dr N.C. Dey was answered by Shri Saroj Banerji.

4) **Mr Munir Ahmed** presented a paper on '**Flammable and Toxic Gasses in Opencast Coal Mines**', which he authored. According to him, the menace of flammable and toxic gasses in underground mines are well known and many literatures have been written on it. But that in opencast mines did not receive adequate importance.

He spoke on normal working of Opencast coal mines and the lost or left out coal in old cuts / workings. These lost coals are the menacing sites that are prone to fire due to spontaneous heating. He said these gasses are mainly of two types. (i) Gasses heavier than air – SO₂, H₂S, NO_x, CO₂; (ii) Lighter than air – CO, CH₄. He described these gasses and their behaviour.

During interactions, Dr N.C. Dey and Dr K. Pathak requested Mr Ahmed to enrich the paper with more data to make it suitable for publication in MGMI transactions.

The paper by Shri Saroj Banerji was deferred for the next session in June due to lack of time.

PUBLICATIONS

Transactions

MGMI Transactions, Vol 117 (April 2020-March 2021) has been printed.

News Journal

Four issues viz. Vol. 47 No 1 (April – June 2021), Vol. 47 No 2 (July – September 2021), Vol. 47 No 3 (October – December 2021) and Vol. 47 No 4 (January – March 2022) have been timely printed and distributed to the members.

LIBRARY

During the year about 85, Journals, periodicals, Bulletins, CD etc. have been added in the library. Selected publications both of the Institute and of other organizations have been re-arranged in the library shelves. Exchange relations during the year were reviewed.

FINANCIAL POSITION

The audited statement of accounts for the year 2021-22 is appended. Some members are in arrears of subscriptions. As the membership subscription is the main source of income of the Institute, attention of all members is drawn for timely payment of

subscription. The **Annual subscription shall be payable in advance of the first day of the commencing year.**

MEMBERSHIP

During the year under report 32 new members have been enrolled in different categories which are not at all encouraging.

ACKNOWLEDGEMENT

Our efforts are on for various developments in line with the objective of MGMI. Your support and valuable suggestions would be most welcome.

The Council gratefully acknowledges the assistance received from members serving on various Committees and record its sincere thanks to all who have helped the Institute by extending co-operation and assistance in various activities

Ranajit Talapatra

Honorary Secretary

For and on behalf of the Council, MGMI

In Memoriam

MGMI deeply mourns the sad demise of the following members :

- | | |
|----------------------|--------------------|
| • R SUDHAKAR | -848 -LM; 1952-53 |
| • JYOTIRMOY BOSE | -8254-LM; 2000- 01 |
| • SUNIL KUMAR BISWAS | -1193-LM; 1960-61 |
| • NIRMALENDU SAR | -6349-LM; 1979-80 |
| • T N JAGGI | -2939-LM; 1979-80 |
| • MS CHEEMA | -10190-LM; 2012-13 |
| • Dr KMK SINHA | -8510-LM; 2002-03 |
| • MHR RAO | -4804-LM; 1986-87 |
| • HIRANMOY NIOGI | -416-LM; 1946-47 |
| • HIMADRI BANERJEE | -10177-LM; 2012-13 |
| • PROF K L RAI | -4890-LM; 1986-87 |
| • K M LAL | -7954-LM; 1998-99 |
| • SUNIL KUMAR GHOSH | -4393-LM; 1984-85 |
| • AMAR KR MAZUMDAR | -2901-LM; 1978-79 |

MAY THEIR SOULS REST IN PEACE

**AUDITED BALANCE SHEET
WITH
INCOME & EXPENDITURE ACCOUNTS
2021 – 2022**

Blank

JHA & JHA

(Earlier known as R. S. Dwary & Co.)

CHARTERED ACCOUNTANTS

Head Office :

177, Jodhpur Garden

Opposite South City Mall, Kolkata-700 045

Tel : 033-4067-8325, 9874647256

Email : cajhaandjha@gmail.com

INDEPENDENT AUDITOR'S REPORT

To the Members of

The Mining, Geological & Metallurgical Institute of India

Report on the Standalone Financial Statements**Opinion**

We have audited the accompanying Standalone financial statements of **The Mining, Geological & Metallurgical Institute of India ("the Company")** which comprises the Balance Sheet as at March 31, 2022, the Statement of Income & Expenditure.

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid standalone financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India, of the state of affairs of the Company as at March 31, 2022, and Surplus for the year ended on that date.

Report on Other Legal and Regulatory Requirements

As required by Section 143(3) of the Act, we report that:

We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit.

In our opinion, proper books of account as required by law have been kept by the Company so far as it appears from our examination of those books.

- The Balance Sheet, the Statement of Income & expenditure dealt with by this Report are in agreement with the books of account. aforesaid standalone financial statements comply with the Accounting Standards specified under Section 133 of the Act, read with Rule 7 of the Companies (Accounts) Rules, 2014.
- On the basis of the written representations received from the directors as on 31st March, 2022 taken on record by the Board of Directors, none of the directors is disqualified as on 31st March, 2022 from being appointed as a director in terms of Section 164 (2) of the Act.
- With respect to the adequacy of the internal financial controls over financial reporting of the Company and the operating effectiveness of such controls, refer to my separate Report in "Annexure A".
- With respect to the other matters to be included in the Auditor's Report in accordance with Rule 11 of the Companies (Audit and Auditors) Rules, 2014, in our opinion and to the best of our information and according to the explanations given to us:
 - There is no pending litigation
 - The Company has no long term contracts.
 - There has been no delay in transferring amounts, required to be transferred, to the Investor Education and Protection Fund by the Company.

For **Jha & Jha**

Chartered Accountants

FRN: 328888E


Sudhip Kumar Sen, FCA, DISA
Partner

M. No. 052858

UDIN : 22052858AQTEXG6472



Place : Kolkata

Date : 02.09.2022

Branch-1
 Flat No. 402,
Sri Ram Kunj Apartment IAS Colony,
Billy Road, Danapur, Bihar-801503
Branch-2
 House No. 54, Dumjan No. 2,
Kajiranga, House No. 54, Dumjan No. 2,
Kajiranga, Golaghat, Assam-785609
Branch-3
 Dwary Marketing Complex,
Jhousagarhi, Deoghar-814112
Jharkhand.

INSTITUTE OF INDIA

Section 25 of the Indian Companies Act, 1883)

Companies Act, 1956)

31ST MARCH, 2022

Previous Year	A S S E T S	AMOUNT (Rs.)	AMOUNT (Rs.)
	FURNITURE & FIXTURE		
16,261.79	Balance as per last A/c	14,635.61	
	Add: During the year	–	
1,626.18	Less: Depreciation	<u>1,463.56</u>	13,172.05
	FURNITURE & FIXTURE		
50,255.53	Balance as per last A/c	45,229.97	
	Add: During the year	–	
5,025.56	Less: Depreciation	<u>4,523.00</u>	40,706.97
	FURNITURE FITTINGS & ELECTRICAL EQUIPMENT		
1,49,769.88	Balance as per last A/c.	1,40,633.89	
6,490.00	Add: During the year	–	
15,625.99	Less: Depreciation	<u>14,063.38</u>	1,26,570.51
	XEROX MACHINE		
36,165.73	Balance as per last A/c.	32,549.15	
3,616.58	Less: Depreciation	<u>3,254.91</u>	29,294.24
	AIR-CONDITIONING EQUIPMENT		
1,20,543.39	Balance as per last A/c.	1,08,489.05	
12,054.34	Less: Depreciation	<u>10,848.90</u>	97,640.15
	BICYCLE		
62.95	Balance as per last A/c.	56.65	
6.30	Less: Depreciation	<u>5.66</u>	50.99
	COMPUTER (RCP FUND)		
15,365.66	Balance as per last A/c	6,146.26	
	Add: During the year	–	
9,219.40	Less: Depreciation	<u>3,687.75</u>	2,458.51
	LEASE HOLD LAND FOR BUILDING		1,25,149.20
1,25,149.20	Balance as per last A/c.		
	MGMI LIFT		
2,56,000.00	Balance as per last A/c.		2,56,000.00
			<u>6,91,042.62</u>
			<u>7,28,889.78</u>

C/O

(Contd.)

THE MINING, GEOLOGICAL & METALLURGICAL

(Incorporated as a Company under

(Section 25 of the Indian

BALANCE SHEET AS ON

Previous Year	LIABILITIES	AMOUNT (Rs.)	AMOUNT (Rs.)
2,14,65,346.53	BF		2,09,61,201.03
	SCIENTIFIC RESEARCH ACTIVITIES PROJECT FUND:		
55,13,997.25	Balance as per last A/c	56,46,955.03	
2,51,530.00	Interest on FD	3,03,672.00	
		59,50,627.03	
	Less : Expenditure during the year		
	Honorarium to Staff		
1,239.00	Library Expenses		
91,600.00	Printing of Publication		
1,154.22	Bank Charges	720.00	
280.00	Postage & Telegram		
24,299.00	Travelling & Conveyance		
	Loan to 9th AMC MGMI A/c.		
	Service charge to Broker	65,000.00	58,84,907.03
	SUBSCRIPTION ADVANCE		
3,000.00	Balance as per last A/c.		500.00
	CENTENARY CELEBRATION ACCOUNT		
12,82,347.00	Balance as per last A/c.		12,82,347.00
	LOAN FROM RCP ACCOUNT		
5,36,220.00	Balance as per last A/c.		5,36,220.00
2,89,33,868.56			2,86,65,175.06

INSTITUTE OF INDIA

Section 25 of the Indian Companies Act, 1883)

Companies Act, 1956)

31ST MARCH, 2022

Previous Year	A S S E T S	AMOUNT (Rs.)	AMOUNT (Rs.)
7,28,889.78	BF		6,91,042.62
	BUILDING AT SALT LAKE		
27,89,733.00	Balance as per last A/c.	26,50,247.00	
1,39,486.00	Less: Depreciatin	<u>1,32,512.00</u>	25,17,735.00
	SECURITY DEPOSIT FOR BUILDING		
25,165.00	Balance as per last A/c.		25,165.00
	STAFF RETIREMENT BENEFIT FUND INVESTMENT		
5,38,894.00	On FD Account	5,38,894.00	
46,310.79	On SB Account	<u>72,028.79</u>	6,10,922.79
	BUILDING FUND INVESTMENT		
1,89,205.83	On SB Account		1,89,205.83
	FIXED DEPOSIT		
1,79,68,979.00	Balance as per last Account	2,10,68,171.00	
71,00,000.00	Add; During the Year	10,20,000.00	
40,00,808.00	Less : Withdrawal	<u>20,20,000.00</u>	2,00,68,171.00
	PROVIDENT FUND INVESTMENT		
5,66,806.00	On FD Account	6,20,509.00	
81,035.44	On SB Account	<u>1,45,052.94</u>	7,65,561.94
	SECURITY DEPOSIT FOR ELECTRICITY		
14,400.00	Balance as per last Account		14,400.00
	CURRENT ASSETS LOANS & ADVANCE		
64,830.00	(On Secured considered good)		
10,000.00	Advance Receivable in cash or in kind or value to be received less recovered		58,330.00
	TUBEWELL		
1,13,995.00	Balance as per last Account		1,13,995.00
	TAX DEDUCTED AT SOURCE		
3,29,431.75	Income Tax		
42,080.00	TDS on Others		
1,83,165.00	TDS on FD		
1,880.59	Sales Tax GST Credit		25,740.00
12,04,130.00	Less TDS Refund		
	MGMI AWARD FUND INVESTMENT		
14,52,383.00	Fixed Deposit with SBI Salt Lake	7,15,494.00	
1,00,165.11	SB A/c. with SBI	<u>27,993.11</u>	7,43,487.11
2,76,30,497.95			2,58,23,756.29
	C/O		(Contd.)

THE MINING, GEOLOGICAL & METALLURGICAL

(Incorporated as a Company under

(Section 25 of the Indian

BALANCE SHEET AS ON

Previous Year	LIABILITIES	AMOUNT (Rs.)	AMOUNT (Rs.)
2,89,33,868.56	BF		2,86,65,175.06
	LIABILITIES FOR EXPENSES		
57,480.00	Loan from RCP Petty Cash		57,840.00
	SECURITY DEPOSIT		
6,00,000.00	Balance as per last A/c.		6,00,000.00
	Add during the year		
	RECEIVED FROM RCP A/C		
5,97,579.00	Balance as per last A/c		5,97,579.00
	PAYABLE FOR TDS DEPOSIT		
5,000.00	As per last A/c		5,000.00
	Amount receivable from 3rd & 7th AMC	<u>35,10,600.00</u>	
35,10,600.00	On A/c. of reimbursement of Expenses		35,10,600.00
	Goods Service Tax (GST)		
	LIABILITIES FOR EXPENSES		
34,79,552.63	Excess of Income for Expenses	23,60,805.97	
11,18,746.66	Add: Excess of Income over Expenditure	<u>6,67,831.53</u>	30,28,637.50
	TDS Refund	6,47,572.66	
12,04,130.00	Add: refund during the year	2,43,000.00	
5,56,557.34	Less : TDS during the year	<u>5,59,183.00</u>	3,31,389.66
	Liability for Expenses		3,54,400.00
	GST Liability		1,62,733.00
3,67,13,266.19			3,73,13,354.22

Date : 02.09.2022

Place : Kolkata

UDIN : 22052858AQTEXG6472


Hony. Secretary
MGMI


Hony. Jt. Secretary
MGMI

INSTITUTE OF INDIA

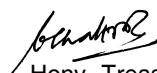
Section 25 of the Indian Companies Act, 1883)

Companies Act, 1956)

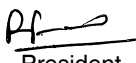
31ST MARCH, 2022

Previous Year	A S S E T S	AMOUNT (Rs.)	AMOUNT (Rs.)
2,76,30,497.95	BF		2,58,23,756.29
	EXCESS OF EXPENDITURE OVER INCOME		
	Balance as per last A/c		
19,425.00	FAX MACHINE (RCP Fund) as per last A/c.		19,425.00
	SCIENTIFIC RESEARCH ACTIVITIES INVESTMENT		
46,12,928.00	FD with SBI Salt Lake	46,12,928.00	
11,82,516.52	CD A/c. with SBI	14,20,468.52	
27,333.77	Petty Cash	27,333.77	60,60,730.29
	ADMINISTRATIVE OVERHEAD CHARGES		
58,831.00	Receivable from RCP & CC	5,83,831.00	
1,13,293.00	Amount Receivable from TAFCON	1,13,293.00	6,97,124.00
	RECEIVABLE FROM RCP A/C.		
8,67,240.00	Balance as per last A/c.		8,67,240.00
4,090.00	Mobile Phone as per last A/c.		4,090.00
	TRANSIT HOUSE OF MGMI		
1,14,350.00	Refrigerator	1,14,350.00	
77,845.00	Generator	77,845.00	
1,10,286.00	Misc. Assets	1,10,286.00	
50,840.00	Kitchen Materials	50,840.00	
72,340.00	Bedding Materials	72,340.00	
11,580.00	Washing Machine	11,580.00	4,37,241.00
36,640.00	Purchase of Projector as per last A/c.		36,640.00
	MGMI Sound System		
2,04,010.00	As per last A/c.		2,04,010.00
	CASH & BANK BALANCE		
2,25,108.74	SBI Salt Lake CD A/c	23,26,560.43	
30,510.00	SBI Park Street CD A/c	30,510.00	
236.21	Cash with Hony. Secretary	67,610.21	
1,85,110.00	SBI Consultancy A/c	1,85,110.00	26,09,790.64
5,47,950.00	Receivable from PF & Staff Retirement Fund as per last A/c.		5,47,950.00
5,215.00	Foreign contribution Regulation Act 2010 SB A/c.		5,357.00
3,67,13,266.19			3,73,13,354.22

Signed in terms of our report attached



Hony. Treasurer
MGMI



President
MGMI





Sudhip Kr. Sen
Chartered Accountant
Jha & Jha
Chartered Accountant

THE MINING, GEOLOGICAL & METALLURGICAL


(Incorporated as a Company under

(Section 25 of the Indian

INCOME AND EXPENDITURE ACCOUNT

Previous Year	EXPENDITURE	AMOUNT (Rs.)	AMOUNT (Rs.)
13,18,105.00	To Establishment		13,81,835.00
1,56,467.00	" Printing & Stationery		1,97,663.00
38,629.58	" General Charges		41,551.32
1,22,869.00	" Postase & Telegram		3,19,498.00
68,776.00	" Bonus to Staff		67,978.00
96,848.00	" Meeting Expenses		1,26,665.00
1,41,789.00	" Servicing & Repairing		3,55,318.00
30,720.00	" Contribution to PF A/c.		30,612.00
25,000.00	" Contribution to Staff Retirement Fund		25,000.00
49,477.00	" Staff Welfare		42,548.00
15,000.00	" Audit Fees		12,000.00
1,21,384.00	" Electricity Charges		1,16,105.00
68,536.00	" Travelling & Conveyance		1,12,679.00
2,81,248.00	" Security Service Charges		2,28,705.00
19,875.00	" Telephone Charges		21,895.00
95,320.00	" Municipal Tax		98,375.00
12,353.00	" Filing Fees		14,350.00
24,094.00	" Professional Fees		4,900.00
41,549.00	" Communication Expenses		25,398.00
48,202.00	" Water Tax (Nabadiganta)		36,740.00
4,99,959.00	" Printing of Publication		7,09,793.00
–	" Council Election Expenses		82,016.00
4,74,760.00	" Transit House Expenses		1,93,293.00
3,785.00	" Gardening Expenses		5,197.00
	" Puja Boksish		15,250.00
12,000.00	" Goods Service Tax (GST)		–
3,03,572.00	" MES '18 Seminar		–
1,90,842.00	" Short Term Course		–
8,260.00	" Library Expenses		4,130.00
1,56,811.00	" Accrued Interest		–
	" Honorarium to Staff		3,60,000.00
	" 9th Asian Mining Congress '22		17,65,600.00
44,26,230.58			63,95,094.32

INSTITUTE OF INDIASection 25 of the Indian Companies Act, 1883)
Companies Act, 1956)**FOR THE YEAR ENDED 31ST MARCH, 2022**

Previous Year	INCOME	AMOUNT (Rs.)	AMOUNT (Rs.)
	By Subscription from Members		
7,500.00	" @500x60	30,000.00	
20,000.00	" @20000x1	20,000.00	
50,000.00	" @50000x3	1,50,000.00	
9,00,000.00	" @100000x2	2,00,000.00	
	" @287x1	287.00	
			4,00,287.00
	" Donar Subscriber		
300.00	" Advance Subscription		3,000.00
660.00	" Membership Certificate Fees		1,320.00
	" Sale of Publication		10,428.00
	" Advertisement		2,55,600.00
18,29,837.00	" Intrest of FD		15,53,356.00
37,987.27	" Dividend on Units		69,301.01
58,180.00	" Transit House Income		4,750.00
	" License Fee		7,50,100.00
3,87,750.00	" Short Term Course		
1,11,930.00	" Goods Service Tax (GST)		
90,000.00	" 8th Asian Mining Congress '19		25,00,000.00
	" 9th Asian Mining Congress '22		16,40,000.00
	" Miscellaneous Receipts		45,001.00
	" Interest on FCR Act 2010 Saving Bank		142.00
34,94,144.27			72,33,285.01
C/O			(Contd.)

THE MINING, GEOLOGICAL & METALLURGICAL

(Incorporated as a Company under

(Section 25 of the Indian

INCOME AND EXPENDITURE ACCOUNT

Previous Year	EXPENDITURE	AMOUNT (Rs.)	AMOUNT (Rs.)
44,26,230.58	BF		63,95,094.32
	"Depreciation		
1,626.18	" Furniture & Fixture	1,463.56	
5,025.56	" Furniture	4,523.00	
15,625.99	" Furniture Fittings & Electrical Equipment	14,063.38	
3,616.58	" Xerox Machine	3,254.91	
12,054.34	" Airconditioning Equipment	10,848.90	
6.30	" Bicycle	5.66	
9,219.40	" Computer	3,687.75	
1,39,486.00	" Building	1,32,512.00	1,70,359.16
			6,67,831.53
			72,33,285.01
	" Excess of Income over Expenditure as per last A/c.	23,60,805.97	
	" Add: Excess of Income over Expenditure	6,67,831.53	30,28,637.50
46,12,890.93			30,28,637.50

Date : 02.09.2022
Place : Kolkata
UDIN : 22052858AQTEXG6472


Hony. Secretary
MGMI


Hony. Jt. Secretary
MGMI

INSTITUTE OF INDIA

Section 25 of the Indian Companies Act, 1883)

(Section 25 of the Indian

FOR THE YEAR ENDED 31ST MARCH, 2022


Previous Year	I N C O M E	AMOUNT (Rs.)	AMOUNT (Rs.)
34,94,144.27	BF		72,33,285.01
11,18,746.66	" Excess of Expenditure Over Income		
			<u>72,33,285.01</u>
	" Excess of Income over Expenditure transfer to Balance sheet		30,28,637.50
			<u>30,28,637.50</u>
<u>46,12,890.93</u>			<u>30,28,637.50</u>

Signed in terms of our report of such date


Hony. Treasurer
MGMI


President
MGMI




Sudhip Kr. Sen
Chartered Accountant
Jha & Jha
Chartered Accountant

MGMI AWARD FUND INVESTMENT

Sl. No.	Name of the Fund	Amount
1	Chretien Mica Gold Medal	3,090.82
2	Dewan Bahadur DD Thacker Coal Mining (Gold) Medal Fund	30,850.94
3	John Dunn Fund	7,595.00
4	Coggin Brown Memorial	18,504.78
5	Shivlal Award Fund	1,05,865.78
6	Nava Bharat Ferro Alloys Medal Fund	22,617.10
7	Indranil Award for Metallurgy	39,986.99
8	S. K. Nargundkar Award Fund	11,552.88
9	Oil India Medal Fund	8,441.51
10	McNally Bharat Medal Fund	14,408.36
11	Yule Award Fund	6,972.40
12	Dr. Hari Narain Medal Fund	11,119.82
13	M.L. Rungta Award Fund	25,948.95
14	S. C. C.L. Medal Fund	16,441.31
15	Neyveli Lignite Medal Fund	17,191.08
16	Smt. Bala Tandon Award Fund	18,092.66
17	Coal India Project Implementation Trophy Fund	5,641.16
18	G. S. Jabbi Memorial Fund	355.08
19	Subrata Ghosh Award Fund	21,594.20
20	D. N. Thakur Award Fund	20,000.00
21	R. P. Bhatnagar Award Fund	1,32,416.42
22	Contribution by MGMI	50,000.00
23	Nirja Sahay Award	30,000.00
24	Sukumar Rakshit Award Fund	26,989.73
25	Lala Ram Krishore Singhal Award	40,000.00
26	Kalyan Mukherjee'61 Geology' Award Fund	70,000.00
27	H. B. Ghose Award	1,00,000.00
28	Prof. S. K. Bose Memorial Award Fund	50,000.00
29	Prof. Dr. Mahendra Pratap Singh Memorial Coal Science Award	5,00,000.00
		<u>14,05,676.97</u>
	Less : Expenses incurred	
	As per last A/c.	6,02,693.37
	Add : During the year	<u>9,10,226.00</u>
	Including administrative Overhead Rs.	(-) 1,07,242.40
	Add : Interest on F.D. & SB Account	
	As per last A/c.	7,11,861.37
	Add : During the year	<u>1,01,165.00</u>
		<u>8,13,026.37</u>
		<u>7,05,783.97</u>
	Date : 02.09.2022	
	Place : Kolkata	
	UDIN : 22052858AQTEXG6472	

MGMI CHAPTERS

