



Report of the Council and Audited Balance Sheet with Income & Expenditure Accounts 2018-19



THE MINING, GEOLOGICAL & METALLURGICAL INSTITUTE OF INDIA

GN-38/4, SECTOR-V, SALT LAKE, KOLKATA-700 091

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113th ANNUAL REPORT

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MGMI Council for 2018-19

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Prof (Dr) S K Mukhopadhyay, Former Prof, IIT Kharagpur

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Dr Amalendu Sinha, Former Director, CSIR - CIMFR

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Prof S P Banerjee, Past President, MGMI & Former Director, ISM, Dhanbad

THE MINING, GEOLOGICAL & METALLURGICAL INSTITUTE OF INDIA

REPORT OF THE COUNCIL

The Council has the honour to present 113th Annual Report on the activities of the Institute for the year 2018-19 (April 2018 to March 2019).

PROCEEDINGS OF THE 112TH ANNUAL GENERAL MEETING FOR THE YEAR 2017-18

The 112th Annual General Meeting of MGMI was held at the Biswa Bangla Convention Centre, DG Block, New Town, Kolkata-700156 on Saturday the 29th September 2018 at 5p.m. The meeting started with observance of 2 minutes silence to mourn for the departed souls of members who left us during last one year, Rakesh Srivastava, Mahendra Pratap Singh, Dr Debasish Sarkar, R N Das, Phalguni Guha, P R Basu, Vinay Mahajan, PKS Guha, Utpal Kr Basu, T R Jayaraman, Buddheswar Das and B N Mukherjee.

The meeting was attended by: S/Shri R K Saha, A K Jha, Prasanta Roy, S K Ghosh, R Talapatra, N K Nanda, LK Bose, JP Goenka, Purnendu Sekhar Paul, Arun Kumar Prasad, Smarajit Chakrabarti, Ajit Kumar Singh, Ashis Kr Mondal, Asit Baran Bhol, Suhrid Kumar Samanta, Akhilesh Choudhury, Dr. Tapas Kumar Mallik, Dr. Sourindra Mohan Kolay, Dr. Debdas Ray, Amitabha Chowdhury, Dr. Ajay Kumar Singh, BK Jha, NC Dey, Arpita Tripathi, Debabrata Mondal, Sandip Choudhuri, JP Pandey, Dr Srikant Annavarapu, Ajay Jha, Lalit Kumar, G Saikiren, Panchala Abhishek, Nagamalla Shesna, Sanjay, Dr MP Roy, Priyadarshi Suman, Rituraj, PR Mandal, S Roy, SR Khanna, AR Sarangi, Arun Chandra Kundu, PR Prasad, Ranjit Datta, Goutam Mukherji, Anupendu Gupta, Debdas Ray, Bhaskar Chakraborti, RK Saha, Anup Biswas, Dr Kalyan Sen, SK Acharya, Dr Samir Dasgupta, Kalyan Kumar Roy, Prof. GP Karmakar, Dr Amalendu Sinha, NC Jha, MK Prasad, Suman Saurabh, Dr DS Rao, Dr G Sahoo, Dr A Tripathy, Maitrey Desai, RM Bishwal, SK Singh, DK Mitra, AB Bhol, Dr Ashok Kr Singh, Dr Ajay Kr Singh, AK Debnath, AV Sahay, SR Panja, Biplab Mukherji, Narendra Nath Chattopadhyay, DK Kundu, AK Karmakar, BC Bhattacharya, PK Ray, MK Singh and Rajiw Lochan.

At the outset the Hony. Secretary, Shri Rajiw Lochan extended welcome to Dr N K Nanda, President, MGMI, Shri R K Saha, Shri N C Jha, Past Presidents of MGMI, Shri Anil Kr Jha, President- elect, all Members present, Awardees and Guests.

- **To confirm the Minutes of the 111th Annual General Meeting held at the hotel, The Westin Kolkata, Rajarhat on Friday the 10th November 2017 at 3.00 p.m.**

The notice convening the 112th Annual General Meeting was read by Shri Rajiw Lochan, Hony. Secretary, MGMI. Minutes of the 111th Annual General Meeting was circulated to

the members. Actions taken on the minutes, especially on election process were presented by the Hony. Secretary and the General Body approved and adopted the Action taken Report. It was also further agreed that the ballot papers will be sent to members by speed post allowing increasing the gap between dispatch and receiving of the ballot papers should be at least 60 days. Accordingly, modification has to be incorporated in the Memorandum and Article of Association of MGMI at the relevant clause. The modified Minutes were confirmed by the House.

- **To receive and adopt the Councils Report :** Audited Balance Sheet and Statement of Income and Expenditure Accounts for the year 2017-18 ended on 31st March 2018 (distributed at the House) were approved and adopted unanimously.
- **To appoint the Institute's Auditors for the year 2018-19 :** The Council at its 880th meeting recommended the name of Shri Sudip Kr Sen for appointment as Auditor of MGMI at Remuneration of Rs. 12,000/- for assignments of Audit, ROC, Annual filling, IT Returns and GST Returns etc. for the year 2018-19.
- **Announcement of the recommendations and presentation of Awards and Medals for the year 2017-18.**

The prize distribution began against performances during the year 2017-18. MGMI Awards and Scroll of Honours were presented to the awardees by Dr N K Nanda, Shri N C Jha, Shri R K Saha, Shri A K Jha, and others.

- **Dewan Bahadur D D Theacker Coal Mining Gold Medal** awarded to Dr Ajay Kr Jha, for his outstanding contribution in Coal Mining.
- **Prof. S K Bose Memorial Award** for Excellence in teaching of Mining Engineering awarded to Prof. B K Shrivastva, Coordinator, Centre of Advanced Studies, Department of Mining Engineering IIT, BHU.
- **Dr J Cogging Brown Memorial Gold Medal** for Geological Sciences awarded to Prof (Dr) Om Prakash Verma, Executive President and Hony Editor, Indian Geological Congress.
- **R P Bhatnagar Award**, awarded to Dr Alok Tripathy, Scientist in Mineral Processing Department, CSIR – Institute of Mineral and Material Technology, Bhubaneswar (Gold Medal and cash Award Rs. 5,000/-).
- **H B Ghose Award** for the Manager having best safety performance during the year 2017-18 to Shri Raj Kishore Singh, Manager, Gare Palma of underground mine of IV/4 of Hindalco and Shri Arun Kumar Das, Manager having best Safety performance during the year 2017-18 of Sarisatolli Coal mine of CESC Ltd. of Opencast.

- **John Dun Medal** awarded to Dr Prabhakar Sangurmath, General Manager (Co-ord), Hutti Gold Mines Co. Ltd.
- **D N Thakur Award** for outstanding contribution in Earth Sciences awarded to Dr Tapas Kr Mallik former Director Marine Wing, GSI.
- **Prof (Dr) Mahendra Pratap Singh Memorial Coal Science Award** for significant contribution in the field of high quality scientific work on Coal exploration and characterization to Dr Ashok Kr Singh, Sr Principal Scientist and Head of Research Group, CSIR (Gold Medal and Cash Award Rs. 15,000/-).
- **Indranil Award** for outstanding contribution in Ferrous Metallurgy to Dr Gadadhar Sahoo, Sr Manager, Physical Metallurgy Group, RDCIS (SAIL).
- **Lala Ramkishore Singhal Award** for outstanding contribution in the field of Conservation of Minerals to Dr Danda Srinivas Rao, Sr Principal Scientist and Professor AcSIR, CSIR Bhubaneswar.
- **Institute's Gold Medal** awarded for the best paper in order of merit read in the OGM and published in MGMI Transactions for the paper on “**Utilisation of Low Grade Chromite Ore for the Production of Carbon Free Ferrochrome**”. The paper authored by Prof (DR) Rajib Dey, Amit Kr Bhandari, Maharshi Ghosh Dostidar, Sidhartha Mukherjee and Mahua Ghosh Chaudhuri, all are in Metallurgical and Material Engineering Department of Jadavpur University.
- **MGMI Chapter Membership Growth Award** for the highest enrolment of Members awarded to **MGMI Hyderabad Chapter** for 2017-18.
- **MGMI Chapter Activity Award** for the highest number of Technical Activities awarded to **MGMI Ranchi Chapter** for 2017-18.

Student Awards for 2016-17

- **Pickering Medal** for the Best Student in Mining Engineering awarded to **Shri Tejaswi Agarwal** of IIT (ISM), Dhanbad.
- **Hayden Medal** for the Best Student in Applied Geology awarded to **Shri Abhinav Kumar** of IIT (ISM) Dhanbad.
- **Yule Medal** for the Best Student in Mining Machinery awarded to **Shri Ankur Varma** of IIT (ISM) Dhanbad.
- **Mc Nally Bharat Medal** for the Best Student in Mineral Engineering awarded to **Shri Akash Chandra** of IIT (ISM) Dhanbad.
- **Dr. Hari Narayan Medal** for the Best Student in Applied Geophysics awarded to **Shri Vikas Kumar Jaiswal** of IIT (ISM) Dhanbad.

- **Oil India Medal** for the Best Student in Petroleum Engineering awarded to **Shri Shlok Rai** of IIT (ISM) Dhanbad.
- **Chandrakala Medal** for the Best Student in Petroleum Engineering awarded to **Shri Abhisek Kumar** of IIT, Kharagpur.
- **S Lal Medal** for the Best Student in Mining Engineering awarded to **Shri Priyadarshi Suman** of IEST, Shibpur.
- **Indranil Medal** for the Best Student in Metallurgy awarded to **Ms Asmita Chakraborty** of IEST, Shibpur.
- **Indranil Medal** for the Best Student in Metallurgy awarded to **Ms Priya Akshay Mehta** of IIT, Kharagpur.
- **Smt. Nirja Sahay Medal** for M.Sc(Applied Geology) awarded to **Shri Sanket** of IIT, Kharagpur.
- **La Touch Medal** for the Best Student in Geology (3yrs degree course) awarded to **Km Kuhoo Madhav** of IIT, BHU.
- **La Touch Medal** for the Best Student in Geology (2yrs degree course) awarded to **Km Arpita Tripathi** of IIT, BHU.
- **Kalyan Mukherjee “61 Geology” Medal** for the Best Student of M.Sc (Geology) awarded to **Shri Sandip Choudhuri** of University of Calcutta.
- **Roberton Medal** for the Best Student in Mining Engineering awarded to **Ms Khushi Sahu** of IIT, BHU.
- **Nava Bhrath Ferro Alloys Medal** for the Best Student in B.Tech Mining Engineering awarded to **Shri R Sanjay Kumar** of Kakatiya University.
- **SCCL Gold Medal** for the Best Student in Mining Engineering awarded to **Shri Gandhe Sai Kiran** of Kakatiya University.
- Presentation of **Scroll of Honour** to the following **Life Members with 50 years** standing of Membership (1967-68)
S/Shri Babu Ram Marwah, N.C. Mitra, Pratap Jung Bahadur and Rajender Khoda
- Presentation of **Scroll of Honour** to the following **Life Members with 25 years** standing of Membership (1992-93)

S /Shri A.B. Wadood Hossain, Dr. Abhijit Mukhopadhyay, Ajit Kumar Chatterjee, Dr. Ajoy Kumar Dey, Dr. Akshaya Kumar Sarangi, Amal Kumar Das, Amitabha Chowdhury, Ardhendu Sekhar Banerjee, Arun Chandra Kundu, Ashok Govind Watwe, Ashok R. Walmiki, Prof. Baidya Nath Prasad Gupta, Baskaran Dharam, Braj Bhushan Gupta, Chitta Ranjan Das, Cillanki Rajagopala Rao Ravi, Devapriya Ghose, Dipak Kumar

Roy, Durga Charan Panigrahi, G. Vegeesan, Dr. Gajananrao N. Jadhav, Ganesh Chandra Mrig, Gautam Mukherjee, Prof. Dr. Gurdeep Singh, Hridayanandan Tripathy, K. Ramchandran,, K.C. Brahma, K.N. Sharieff, Dr. K.S. Balasubramaniam, Kajal Sinha, Dr. Kalyan Kumar Roy, Kashinath Kadadi, Dr. Kodagihalli V. Krishnamurthy, Dr. M.V.R. Murthy, Dr. Mahendra Kumar Sharma, Malipatil Shankar Gouda, Manoranjan Das, Mohammed Iqbal Alam, Dr. Mrinal Kanti Ghose, Muniswamy Shanth Kumar, N.V. Vijay Gopal, Narendra Nath Chattopadhyay, Dr. Om Prakash Mishra, P.V. Shridharan, Pradeep Kumar Parhi, Pradip Kumar Jana, Pratik Bose, Raj Kumar Sachdeva, Dr. Rajranjan Prasad Verma, Rama Prasad Mukherjee, Ramapada Maiti, Ramesh Khanna, Ranjit Kumar Datta, Ranjit Kumar Paul, Rupen Saigal, S.K. Mondal, Sailendra Nath Das, Sanat Kumar Mitra, Saradchandra Balakrishna Sarwate, Satish Chand Agarwal, Shakti Priya Banerjee, Shyam Sundar Saha, Dr. Shyamal Kanti Chakraborty, Subal Chandra Mandal, Dr. Subha Sankar Sarkar, Subhas Chandra Naulakha, Dr. Subhranshu Kanto Acharyya, Subramanian Natarajan, Subrata Kumar Ghose, Subrata Kumar Ghosh, Sudhir Bandyopadhyaya, Suwendu Bose, Dr. Swapan Kumar Sarkar, T. Kotrappa, Prof. Dr. Tarakeswar Kumar, Tuhin Kanti Deb, V. Satyanarayana, Dr. Vermavarapu M.S.R. Murthy.

- Dr N.K. Nanda, President, MGMI delivered the Presidential Address in the meeting, thanking the Members, Council Members, Staff Members and others associated with MGMI for the help received during his tenure which helped smooth functioning of MGMI activities. In his address, he highlighted that MGMI may re-engineer itself from a knowledge sharing organization to take the leadership of the mineral industry and professionally elevate the industry into a high pedestal of Indian Economy that it rightfully deserves.

As awareness and resultant competition increases, only the fittest and the fastest amongst the provider organizations will survive. It is, therefore, imperative for MGMI to look beyond the present horizons and find out how the mineral industries are being developed to meet national objectives. More importantly why and how the developed countries, are ensuring competitiveness in productivity, price, quality and market ability of their mineral resources and products.

Having an age-old tradition is well but at the same time embracing new changes to remain relevant with a world-class quality of professionals is equally important. There is no reason why MGMI cannot become a Pan India and globally accepted professional body. What is needed is positive mindsets and conviction in fighting the cause of mineral industry at all fronts. Corporate bodies are engines of growth of the society. In this context, it is quite apt to Archimedes' quote "give me a Lever long enough and Fulcrum strong enough, single handed I can move the World. Yes Corporate Governance can be fulcrum with Board.

- **Declaration of Election of the President for the year 2018-19** – The Council at its 880th meeting unanimously elected Shri Anil Kr Jha, Vice President, MGMI and Chairman, Coal India Ltd as President of MGMI for the year 2018-19. President, Dr N K Nanda handed over the Presidential Scholler to President – elect, Shri Anil Kumar Jha.
- Shri Anil Kumar Jha, President installed of MGMI expressed his gratitude to members and thanked senior members for showing confidence on him. He also expressed good wishes to MGMI with commitment that more recognitions will be brought to its fold for its well deserved glory. He sought blessings from Senior Members and whole hearted active support from Members to make it more vibrant, financially independent. MGMI deserves more recognition and for that members need to be more active and be involved in its activities to keep it at top of the world. He suggested that pool of dedicated technical experienced members should share their creative experience and disseminate it by exchanging their ideas at different forum for the betterment of our professional organization and Industry. We are proud of our knowledge banks which need to be optimized.
- A Committee was formed in AGM under the Chairmanship of Shri N C Jha on the proposal to become RPO of the CRIRSCO for Public Reporting on Estimation of Resources and Reserves where MGMI members can be RCP. Recommendations of the Committee were made and presented at the AGM by Past President and Chairman of the Committee Shri N C Jha. Observations & Recommendations were placed to the house wherein the Committee specially pointed out that the financial implications of MGMI joining the CRIRSCO/ NACRI as RPO has no merit. The Committee finally recommended that MGMI should not join CRIRSCO as an RPO with their terms & conditions and present status, which was unanimously endorsed by the house.
- **Declaration of Election of the Council Members for the years 2018-19, 2019-20 and 2020-21** - Shri J.P. Goenka, Chairman, Board of Scrutinizers, presented the results of Election of the Council Members. The following Council Members were elected/re-elected for the years 2018-19, 2019-20 and 2020-21.
 1. Shri Akhilesh Choudhury, 2. Shri Anil Kr Karmakar, 3. Shri Anup Biswas,
 4. Prof. Bhabesh Chandra Sarkar 5. Dr Netai Chandra Dey and
 6. Shri Virendra Kumar Arora

Shri Goenka suggested that since response of members for voting is not encouraging, we may explore modality for better response i.e; e-voting etc. Shri Rajiw Lochan, Hony. Secretary informed the house that it will be examined in details considering that MGMI represent members from all over the Country and most of the members are very senior also, therefore, for the time being ballot papers will be sent to the members by

Speed Post, instead of ordinary post which is current best practice. It will keep record of ballot papers sent and undelivered ballot papers returned by post office. The house approved the proposal.

The 112th Annual General Meeting ended at about 6.45 p.m. with Vote of Thanks proposed by Shri Rajiw Lochan, Hony. Secretary.

HEADQUARTERS ACTIVITIES

There were three Council Meetings held during the Sessions 112 and 113: the CM 879th on 28th April, 2018, CM 880th on 18th August, 2018 and CM 881st on 8th December 2018.

COUNCIL MEETING OF 112TH AND 113TH SESSIONS

HIGHLIGHTS OF 878TH COUNCIL MEETING (Approved in CM 879 dt. 28.4.2018, Session 112)

The 878th COUNCIL MEETING was held at Hotel Golkonda, Hyderabad on 24th February, 2018

Dr N K Nanda, President was in the Chair. The meeting was attended by Prof B B Dhar, S/Shri R K Saha, Avijit Ghosh, Rajiw Lochan, Ranajit Talapatra, Samir Kr Ghosh, A Acharya, Dr J P Barnwal, Dr Sajal Dasgupta, A K Karmakar, Dr Amalendu Sinha, D K Kundu, Dr Abhijeet Mukherjee and Dr P V Rao (CRIRSCO).

The Council confirmed the minutes of the 877th meeting of the Council held at MGMI Bldg., Kolkata on 16th December, 2017.

It was decided that the MoU for the Exhibition with M/s. TAFCON may be prepared which will be signed by the competent Authority of MGMI after receiving full payment on account of Exhibition and Delegate received through them.

Hony. Secretary presented the summary of the minutes of the Golf Committee and noted that the Golf Tournament would be held at MCL Golf Club, Sambalpur on Sunday the 18th March 2018.

MGMI principally agreed to hold a two-day professional training programme to its members in a suitable area in April / May 2018 on CRIRSCO Template and its compliant standards, applicable to coal and minerals. All the expenses including travel and stay of overseas and domestic faculty, holding the training programme and others will be borne by MGMI.

HIGHLIGHTS OF 879th COUNCIL MEETING

The 879th Council Meeting was held at MGMI Bldg., Kolkata on 28th April, 2018.

Prof S P Banerjee, S/Shri R K Saha, P R Mandal, Rajiw Lochan, Ranajit Talapatra, Samir Kr Ghosh, V K Arora, Dr J P Barnwal, Anup Biswas, Bhaskar Chakraborti, A K Karmakar, Prof(Dr) G P Karmakar, Dr A K Moitra, Prof(Dr) Subir Kumar Mukhopadhyay, Prof Biswajit Samanta and D K Kundu were present.

The Council confirmed the minutes of the 878th meeting of the Council held on 24th February, 2018 at Hyderabad.

The Council noted that a meeting between MGMI and CSIR-CIMFR was held on 14th April 2018 at MGMI Bldg. Various topics proposed for training were identified and some of them were: Explosive and Blasting, Mine fire and Ventilation, Quality Control in Mines, Mine Safety Techniques, Mining Machinery, Maintenance and Tribology, Mine Environment / Green Mining/ Global Warming etc., Mine Policies and Statutes, Site Specific Customized Courses, Mineral Beneficiation

It was decided that more topics would be invited from the members. It was also further decided to target two courses (one in each week) in the Financial Year. Venue for the Courses would be both at MGMI HQs. and CIMFR Dhanbad. Budgetary estimate would be prepared after the Course Topics were finalized.

A new Award has been introduced in the name of **Prof. (Dr.) Mahendra Pratap Singh Memorial Coal Science Award** (A Gold-plated Medal, Cash Award of Rs. 15,000/- and a Certificate). **Criteria** - Any person with academic background of Geology/ Geosciences/Chemistry/Chemical Technology, who has proven knowledge and has made outstanding contribution in Coal Science mainly in the areas like Coal Characterization, Coal Petrology, Coal Beneficiation and Carbonization, Coal Combustion, Clean Coal Technologies (CCTs) including Coal Gasification and Liquefaction and value added material from Coal, during the last five years including the current year, shall be eligible.

The proposed Judging Committee Members would be Shri Shekhar Saran, Dr. Amalendu Sinha, Dr Ajoy Kr Moitra, Shri Ranjit K Datta, Shri Prasanta Roy, Donor Representative and Hony. Secretary / Hony. Jt. Secretary.

The Council approved 10 Life Membership applications.

HIGHLIGHTS OF 880th COUNCIL MEETING

The 880th Council Meeting was held at MGMI Bldg., GN-38/4, Sector – V, Salt Lake, Kolkata – 700 091 on 18th August, 2018.

Dr N K Nanda , President in the Chair. The meeting was attended by S/Shri Jha N C, R K Saha, A N Sahay, Rajiw Lochan, Ranajit Talapatra, Prof (Dr) Khanindra Pathak, Samir Kr Ghosh, V K Arora, Bhaskar Chakraborti, J P Goenka, Prof. (Dr) G P Karmakar, Dr A K Moitra, Prof (Dr) Subir Kumar Mukhopadhyay, Prasanta Roy, Dr Amalendu Sinha, D K Kundu.

The Council confirmed the Minutes of the 879th meeting held on 28th April, 2018 at MGMI Bldg. Kolkata – 700091.

The Auditor's Report and Audited Accounts for the Financial Year ended on 31st March 2018, were placed before the Council for consideration. The Council gone through the Auditor's Report, Balance Sheet for 2017-2018 and was approved.

Shri Sudhip Kr. Sen, Chartered Accountant and one of the Partners of M/s. Halder and Dutta Company gave his consent for appointment as auditor of MGMI and agreed for Rs. 12,000/- for execution of all assignments of Audit, ROC, Annual Filling, IT Returns, GST / TDS returns etc. The Council agreed to appoint Shri Sudhip Kr Sen as Auditor of MGMI for 2017-18 & 2018-19 at remuneration of Rs. 12,000/- per year.

Shri Anil Kr Jha, Chairman, Coal India Ltd. and Vice President, MGMI was unanimously elected as the President of the Institute for the year 2018-19.

The Council approved 11 Life Membership applications.

During the Session, One Ordinary General Meeting was held.

The Ordinary General Meeting of the 113th Session was held at the Headquarters Bldg., of MGMI, at GN 38/4, Sector V, Salt Lake, Kolkata 700 091 on Saturday, the 23rd March, 2019.

The Honorary Jt Secretary, Shri Ranajit Talapatra, extended welcome to all the Members, Speakers and Guests present. Shri Talapatra proposed the name of Shri Smarajit Chakrabarti, a senior member of MGMI and former CMD, ECL to Chair the Session. The proposal was seconded by Shri Prasanta Roy. Shri Smarajit Chakrabarti took the Chair and welcomed to the Speakers, Council Members, Members and Guests. The Chairman thereafter took up the Agenda items and requested the Speakers to present their papers one by one. He also advised the Speakers to present their papers first, preferably within 10 minutes and thereafter participants may raise question, if there be any.

The following six papers were scheduled for presentation, however, five papers were presented.

- i) **“Reliability and availability analysis of a Continuous Miner Machine in an Indian Underground Coal Mine”** by Shri Sumit Banerjee, Prof N C Dey - IEST, Shibpur. This paper was presented by Shri Sumit Banerjee and complimented by Prof. Dr. N C Dey.
- ii) **“Geomorphic Indicator Model for Identifying Manganese Mineralization”** by S/ Shri Shaurav Kumar, Tata Steel Ltd, Asim Chatterjee, Dr Rajesh Mukherjee, Rajib Deb and S Ainampudi. This paper was presented by Shri Shaurav Kumar.
- iii) **“Laboratory Measurement of Permeability of Argon and Carbon-di-Oxide in Coal”** by Ms. T Baksi, Prof K Pathak, Prof B K Prusty and Prof S K Pal. This paper was presented by Ms. T Baksi and complemented by Prof. Dr K Pathak.

- iv) **“Estimation of Skeletal Muscle Force, Fatigue and its recovery testing by Hand-grip Dynamometry (HGD) including assessment of Occupational Stress Variability (OSV) of Deep Underground Miners”**
by Shri Shibaji Dey, Doctoral Scholar, IEST and Prof N C Dey. This paper was presented by Shri Shibaji Dey and supplemented by Prof. Dr. N C Dey.
- v) **“Development of a Gui Based Software for Surface Deformation Mapping through Din SAR Processing : An Indian Coal Mine Context”**
by Tapas Kumar Dey, Prof Biswajit Manna, Debashish Chakravorty, Biswajit Samanta and Arundhati Misra. This paper was presented by Shri Tapas Kumar Dey.
- vi) **“Comparison of Efficiency of use of Polyurethane coating of Hydrotransport Pipelines and Steel Pipelines on the basis of Parameters of Abrasive wear”** by Prof Alexandrov, Saint-Petersburg Mining University and Prof. Maria Vasilyeva. As Prof Alexandrov could not personally manage to come from Petersburg for presentation, so the paper could not be presented before the audience.

There were lively discussions on the papers as presented. The Chairman appreciated Speakers for their works and valuable contribution. However, some questions were raised by the members and the questions were adequately clarified by the Speakers. The Chairman, Shri Smarajit Chakrabarti while summing up, thanked the Speakers especially to Shri Shaurav Kumar for taking the trouble of coming all the way from Jamshedpur. He also thanked the participants to take part in the discussions.

The Honorary Jt Secretary, Shri Ranajit Talapatra while giving vote of thanks, he mentioned that the papers presented in the OGM will be printed in MGMI Transactions.

A Workshop on Resources and Reserves Estimation and Reporting in India was held during May 25 - 26, 2018 at the hotel, Pride Plaza, Newtown, Rajarhat, Kolkata.

Chief Guest, Shri Anjani Kumar, Shri N C Jha, Chairperson, Mr. Harry M Parker, Dr P V Rao and Dr Abani R Samal were requested to light the ceremonial lamp.

Shri N C Jha, Chairperson in his welcome address briefly apprise about the system presently being followed in India in respect of estimation of coal resource and reserves.

He said these are absolutely necessary for any investment decision, Shri Anjani Kumar, Chief Guest of the workshop was requested to address the participants. The Chief Guest in his address highlighted the present system followed by the Government, Private Sectors and the present scenario of Coal Mining in our Country and what more needed to attract the foreign investment.

The workshop on Coal Resources and Reserves Estimation and Reporting in India organized by MGMI in association with CRIRSCO and the National Core Committee (NACRI) was started at 11.30 with the introduction to CRIRSCO and its role in the public reporting systems in the world by Mr. Harry M Parker the Former Co-chairperson CRIRSCO. Dr P V Rao, Co-chairman, NCC spoke on CRIRSCO activities in India. Dr Abani R Samal spoke about the IMIG -Importance to current Indian Scenario in India on the need for IMIG, IMIG Development and Comments of IMIG.

Mr Kerry Whiteby spoke on Coal Resource and Reserves and Reporting as practice in leading mining countries such as South Africa and Australia.

Mr. Harry M Parker spoke on Aspects of Competent Person reporting and reasonable prospects for eventual economic extraction.

The workshop continued to second day, on 26th May, 2018 also and the session started by Dr Harry M Parker. Mr. Parker spoke on Differences between Mineral and Coal reporting in CRIRSCO Template. Thereafter, Mr Kerry Whiteby spoke on Reasonable prospects for eventual economy extraction and role of Resource and Reserves Competent Persons in implementing PREEE in Coal.

Dr Abani R Samal spoke about NACRI proposed Competent Person registration system in India.

Mr. Prasanta Roy, Coordinator of the workshop spoke on Implementation of Coal Resource and Reserve Reporting System in India – a broad perspective.

In the second session, Dr P V Rao spoke on Role of Government in Public Reporting of Resources in India. Thereafter, there was question answer session moderated by Dr P V Rao and Dr Abani R Samal.

In the concluding ceremony, Dr Harry M Parker, Mr Kerry Whiteby, Dr Abani R Samal, Dr P V Rao were invited to complement. Shri Roy requested Shri N C Jha to finally close the ceremony with few words. Shri Jha in his closing remarks said that it was really a grand success workshop and educative also and he thanked to the faculties and participants.

Report of the National Seminar on Management of Excavation Stability was organized by the Institute at Biswa Bangla Convention Centre, New Town, Kolkata on 29th September 2018.

At the Inaugural session, dignitaries on the dais were Dr N.K. Nanda, President, MGMI & Director (Technical), NMDC, Shri Binay Dayal, Chairman, MES 2018, Shri P.R. Prasad, Convenor, MES 2018 and Shri Rajiw Lochan, Hony Secretary, MGMI.

Dr N.K. Nanda in his welcome address thanked the Chief Guest, other dignitaries, members and guests for spending their valuable time for this event of MGMI. He briefly talked about MGMI, the vast reservoir of talent, experience and multiple

expertises it possesses and its activities, highlighting the importance of the topic of the Seminar.

Shri Binay Dayal, the Chairman of the Seminar and Director (Technical), CIL introduced the seminar theme. He spoke a few words on MGMI and then on coal production in India and with special reference to the contribution of CIL.

Shri P R Prasad, Convenor, MES 2018 introduced Shri A K Jha, Chairman, CIL, the invited Guest and the Doyen of Indian Coal Industry. In his introductory address, Shri Prasad described, Shri Jha as a Mining Engineer of extra ordinary capabilities in Mining and Mine Management.

Shri P.K. Sarkar, Chief Guest was introduced by Shri Ranajit Talapatra, Hony. Jt. Secretary, MGMI.

In his illuminating address, Shri Sarkar at the outset expressed his happiness over the opportunity that he got to be with so many stalwards associated with the Indian Mining and Mineral Industry and has also opportune occasion to share concern of DGMS and seek help and support from the seminar participants to improve safety and well being of mine workers.

The session was set in motion by introductory speech by the Chairman of the session, Prof. (Dr.) O.P. Varma, Executive President, Indian Geological Congress.

Dr Loren J Lorig, Itasca International, Inc., USA, delivered lecture on **‘Five Things you should Know about Slope Stability’**. Dr PK Rajmeny, Advisor to Itasca, ABGM (South Africa), presented paper on ‘Successful Remediation of a Destabilized Pit Slope & Keeping it Productive for Another 4 Years.

A paper entitled ‘Case Study : Strategic Recovery & Management of Coal Face after Major Dump Deformation at Khadia (NCL)’ authored by S/Shri P K Sinha, M K Prasad, Suman Saurabh and Manish Kumar. The paper was presented by Shri M K Prasad, General Manager, Khadia Project, NCL.

The paper on ‘Assessment of Global Slope Stability of Left and Right Banks of Chenab Bridge by 3DEC’ authored by S/Shri Varun, B Damjanac, L Lorig, J Aglawe and R R Mallick was read by Dr J Aglawe, Itasca India Consulting Ltd.

Dr Srikant Annavarapu, Technical Advisor, Itasca India Consulting Pvt Ltd, Nagpur spoke on ‘Development of a Geotechnical Trigger-Action-Response-Plan for Underground Mines’,

Shri J.K. Singh, Chief Scientist of Rock Slope from CSIR-CIMFR, Dhanbad presented a paper entitled ‘Effective & Cost-effective Slope Monitoring Potential through Application

of 3D Terrestrial Laser Scanner in Indian Surface Mines'. The paper was authored by S/Shri J.K. Singh, V.K. Singh, Ajit Kumar, S K Roy and Ritesh Kumar.

RECOMMENDATIONS

- Surface and Underground mines are expected to become more challenging and excavation stability problems may be expected to become more complex in the years to come. It is essential to manage the stability of the excavations to help improve safety and economics of the mines.
- New methods of design, analysis and monitoring should be developed and integrated into the mines design and operations. Available tools and processes, including numerical modelling of geotechnical issues, should be introduced in the mine design process and necessary skills should be developed for maintaining the stability of the excavations.
- Adequate instrumentation should be installed in the mines to help improve the understanding of rock mass response to excavation in rock as well soil. Data from such instrumentation program should be integrated into the mine operations for better scheduling and plan.
- Suitable processes for back analysis of geotechnical responses should be developed and used in the monitoring of excavation stability. Development of Trigger Action Response Plans and live numerical models can assist in improving safety and economics of mining operations.
- Steps should be taken to collect appropriate levels of geotechnical data for understanding the rock response and adopt global best practices in the management of excavation stability.

Training Programme

A Training programme on “**Technologies for Safety Enhancement in Mines**” was jointly organised by MGMI, Headquarters, Kolkata and CSIR- CIMFR, Dhanbad, during **3-8 December 2018** with the objective to address the relevant issues, share the R&D knowledge gained at CSIR-CIMFR, a National Institution and recent advancement globally pertaining to the above mentioned subject areas. 34 Executives from different subsidiaries of CIL, SCCL & TISO and non-coal companies attended the programme.

Dr Amalendu Sinha, said that the training programme has been specially structured to share with the participants about the latest developments in the area of mine safety and requested the participants to freely interact with the speakers. On 4th December 2018, Dr. Pradeep K Singh, Director, CSIR-CIMFR interacted with the participants and apprised them about the major projects being undertaken at CSIR-CIMFR. The participants then visited the factories of M/s Nanda Millar Co. Ltd. and M/s Mine Line

Pvt. Ltd. The working of mine safety related instruments being manufactured, were demonstrated to the participants.

On 5th December 2018 the participants visited the CBM site of ESSAR at Durgapur and to see the exploration site. Subsequently, the team visited CSIR-CMERI, Durgapur and interacted with Prof Harish Hirani, Director, CSIR-CMERI.

The further course was held at CSIR-CIMFR, Dhanbad from 6th to 8th December 2018. In total 14 lectures were delivered by the experts dealing on different aspects of mine safety.

60TH HOLLAND MEMORIAL LECTURE

The **60th Holland Memorial Lecture** was due to be delivered on 29th September 2018 at 4 PM by Dr Kirit Shantilal Parikh, Chairman, Integrated Research and Action for Development (IRADe). The topic of the lecture was '**Future of Coal in Power Generation**'. Unfortunately, Dr Parikh fell sick a day earlier and had been hospitalized. He has sent his lecture material earlier and this was distributed to the members present at the Biswa Bangla Convention Centre and uploaded in MGMI site also for the benefit of all. However, in his lecture he highlighted that Coal faces severe challenges from environmental considerations. Local air pollution, emissions of CO₂ and even land degradation due to mining, all call for reduced use of coal. Major use of coal in India is for power plants. Dramatic reduction in cost of solar power and battery technology, expected by many, might make coal power generation economically less attractive.

MGMI PRESIDENT'S CUP GOLF TOURNAMENT - 2019

MGMI President's Cup Golf Tournament was held on **17th February, 2019** at MCL Golf Club, Sambalpur 768 018.

Shri RR Mishra, CMD, MCL and his team made excellent arrangement for visiting Golfers. MCL Golf Club Course has its own character and course is challenging. 33 golfers participated. 19 were from MCL, rests were outsiders.

Dr RN Sharma, a young Golfer of 95 years graced the occasion with his presence. He played 18 holes without the Golf cart. It is desirable that he will complete his century on the Golf course & every member of MGMI Golf community will be a part of this great event. Next year will be his 30th year of participation in this tournament.

Winner of the Tournament was Shri S Sharma- Champion, 2nd Best Runners Up - Shri Vikash Jain. Best Gross - Shri J Kumar, Best Stableford Score - Shri Anil Singh, Best Outstation Player- Shri OP Killa, Best Net for Senior Golfer- Shri RN Sharma, Best Net for Senior Golfer (9-Hole)- Shri JP Goenka, Nearest to the Pin- Shri Deepak Kumar, Longest Drive - Shri TK Banerjee, MGMI 2019 Appreciation Award –S/Shri S Trehan, KP Kapai, SK Lal, CK Mohanty, Rookie of the year Award – S/Shri Pappu Kumar Singh, Bhagat, RKP Reddy.

CHAPTER ACTIVITIES

BHUBANESWAR CHAPTER

MGMI Bhubaneswar Chapter convened Council Meetings on 01.04.2018, 22.02.2019 and 25.03.2019. Two technical papers were presented by (1) Shri GS Khuntia on **Raw Materials for Iron and Steel Industries of India** and (2) Dr. K. Biswal, HOD, Mineral Processing Department, IIMT (B) on **Iron Ore Mineral Beneficiation or Steel making in India**.

The following papers were read in the **Special Paper Reading**:

- a) By Shri JP Panda – India can meet Total Coking Coal requirement by Jharia Coal Basin approach.
- b) By Dr S K Biswal HOD, Mineral Processing Dept, IMMT (B) Maximise the Recovery of Iron Values from Lean and Low Grade Iron Ore Resources.

MGMI Bhubaneswar Chapter involved as collaborator in an “All India Seminar organized by The Institution of Engineers (India) on “New Steel Policy of Govt of India 2030, Status of Steel making & Raw materials Resource Development, Constraints of Mining Engineering Division of IEI, OSC, Bhubaneswar” which was organized on 26.10.2018 & 10.11.2018 with a fairly good success.

- a) Shri G S Khuntia, presented a paper on Developing Mechanized/Semi mechanized Mines by outsourcing through – Mine Development operator concept on long term period say 20-25 years.
- b) Shri Nitin Patankar from Pune presented a paper on Rentar Fuel Catalyst for Fuel Efficiency by HEMs in Opencast Mines.

CALCUTTA CHAPTER

MGMI Calcutta Chapter, known for its unique elders watching their junior family members activities, apart from time to time organizing enjoying heartily. The game of Housie was a key workshops / seminars, lecture sessions on topical techno-scientific issues, makes conscious efforts to promote interaction acquaintances and their families remained amongst its members and families. This year, the regular annual event of the branch, 27th Annual Get-together of families of the members was held on 20 January 2019. It was arranged at Green Valley Resort, Dingelpota, Sonarpur, 24 Paraganas (S), West Bengal.

There were sports items for all age groups. For children, the items for different age groups, were, short Races, Roll the ball in the Basket and Hit the target. For ladies, it was passing the ball and, for men, Hit the wicket. Most participants took part in the items joyfully, the elders watching their junior family members enjoying heartily. The

game of Housie was a key attraction where almost everyone took part. Friends, colleagues, alma maters, professional acquaintances and their families remained engrossed the whole day in 'Jamati adda' (chatting).

Prominent MGMI members who took part in the get-together were – S/Shri L.K. Bose, Founder member of the branch, Prof.S.P.Banerjee, Prasanta Roy, Immediate Past Secretary, MGMI, , S.K. Chowdhury, Former Controller General, IBM, , Prof.N.C.Dey, Prof. S. Mukherjee, Surya Kr. Gangopadhyay, S.R. Panja and Bijan Saha. Calcutta Chapter expresses sincere thanks to all the participating members for making the event a grand success.

Calcutta Chapter of MGMI collaborated with the Geological Survey of India Retired Scientific Officers' Welfare Association (GSIRSOWA) and Indian Museum, Kolkata organized a workshop on 'State of the Art Geophysics for Exploration of Mineral, Energy and Groundwater Resources' on March 26 – 27, 2019 at GSI campus, Kyd Street, Kolkata - 700016.

Delegates from GSI, CMPDI, ONGC, MECL NMDC, CGWB, HCL and private companies participated in the workshop. Faculties interacting with the delegates were from organizations/institutions and academia like GSI, ONGC, IIT Kharagpur, IIT (ISM), Dhanbad, Jadavpur University, OIL and Vedanta Limited. There were 5 technical sessions where 16 lectures were presented by faculties followed by interactions. The workshop highlighted the recent trends in Geophysical exploration. The workshop concluded with a session on Panel discussions, where delegates and faculties took active part.

A Workshop on 'Role of Geotechnical Investigation in Foundation Engineering & Mining' was also organized by MGMI Calcutta Chapter in association with Geological Survey of India (GSI) and National Institute of Rock Mechanics (NIRM) during May 24-25, 2018 at Bhubigyan Bhawan, GSI, Salt Lake, Kolkata.

The workshop was inaugurated by Shri N. Kutumba Rao, Director General, GSI in the august presence of Prof. Nitin Som, Former Head of Civil Engineering, Jadavpur University and an eminent expert on Foundation Engineering.

Outcome of the workshop / Recommendations

The workshop dealt with various aspects of Geotechnical Investigations with its main facets being soil and rock mechanics for foundation engineering. Faculties from reputed Institutes and Industries had joined the workshop who gave a thorough idea of dealing with Geotechnical investigations to safe guard foundation of various types of structures. A continuous interaction with the delegates who represent various industries and institutions followed by laboratory demonstration made the workshop very meaningful. The delegates were also taken to ongoing site of Kolkata East-West Metro tunnel which added special dimension to the workshop.

The 10th Annual General Meeting of MGMI Calcutta Chapter was held on 23.08.2018 at 14.00 hrs at MGMI Bldg GN 38/4, Sector-V, Salt Lake, Kolkata. The meeting was presided over by Dr. Ajoy Kr. Moitra, Chairman with Shri Bhaskar Chakraborti, Hony. Secretary.

DELHI CHAPTER

MGMI Delhi Chapter has organized a Paper meeting on Technical subject. A Technical Presentation was made by Dr OP Mishra at the JCO Club, Defence Colony, New Delhi on Saturday, 16th March, 2019. Dr O P Mishra made a very comprehensive but very interesting presentation on the topic "Seismic Tomography and Efficient Tool for diverse Geo-scientific Studies".

SINGRAULI CHAPTER

MGMI Singrauli Chapter convened a General Body meeting on December 13, 2018 where in the General Body constituted a Governing Body of the Singrauli Chapter with Shri P K Sinha, CMD, NCL as Chairman, Shri M K Prasad, GM, NCL, Shri Suman Saurabh, CM (M), and Shri Manish Kumar, Sr. Manager(M), NCL, as Hony. Joint Secretaries, Shri Bhartendu Kumar, CM(X), Hony Treasurer, Shri R B Sindhur, Sr Manager (M), as member, Shri A K Nath CM(C), Shri A N Malviya, Sr Manager(M), and Shri Binod Kumar, Sr Manager(M).

PUBLICATIONS

Transactions

MGMI Transactions, Vol 115 (April 2018-March 2019) was printed before AGM and distributed to all members.

News Journal

Four issues viz. Vol. 44 No 1 (April – June 2018), Vol. 44 No 2 (July – September 2018), Vol. 44 No 3 (October – December 2018), Vol. 44 No 4 (January – March 2019) were printed off and distributed to Members.

LIBRARY

During the year about 125 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 shelve. Exchange relations during the year were reviewed.

FINANCIAL POSITION

The Audited Statement of Account for the year 2018 - 19 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 April in each year of the commencing year.

MEMBERSHIP

During the year under report, 28 new members have been enrolled in different categories, which is 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.

Rajiw Lochan

Honorary Secretary

For and on behalf of the Council, MGMI

In Memoriam

MGMI deeply mourns the sad demise of the following members :

- **BIRENDRANATH MUKHERJEE** -1149- LM ;1958-59
- **SRIKUMAR MITRA** -7455 - LM; 1996-97
- **VASANT RAO KOTRE** -1444 - LM; 1961-62
- **AMAL KUMAR MITRA** -2397 –LM; 1972-73
- **SANAT KUMAR BASU** -6996 - LM; 1996-97
- **JAYANT DATTA** -2788 - LM; 1976-77
- **DR BUDDHESWAR DAS** -2447- LM; 1973-74
- **B J RAO** -6631- LM; 1994-95
- **PROF AJOY KR GHOSE** -1472 –LM; 1987-88

MAY THEIR SOUL REST IN PEACE

**AUDITED BALANCE SHEET
WITH
INCOME & EXPENDITURE ACCOUNTS
2018 – 2019**

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INDEPENDENT AUDITOR'S REPORT

To
The Members of
The Mining, Geological & Metallurgical Institute of India

Report on the Standalone Financial Statements

Opinion

I 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, 2019, the Statement of Income & expenditure.

In my opinion and to the best of my information and according to the explanations given to me, 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, 2019, and Deficit for the year ended on that date.

Basis for Opinion

I conducted my audit in accordance with the Standards on Auditing (SAs) specified under section 143(10) of the Companies Act, 2013. My responsibilities under those Standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of my Report. I am independent of the Company in accordance with the Code of Ethics issued by the Institute of Chartered Accountants of India together with the ethical requirements that are relevant to my audit of the financial statements under the provisions of the Companies Act, 2013 and the Rules thereunder, and I have fulfilled my other ethical responsibilities in accordance with these requirements and the Code of Ethics. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

Responsibility of Management for the Standalone Financial Statements

The Company's Board of Directors is responsible for the matters stated in section 134(5) of the Companies Act, 2013 ("the Act") with respect to the preparation of these standalone financial statements that give a true and fair view of the financial position, financial performance, (changes in equity) and cash flows of the Company in accordance with the accounting principles generally accepted in India, including the accounting Standards specified under section 133 of the Act. This responsibility also includes of the maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding of the assets of the Company and for preventing and detecting frauds and other irregularities; selection and application of appropriate implementation and maintenance of accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statement that give a true and fair view and are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

The Board of Directors are also responsible for overseeing the company's financial reporting process.

Auditor's responsibility for the Audit of the Financial Statements

My objective is to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an Auditor's Report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatements when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

Report on Other Legal and Regulatory Requirements

The Companies (Auditor's Report) Order, 2016 ("the Order"), issued by Central Government of India in terms of sub-section (11) of section 143 of the Companies Act, 2013, is not applicable.

As required by Section 143(3) of the Act. I report that:

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

In my 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.

- a. 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.
- b. On the basis of the written representations received from the directors as on 31st March, 2019 taken on record by the Board of Directors, none of the directors is disqualified as on 31st March 2019 from being appointed as a director in terms of Section 164 (2) of the Act.
- c. 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".
- d. 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:
 - i) There is no pending litigation
 - ii) The Company has no long term contracts.
 - iii) There has been no delay in transferring amounts, required to be transferred, to the Investor Education and Protection Fund by the Company.



Sudhip Kumar Sen, FCA, DISA
Chartered Accountant

M. No. 052858

Place : Kolkata

Date : 27.07.2019



Report on the Internal Financial Controls under Clause (i) of Sub-section 3 of section 143 of the Companies Act, 2013 (“the Act”)

I have audited the internal financial controls over financial reporting of The Mining, Geological & Metallurgical Institute of India as on 31-03-2019 in conjunction with my audit of the standalone financial statements of the Company for the year ended on that date.

Management’s Responsibility for Internal financial Controls

The Company’s Management is responsible for establishing and maintaining internal financial controls. These responsibilities include the design, implementation and maintenance of adequate internal financial controls that were operating effectively for ensuring the orderly and efficient conduct of its business, including adherence to company’s policies, the safeguarding of its assets the prevention and detection of frauds and errors the accuracy and completeness of the accounting records, and the timely preparation of reliable financial information as required under the Companies Act, 2013.

Auditor’s Responsibility

My responsibility is to express an opinion on the Company’s internal financial controls over financial reporting based on my audit. I conducted our audit in accordance with the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting (the “Guidance Note”) and the standards on Auditing issued by ICAI and deemed to be prescribed under section 143(10) of the Companies Act, 2013, to the extent applicable to an audit of internal financial controls, both applicable to an audit of Internal Financial Controls and, both issued by the Institute of Chartered Accountants of India. Those Standards and the Guidance 168 Note require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether adequate internal financial controls over financial reporting was established and maintained and if such controls operated effectively in all material respects. My audit involves performing procedures to obtain audit evidence about the adequacy of the internal financial controls system over financial reporting and their operating effectiveness. Our audit of internal financial controls over financial reporting included obtaining an understanding of internal financial controls over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. The procedures selected depend on the auditor’s judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. I believe that the audit evidence I have obtained

is sufficient and appropriate to provide a basis for our audit opinion on the Company's internal financial controls system over financial reporting.

A company's internal financial control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purpose in accordance with generally accepted accounting principles. A company's internal financial control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transaction are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorisations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorised acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Inherent Limitations of Internal Financial Controls Over Financial Reporting

Because of the inherent limitations of internal financial controls over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may occur and not be detected. Also, projections of any evaluation of the internal financial controls over financial reporting to future periods are subjects to the risk that the internal financial control over financial reporting may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Opinion

In my opinion, the Company has, in all material respects, and adequate internal financial controls system over financial reporting and such internal financial controls over financial reporting were operating effectively as at 31-03-2019.



Sudhip Kumar Sen, FCA, DISA
Chartered Accountant

M. No. 052858

Place : Kolkata

Date : 27.07.2019



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.)
CAPITAL ACCOUNT			
2,417,770.00	Balance as per last A/c	2,434,970.00	
	Add: Admission Fees from Members		
	@300		
	@200		
17,200.00	@400 x 31	<u>12,400.00</u>	2,447,370.00
RESERVE FUND			
5858087.65	Balance as per last A/c	6,108,537.65	
250,450.00	Added During the year	<u>197,960.00</u>	6,306,497.65
	(LM Subscription)		
MGMI AWARD FUND			
1,432,910.97	Balance as per Schedule Annexed		1,424,228.97
STAFF RETIREMENT BENEFIT FUND			
473,906.79	Balance as per last A/c	498,983.79	
25,000.00	Added Contribution from MGMI	25,000.00	
77.00	Add. Interest on FD	3,555.00	
	FD Matured	<u>182,376.00</u>	709,914.79
PROVIDENT FUND			
668,142.69	Balance as per last A/c	766,903.69	
94,918.00	Add Contribution Subscription	86,136.00	
3,843.00	Add Interest on FD	7,440.00	
	TDS of Provident Fund	<u>722,100.00</u>	867,700.69
BUILDING FUND			
9,632,332.18	Balance as per last A/c		9,632,332.18
<u>2,08,74,638.28</u>			<u>21,388,044.28</u>

INSTITUTE OF INDIA

Section 25 of the Indian Companies Act, 1883)

Companies Act, 1956)

31ST MARCH, 2019

Previous Year	A S S E T S	AMOUNT (Rs.)	AMOUNT (Rs.)
	FURNITURE & FIXTURE		
22,307.16	Balance as per last A/c	20,076.36	
	Add : During the year		
2,230.80	Less : Depreciation	2,007.70	18,068.66
	FURNITURE		
43,629.08	Balance as per last A/c	39,266.18	
	Add : During the year		
4,362.90	Less : Depreciation	3,926.70	35,339.48
	FURNITURE FITTINGS & ELECTRICAL EQUIPMENT		
205,445.68	Balance as per last A/c	184,901.08	
20,544.60	Less : Depreciation	18,490.10	166,410.98
	XEROX MACHINE		
49,610.05	Balance as per last A/c	44,649.05	
4,961.00	Less : Depreciation	4,464.90	40,184.15
	AIR-CONDITIONING EQUIPMENT		
165,354.60	Balance as per last A/c	148,819.10	
	Add : During the year		
16,535.50	Less : Depreciation	14,882.00	133,937.10
	BY-CYCLE		
86.45	Balance as per last A/c	77.75	
8.70	Less : Depreciation	7.80	69.95
	COMPUTER (RCP FUND)		
18,213.86	Balance as per last A/c	7,285.46	
	Add : During the year		
10,928.40	Less : Depreciation	4,371.30	2,914.16
	LEASE HOLD LAND FOR BUILDING		
125,149.20	Balance as per last A/c		125,149.20
	MGMI LIFT		
	During the Year		256,000.00
570,224.18			778,073.68

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.)
20,874,638.28	B/F		21,388,044.28
	SCIENTIFIC RESEARCH ACTIVITIES PROJECT FUND		
4,767,657.31	Balance as per last A/c	5,444,380.40	
100,000.00	IMICA SEMINAR 2015		
521,565.00	Interest on FD	482,151.00	
232,782.30	7th AMC 2017	1,100,000.00	
	MES Seminar 2018	1,398,000.00	
	Short Term Course	64,800.00	
1,635,930.00	Fixed Deposit Matured		
	Goods Service Tax	72,000.00	
7,257,934.61		8,561,331.40	
	Less : Expenditure during the year		
62,000.00	Honorarium To Staff (IMICA)		
183,735.00	Library Expenses	197,779.00	
	MES Seminar 2018	1,294,727.00	
140,463.00	Printing of Publication	137,560.00	
312,958.90	RCP Staff Salary	400,856.00	
649.00	Bank charges	1,152.85	
2,000,000.00	F.D With SBI, (Salt Lake)		
24,719.00	Postage & Telegram	125,267.30	
29,500.00	Communication Expenses		
1,494.00	Telephone Charges	1,341.00	
108,872.00	Meeting Expenses	128,577.00	
	Short Term Course	288,256.00	
	MGMI LIFT	700,000.00	
	Servicing and Repairing	78,125.00	
2,864,390.90		3,353,641.15	5,207,690.25
	SUBSCRIPTION ADVANCE :		
500.00	Balance as per last A/c		2,100.00
	CENTENARY CELEBRATION ACCOUNT		
1,282,347.00	Balance as per last A/c		1,282,347.00
	LOAN FROM RCP ACCOUNT		
	Balance as per last A/c		
	LOAN FROM RCP A/C		
536,220.00	Balance as per last A/c		536,220.00
27,087,248.99			28,416,401.53

INSTITUTE OF INDIA

Section 25 of the Indian Companies Act, 1883)

Companies Act, 1956)

31ST MARCH, 2019

Previous Year	A S S E T S	AMOUNT (Rs.)	AMOUNT (Rs.)
570,224.18	B/F		778,073.68
	BUILDING AT SALT LAKE		
3,253,807.40	Balance as per last A/c	3,091,117.00	
162,690.40	Less : Depreciation	<u>154,556.00</u>	2,936,561.00
	Add : During the year		
	SECURITY DEPOSIT FOR BUILDING		
25,165.00	Balance as per last A/c		25,165.00
	STAFF RETIREMENT BENEFIT FUND INVESTMENT		
515,493.00	On FD A/c.	540,493.00	
1,681.79	On SB A/c.	<u>187,612.79</u>	728,105.79
	BUILDING FUND INVESTMENT		
189,205.83	On SB A/c.		189,205.83
	FIXED DEPOSIT		
9,529,794.00	Balance as per last A/c	12,529,794.00	
3,000,000.00	Add : During the year	<u>2,500,000.00</u>	15,029,794.00
	Add Accrued interest		
	PROVIDENT FUND INVESTMENT		
591,560.00	On FD A/c.	631,402.00	
175,344.19	On SB A/c.	<u>229,078.19</u>	860,480.19
	SECURITY DEPOSIT FOR ELECTRICITY		
14,400.00	Balance as per last A/c		14,400.00
	CURRENT ASSETS LOANS & ADVANCE		
	(On secured considered goods)		
	Advance Receivable in cash or in kind		
100,830.00	or value to be received.)		90,830.00
	TUBEWELL		
113,995.00	Balance as per last A/c		113,995.00
	TAX DEDUCTED AT SOURCE		
118,070.00	Income Tax	363,141.75	
654,713.75	TDS ON OTHERS	354,156.00	
169,778.00	TDS ON FD	118,520.00	
1,880.59	Sales Tax	1,880.59	
579,420.00	Less TDS Refund	<u>429,840.00</u>	407,858.34
	MGMI AWARD FUND INVESTMENT		
	Fixed Deposit with		
1,410,842.00	(SBI, Salt Lake)	1,409,390.00	
39,772.11	SB A/c. with SBI	<u>32,542.11</u>	1,441,932.11
19,734,446.44			22,616,400.94
	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.)
27,087,248.99	B/F		28,416,401.53
	LIABILITIES FOR EXPENSES		
36,000.00	Loan from RCP Petty Cash	36,000.00	
29,840.00	Add during the year	29,840.00	
65,840.00		65,840.00	
8,000.00	Less Recover by MGMI	8,000.00	57,840.00
300,000.00	Security Deposit as per last A/c.	300,000.00	
	Add during the year	300,000.00	600,000.00
	Received from RCP A/C.		
597,579.00	As per last A/c.		597,579.00
	Payable for TDS Deposit		
5,000.00	As per last A/c.		5,000.00
	Amount Receivable from 3rd & 7th AMC	760,600.00	
760,600.00	on A/c of reimbursement of expenses	2,750,000.00	3,510,600.00
	Goods Service Tax		171,480.00

28,808,267.99

33,358,900.53

Date : 27.07.2019

Place : Kolkata



Hony. Secretary
MGMI



Hony. Jt. Secretary
MGMI

INSTITUTE OF INDIA


Section 25 of the Indian Companies Act, 1883)

Companies Act, 1956)

31ST MARCH, 2019

Previous Year	A S S E T S	AMOUNT (Rs.)	AMOUNT (Rs.)
19,734,446.44	B/F		22,616,400.94
	EXCESS OF EXPENDITURE OVER INCOME		
291,410.08	Balance as per last Account	858,465.90	
567,055.82	Less profit during the year	1,055,263.78	1,913,729.68
19,425.00	Fax Machine (RCP Fund) during the year		19,425.00
	SCIENTIFIC RESEARCH ACTIVITIES INVESTMENT		
4,485,775.00	FD with SBI Salt Lake	4,563,284.00	
66,123.90	C.D.A/c. with SBI"	791,448.74	
17,468.07	Petty Cash	28,780.77	5,383,513.51
	ADMINISTRATIVE OVERHEAD CHARGES		
583,831.00	Receivable from RCP & CC	583,831.00	
113,293.00	Amount Receivable from TAFCON	113,293.00	697,124.00
	RECEIVABLE FROM RCP A/C.		
867,240.00	Balance as per last A/c.		867,240.00
	MOBILE PHONE (MGMI)		
4,090.00	During the year		4,090.00
	TRANSIT HOUSE OF MGMI		
114,350.00	Freeze & T.V.	114,350.00	
77,845.00	Generator	77,845.00	
110,286.00	Misc. Assests	110,286.00	
50,840.00	Kitchen Materials	50,840.00	
72,340.00	Bedding Materials	72,340.00	
11,580.00	Washing Machine	11,580.00	437,241.00
	Purchase of Projector		
36,640.00	During the year		36,640.00
	MGMI Sound System		
204,010.00	During the year		204,010.00
	CASH & BANK BALANCE		
483,413.97	SBI, Salt Lake C.D A/c.	402,407.19	
30,510.00	SBI, Park St. C.D. A/c.	30,510.00	
3,589.71	Cash with Hony. Secy.	13,509.21	
185,110.00	SBI Consultancy A/c.	185,110.00	
129,645.00	President's Golf A/c.		631,536.40
547,950.00	"Receivable from PF & Staff		
	"Retirement Fund during the year "		547,950.00
28,808,267.99			33,358,900.53

signed in terms of our report attached


President
MGMI




Sudhip Kumar Sen
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.)
885,561.00	To Establishment		786,648.00
88,683.00	" Printing & Stationery		156,373.00
33,654.55	" General Charges		58,830.80
115,916.50	" Postage & Telegram		70,442.50
67,369.00	" Bonus to Staff		78,370.00
84,410.00	" Meeting Expenses		447,186.00
249,151.00	" Servicing & Repairing		377,489.00
47,459.00	" Contribution to P. F A/c		43,068.00
25,000.00	" Contribution to Staff Retirement Fund		25,000.00
64,370.00	" Staff Welfare		56,614.00
8,000.00	" A u d i t F e e s		18,750.00
218,731.00	" Electricity Charges		392,333.00
194,150.00	" Travelling & Conveyance		508,509.00
282,807.00	" Security Service Charges		255,684.00
33,480.00	" Telephone Charges		22,644.00
	" Municipal Tax		193,080.00
4,693.00	" Filling Fees		42,394.00
53,582.87	" Professional Fees		61,917.00
	" Golf Tournament		302,878.00
77,848.75	" Communication Expenses		50,976.00
63,647.60	" Water Tax (Nabadiganta)		72,938.63
231,268.00	" Printing of Publication		188,584.00
67,968.00	Council Election Expenses		52,222.00
478,563.00	Transit House Expenses		495,270.00
7,695.00	Gardening Expenses		6,275.00
5,000.00	MGMI Anthem		
22,100.00	Puja Boksish		14,000.00
119,342.00	Goods Service Tax (GST)		196,973.00
2,350,000.00	7th Asian Mining Congress'17		
	Honorarium to Staff		66,000.00
	MES'18 Seminar		67,200.00
	Short Term Course		300,289.00
	8th AMC		689,896.00
	Medals Cost		23,600.00
	Library Expenses		974.00
	Medical Spl. Grant to Staffs		90,000.00
5,880,450.27			6,213,407.93

INSTITUTE OF INDIA

Section 25 of the Indian Companies Act, 1883)

Companies Act, 1956)

FOR THE YEAR ENDED 31ST MARCH, 2019

Previous Year	INCOME	AMOUNT (Rs.)	AMOUNT (Rs.)
	By Subscription from Members		
2,700.00	@300		
1,400.00	@200 x 4	800.00	
20,500.00	@500 x 35	17500.00	
	@1500 x 4		
5,000.00	@5000x1	4100.00	
40,000.00	@20000x1	20000.00	
150,000.00	@50000 x5	250000.00	
500,000.00	@100000 x 7	682000.00	
	@400 x 18		
50.00	@50 x 1	50.00	
	Donner Subscriber	187038.00	1,161,438.00
2,900.00	" Advance Subscription		500.00
2,460.00	" Insignia & Membership Certificate Fees		1,920.00
12,506.00	" Sale of publication		7,157.80
92,994.10	" Advertisement		122,894.10
951,282.00	" Interest on F.D.		907,473.00
89,834.65	" Dividend on Units		61,359.65
203,609.00	" Transit House Income		151,890.00
1,308,000.00	" Licence Fee		666,000.00
69,140.00	Re-imbursement of Electricity charges		
910,821.00	6th Asian Mining Congress		
493,900.00	TDS		262,702.10
51,360.00	Accrued Interest on FD		
627,200.00	7th Asian Mining Congress'18		1,000,000.00
	Golf Tournament		100,000.00
	MES'18 Seminar		5,000.00
	Short Term Course		753,000.00
	Goods Service Tax		159,516.00
567,055.82	Excess of Expenditure over Income		
5,535,656.75			5,360,850.65

C/O

(Contd.)

THE MINING, GEOLOGICAL & METALLURGICAL

(Incorporated as a Company under

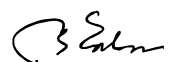
(Section 25 of the Indian

INCOME AND EXPENDITURE ACCOUNT

Previous Year	EXPENDITURE	AMOUNT (Rs.)	AMOUNT (Rs.)
5,880,450.27	B/F		6,213,407.93
	"Depreciation		
2,230.80	"Furniture & Fixture	2,007.70	
4,362.90	"Furniture	3,926.70	
20,544.60	"Furniture fittings & Elec. Equipment	18,490.10	
4,961.00	"Xerox Machine	4,464.90	
16,535.50	"Air Conditioning Equipment	14,882.00	
8.70	"Bicycle	7.80	
10,928.40	"Computer	4,371.30	
162,690.40	"Building	154,556.00	202,706.50
6,102,712.57			6,416,114.43
	Excess of Expenditure Over Income		
291,410.08	As per last Account	858,465.90	
567,055.82	Add during the year	1,055,263.78	1,913,729.68
858,465.90			1,913,729.68

Date : 27.07.2019

Place : Kolkata



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, 2019

Previous Year	INCOME	AMOUNT (Rs.)	AMOUNT (Rs.)
5,535,656.75	B/F		5,360,850.65
	Excess of Expenditure Over Income		1,055,263.78
6,102,712.57			6,416,114.43
858,465.90	Excess of Expenditure Over Income transfer to Balance sheet		1,913,729.68
858,465.90			1,913,729.68

Signed in terms of our report signature with seal



President
MGMI




Sudhip Kumar Sen
Chartered Accountant

THE MINING, GEOLOGICAL & METALLURGICAL

(Incorporated as a Company under

(Section 25 of the Indian

RECEIPTS & PAYMENTS OF THE 7TH ASIAN

RECEIPTS	AMOUNT (Rs.)
To Opening Balance	3073922.20
" Sponsorship Fee	3500000.00
" Delegate Fee	119224.00
" Presentation Fee	500000.00

7,193,146.20

Date : 27.07.2019

Place : Kolkata

INSTITUTE OF INDIA

Section 25 of the Indian Companies Act, 1883)

(Section 25 of the Indian

MINING CONGRESS AS ON 31ST MARCH 2019

PAYMENTS	AMOUNT (Rs.)
By TDS Receivable	360000.00
" RCP A/C TRF	1121000.00
" Travelling & Conveyance	7404.95
" Fixed Deposit	1500000.00
" Salary	100000.00
" Communication Expenses	14401.90
" Making of MGMI Lift	900000.00
" Honorarium to Staff	300000.00
" Miscellenious Expenses	10000.00
" MGMI A/c.	2750000.00
" Bank Charges	1089.00
" Cash at Bank	129250.35

7,193,146.20



Sudhip Kumar Sen
Sudhip Kumar Sen
 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	105,865.78
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	132,416.42
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	100,000.00
28	Prof. S. K. Bose Memorial Award Fund	50,000.00
29	Prof.Dr. Mahendra Pratap Singh Memorial Coal Science Award	500,000.00
		<u>1,405,676.97</u>
	Less : Expenses incurred	
	As per last A/c.	557,693.37
	Add : During the year	<u>20,000.00</u>
	Including administrative Overhead Rs.	827,983.60
	Add : Interest on F.D. & SB Account	
	As per last A/c.	584,927.37
	Add : During the year	<u>11,318.00</u>
		<u>1,424,228.97</u>

Date : 27.07.2019

Place : Kolkata

MGMI CHAPTERS

