

47th Annual Report & Accounts

2021-22



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

(A SUBSIDIARY OF COAL INDIA LIMITED)

A Mini Ratna Company (Cat-I)

AN ISO 9001:2015 CERTIFIED

GONDWANA PLACE, KANKE ROAD

RANCHI - 834 031

CIN : U14292 JH1975 GOI 001223

Website: www.cmpdi.co.in

Vision

To be the global market leader in an expanding Earth resource sector and allied professional activities.

Mission

To provide total consultancy in coal and mineral exploration, mining, engineering and allied fields as the premier consultant in India and also in the international arena.

Management Policy of CMPDIL

With a mission of exploration of coal and other mineral resources and providing consultancy in mine planning, design, associated engineering and management systems, CMPDIL, as a premier consultant, strives to be the market leader in the expanding earth resource sector and other professional activities.

We are committed to:

- 1. Continually improve the quality of our consultancy and other support services with due consideration of the environment, information security and energy performance;*
- 2. Protect the environment by minimizing the adverse impact of our activities on it by consistently reducing, reusing and recycling a part of the waste generated;*
- 3. Provide the resources for achieving the objectives and targets of the quality, environment, energy and information security management systems;*
- 4. Protect our information assets from threats and interruptions to maintain business continuity and continually improve information security performance;*
- 5. Comply with the legal and all other applicable requirements.*

GENERAL NOTE FOR SHAREHOLDERS OF COAL INDIA LIMITED

The Annual Accounts of CMPDIL would be kept for inspection and also would be available at the Headquarter for providing information to any Shareholder of Coal India Limited on demand.

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BOARD OF DIRECTORS AS ON 31.03.2022

CHAIRMAN-CUM-MANAGING DIRECTOR



Shri Manoj Kumar

FUNCTIONAL DIRECTORS



Shri R.N. Jha



Shri S.K. Gomasta

OFFICIAL PART-TIME DIRECTORS



Shri Mukesh Choudhary



Shri B. Veera Reddy

INDEPENDENT DIRECTORS



Dr. K. C. Pandey



Smt. Alka Panda



Shri P. S. Chauhan

PERMANENT INVITEE



Shri Ajitesh Kumar

COMPANY SECRETARY



Shri Abhishek Mundhra

MANAGEMENT DURING 2021-2022

FUNCTIONAL DIRECTORS

Shri Manoj Kumar	:	Chairman-cum-Managing Director [From 04.10.2021 (A/N)]
Shri Binay Dayal	:	Chairman-cum-Managing Director (Addl.Charge) [From 19.07.2021 to 04.10.2021 (F/N)]
Shri Manoj Kumar, CMD, WCL	:	Chairman-cum-Managing Director (Addl.Charge) (From 01.05.2021 to 19.07.2021)
Shri Shekhar Saran	:	Chairman-cum-Managing Director (From 01.01.2016 to 30.04.2021)
Shri Rabindra Nath Jha	:	Director (Technical) (From 30.01.2019)
Shri Satendra Kumar Gomasta	:	Director (Technical) (From 25.02.2020)
Shri Anil Kumar Rana	:	Director (Technical) (From 01.08.2019 to 28.02.2022)

OFFICIAL PART-TIME DIRECTORS

Shri B. Veera Reddy	:	Director (Technical), Coal India Ltd., (From 24.02.2022)
Shri Mukesh Choudhary	:	Director (CLD), Ministry of Coal, (From 26.05.2020)
Shri Binay Dayal	:	Director (Technical), Coal India Ltd., From (09.11.2017 to 18.07.2021) & (04.10.2021 to 31.01.2022)

NON OFFICIAL PART-TIME DIRECTORS

Dr. Krishna Chandra Pandey	:	Independent Director (From 10.07.2019)
Smt. Alka Panda	:	Independent Director (From 10.07.2019)
Shri Pramod Singh Chauhan	:	Independent Director (From 16.10.2019)

PERMANENT INVITEE

Shri Ajitesh Kumar	:	Director, Ministry of Coal, New Delhi (From 13.01.2020)
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COMPANY SECRETARY

Shri Abhishek Mundhra	:	Manager (F) / Company Secretary (From 18.02.2016)
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MEMBERS OF THE BOARD AS ON 21.07.2022

FUNCTIONAL DIRECTORS

Shri Manoj Kumar	:	Chairman-cum-Managing Director
Shri Rabindra Nath Jha	:	Director (Technical)
Shri Satendra Kumar Gomasta	:	Director (Technical)

OFFICIAL PART-TIME DIRECTORS

Shri B. Veera Reddy	:	Director (Technical), Coal India Ltd., Kolkata
Shri Mukesh Choudhary	:	Director (CLD), Ministry of Coal, New Delhi

NON OFFICIAL PART-TIME DIRECTOR

Shri Pramod Singh Chauhan	:	Independent Director
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PERMANENT INVITEE

Shri Ajitesh Kumar	:	Director, Ministry of Coal, New Delhi
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COMPANY SECRETARY

Shri Abhishek Mundhra	:	Manager (Finance) / Company Secretary
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CORPORATE INFORMATION

REGISTERED OFFICE

Central Mine Planning & Design Institute Limited,
Gondwana Place, Kanke Road,
Ranchi - 834 031 (Jharkhand), India
CIN: U14292 JH1975 GOI 001223
Website: www.cmpdi.co.in

BANKERS

State Bank of India,
Canara Bank
Union Bank of India,
Axis Bank Limited
HDFC Bank
Punjab National Bank
Bank of India
UCO Bank
Indian Overseas Bank

AUDITORS

STATUTORY AUDITOR

M/s LODHA PATEL WADHWA & Co., Ranchi

SECRETARIAL AUDITOR

M/s Satish Kumar & Associates, Ranchi

CORPORATE GOVERNANCE AUDITOR

M/s Satish Kumar & Associates, Ranchi

COST AUDITOR

M/s M.M & Associates, Delhi

DEPOSITORY

M/s. National Security Depository Limited

REGISTRAR & SHARE TRANSFER AGENT

M/s. NSDL Database Management Limited

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NOTICE FOR THE 47TH ANNUAL GENERAL MEETING

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited that the **47th Annual General Meeting** of the Company will be held on **Thursday, 21st July, 2022 at 04:00 P.M. at Registered Office, Ranchi** through Video Conferencing (VC)/ Other Audio Visual Means (OAVM) to transact the following business: -

ORDINARY BUSINESS:

1. To consider and adopt the Audited Balance Sheet as on 31st March 2022, Profit & Loss Account for the Financial Year ended on that date together with the Reports of Statutory Auditor & Comptroller & Auditor General of India and Directors' Report.
2. To confirm payment of Interim Dividend of Rs. 60.59 Crores (Approx.) i.e Rs. 424.30 per share (Dividend per Share) paid on 14,28,000 equity shares of the Company in March 2022 and approve payment of Final Dividend recommended by the Board of Rs. 24.05 Crores i.e. Rs. 168.42 per Share (Dividend per Share) in July 2022 on 14,28,000 equity shares thus totaling to Rs. 84.64 Crores as dividend for the Financial Year 2021-22.
3. To appoint a Director in place of Shri S.K. Gomasta (DIN: 08714820), Whole-time Director who retires by rotation in terms of Section 152(6) of the Companies Act, 2013 and being eligible, offers himself for reappointment.
4. To appoint a Director in place of Shri Mukesh Choudhary (DIN: 07532479), Part-time official Director who retires by rotation in terms of Section 152(6) of the Companies Act, 2013 and being eligible, offers himself for reappointment.

Notes:-

1. In view of the continuing COVID-19 pandemic, the Ministry of Corporate Affairs ("MCA") vide its General Circular No. 2/2022 dated 05th May, 2022 read with General Circular no. 20/2020 dated May 5th, 2020, General Circular nos. 02/2021, 19/2021 and 21/2021 dated January 13, 2021, December 8th, 2021 and December 14th, 2021 respectively in relation to "Clarification on holding of annual general meeting (AGM) through VC or OAVM", (collectively referred to as "MCA Circulars") permitted the holding of the Annual General Meeting ("AGM") through VC/OAVM, without the physical presence of the Members at a common venue. In compliance with the provisions of Companies Act, 2013, MCA Circulars, the AGM of the Company is being held through VC/OAVM. The registered office of the Company shall be deemed to be the venue for the AGM.
2. Since this AGM is being held pursuant to MCA Circulars through VC / OAVM, physical attendance of Members has been dispensed with. Accordingly, the facility for appointment of proxies by the Members will not be available for the AGM and hence the Proxy Form and Attendance Slip are not annexed to this Notice. Members attending the AGM through VC/OAVM shall be counted for the purpose of quorum under Section 103 of the Act.
3. Pursuance of sections 112 and 113 of the Companies Act, 2013 representatives of the members may be appointed for participation and voting through VC or OAVM. For attending meeting through VC or OAVM, link shall be provided from the companies authorized e-mail ID well in advance and the facility for joining the meeting shall be kept open at least 15



minutes before the time scheduled to start the meeting and shall not be closed 15 minutes after such scheduled time.

4. Shareholders, Directors and Auditors including Secretarial Auditor of Central Mine Planning and Design Institute Limited (CMPDIL) are entitled to attend and/or vote at the meeting or may also attend and /or vote at the meeting through video conferencing (VC) or other audio visual means (OAVM) to convey their assent or dissent only at such stage on items considered in the meeting by sending e-mails to cosecretary.cmpdi@coalindia.in.
5. Members are also requested to accord their consent for convening the meeting at a shorter notice as per Section 101(1) of the Companies Act, 2013.

By Order of the Board of Directors
For Central Mine Planning & Design Institute Limited

A handwritten signature in blue ink, appearing to be "Abhishek Mundhra".

(Abhishek Mundhra)
Company Secretary

Date: 18.07.2022

Place: Ranchi

DISTRIBUTION:

All the Shareholders

All the Directors of the company

The Statutory Auditor of the Company

The Secretarial Auditor of the company

The Cost Auditor of the Company

The General Manager (Finance)/CFO



CHAIRMAN'S STATEMENT

Shri Manoj Kumar

Chairman-cum-Managing Director

Dear Shareholders

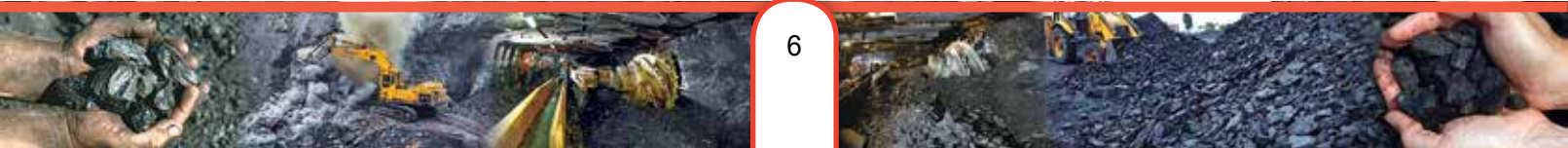
I have great pleasure in extending very warm welcome to all of you to the 47th Annual General Meeting of CMPDIL and present to you the Annual Report of your Company for the Financial year 2021-22. The Report of Directors and the Audited Accounts of your Company for the period ended 31st March, 2022 together with the Report of the Statutory Auditors and the report & review of the Comptroller and Auditor General of India have already been provided to all the shareholders of the Company.

1.0 The growth Profile:

CMPDIL was originally conceived and proposed in 1972 by a joint study group with Polish experts as a comprehensive planning set-up under one roof for entire Indian mining industry. Subsequently, CMPDIL was established on 1st November, 1975.

Your company has been rendering in-house consultancy services to CIL and its subsidiaries in the areas of coal exploration, mine planning & design, environment engineering, coal beneficiation & utilization, allied engineering services, Informational and communication technology, human resource development, remote sensing, field services, etc. Similar services are also being provided to 'Other than CIL' clients. Planning and related services are also being provided to some extent to metal mining sectors. Additionally, CMPDIL also renders services to Ministry of Coal and MoP&NG pertaining to Non-CIL blocks, coal based non-conventional energy resources i.e. CBM/CMM, Shale Gas, etc.

Over the years after formation of CMPDIL, the level of expertise of its planners and engineers was raised through bilateral agreements with foreign institutions of advanced coal mining countries like Giproshakht of erstwhile USSR, KOPEX of Poland and British Mining Consultants of the UK for carrying out joint planning exercises for large opencast and underground projects. In addition to enhancing the level of expertise of CMPDIL personnel, significant build-up of infrastructural facilities was also undertaken by establishing computer and laboratory facilities. All these measures ensured the company a unique position in the mineral and mining sector as a total solution provider under one roof. However, with the changes in the business environment worldwide, such bilateral arrangements lost significance and momentum in 1990s. Erosion of the company's strength in terms





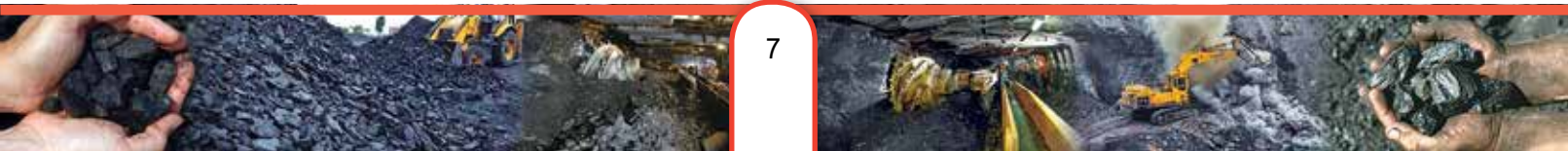
of expert manpower also started taking place in the 90s due to superannuation of individuals, transfer to other CIL subsidiaries and non-induction of young engineers over a considerable period. Moreover, changing business scenario and consequent changes in opportunities in the mining sector within the country and abroad fueled exodus of experts mainly after 2000 which continued for next 5-6 years. However, the company has been highly committed in overall upgradation of its services and facilities to a level par excellence so as to keep pace with the changing scenario of business environment in India as well as abroad. This very assertion is well substantiated by the fact that the company has been actively involved in enhancing the pace of exploration through deploying 2D/3D seismic survey technologies, high productive drill machines as well as for the computerization of the work place to the extent possible along with the use of latest software related to exploration and mining industry apart from addition of equipment particularly related to environmental facilities, characterization of coal as well as introduction of ISO standards.

Capacity of drilling, one of the core activities of CMPDIL, which enables projectisation of coal blocks for future production requirement, was hovering around 2 lakh meter per annum (2.02 lakh meter in 2004-05 to 2.09 lakh meter in 2007-08) and sales was also around ₹150 crore to ₹200 crore (₹151 crore in 2004-05 and ₹196 crore in 2007-08). The contribution in drilling was from departmental resources only. In the beginning of the XI Plan, it was conceived that CMPDIL would need substantial expansion in its role, particularly in the field of exploration, in view of need for faster proving of resources. Accordingly, apart from addition in the departmental drilling capacity, enhancement by way of using the drilling capacities of other agencies including MECL was emphasized and a part of the drilling activities was started being outsourced to private agencies. Parallely, expansion in the coal core testing capability of CMPDIL was also carried out. Moreover, capacities of other laboratories like Environment, CBM, Mining Technology, etc., were also enhanced through upgradation with indigenous and imported equipment.

Subsequently, the administrative ministry i.e. MoC also came up with a scheme for enhancing the exploration capacity of CMPDIL where the total drilling capacity was to be raised to a level of 15 lakh meter by 2015-16 including the departmental drilling capacity of 4 lakh meter. CMPDIL achieved 11.26 lakh meter of drilling in 2016-17 with a growth of 13% over previous year, 13.66 lakh meter of drilling in 2017-18 with a growth of 21% over previous year, achieved 13.60 lakh meter of drilling in 2018-19, 12.94 lakh meter in 2019-20 and 12.48 lakh meter in 2020-21.

During 2021-22, 7.91 lakh meter of drilling was carried out against the MoU target of 7.50 lakh metre. The reduction of drilling target and corresponding achievement during 2021-22 were mainly due to reduction in fund provided by Ministry of Coal, Govt. of India under Central Sector Scheme (CSS) for exploration in Non-CIL and Promotional blocks as well as lesser meterage availability in CIL blocks. However, efforts are being made for drilling through NMET (National Mineral Exploration Trust) funding. During 2021-22, work received from NMET, Ministry of Mines, for the first time. 6 projects have been approved for funding by NMET, which includes 1 non-coal (Bauxite) project. Out of this, work has started in 2 projects.

The necessity to relook on the Business dynamics resulted in the formulation of Strategic Business Plan. CMPDIL, after analysing the potential risks, has formulated Enterprise Risk Management Plan outlining the series of activities and their enablers that we expect an organization to utilize in assessing, identifying, prioritizing, mitigating and monitoring of the organization's risks.



Parallely, with the diversification, the distinctiveness of the company would be kept preserved for the interest of the coal sector as a whole in foreseeable future.

2.0 Financial Performance:

During the financial year 2021-22, your company has achieved turnover of Rs.1208.43 crore, with a Profit Before Tax of Rs. 366.04 crore other comprehensive income of Rs. 26.65 crore. The net worth of your company has risen to Rs. 995.62 crore (including OCI of Rs. 38.62 crore) as on 31.03.2022 from Rs. 784.47 crore (including OCI of Rs. 18.68 crore) as on 31.03.2021. During the Financial Year, the earning per share has gone down to Rs. 1975.63 (computed on 14,28,000 shares) from Rs. 2219.61 (computed on 14,28,000 shares) a year back.

3.0 Drilling and Seismic Survey Performance:

During 2021-22, about 7.91 lakh meter of drilling was carried out against the MoU target of 7.50 lakh meter which includes drilling of about 4.44 lakh metre through departmental drills with productivity of about 580 metre/drill/month and achievement of 106% of MoU target.

About 865 line km of 2D/3D seismic survey was carried out during 2021-22, against last year's achievement of about 295 line km with a growth of 193%. The achievement in line km is considering equivalence of 8.5 line km for every sq km of 3D seismic survey.

About 8.8 Billion Tonnes of additional coal resources were added to the 'Proved category', through Detailed Exploration covering an area of about 317 sq km through 25 Geological Reports.

4.0 Project Reports:

During the year under review, a total of 30 Project Reports (PRs) have been prepared with incremental capacity addition of about 69 Million tonnes per year. Out of these 30 PRs, 23 PRs are of Opencast Projects, 6 PRs of Underground Projects and 1 PR is Mix Project. Out of 30 PRs, 5 PRs have been planned for Non-CIL mines including 1 PR for metal mine. 23 OC PRs include 4 mega opencast projects (capacity 10 Mty or more) viz. Balbhadra OC (10 Mty), Hingula Expn. OC (15 Mty), Banai OC (10 Mty), and Bhalumuda OC (12 Mty). Out of 5 UG PRs for coal mine, 4 PRs have been planned with CM technology. In 1 Mix PR, for UG operation, CM technology has been adopted.

5.0 Upgradation of Laboratories:

Capacities of all the laboratories in CMPDIL have been upgraded. The Geo-Chemical Lab of Coal Characterization Laboratory is implementing its scheme on augmentation of capacity of coal core analysis by introducing automation in sample preparation unit and by addition of rapid analyzers which will cater to handling of larger numbers of analysis. The Lab will process around 24000 metre of coal cores annually when on full operation. The equipment to be installed under this scheme are under different stages of procurement. The Lab at present is equipped with manual/semi-automatic sample preparation units, proximate analyzers, ultimate analyzers, Bomb calorimeter, Ash Fusion Temperature Range Analyzer, HGI apparatus. It has recently added one X-Ray Fluorescence (XRF) system for ash analysis and trace elements study and one Direct Mercury Analyzer for determining Hg content in liquid and solid samples. Instrument such as Swelling Index, LTGK, Plastometer are also available for determining coking properties of coal. The Petrography Lab is having Advance Petrological Microscopes for carrying Petrographic studies in which the maceral content (coal type) and reflectance percentage (Rank/maturity) of coal samples is determined. Petrographic studies are

imperative for ascertaining the suitability of given coal as blends in coke making. One Scanning Electron Microscope is also installed and used for micro-area analysis for CBM assessment.

One chemical analytical lab has also been setup at CMPDIL, RI-VII, Bhubaneswar. The Coal Characterization Lab of CMPDIL has entered into an MoU for analysis of coal cores with CSIR – CIMFR and its associate Labs.

The Geo-Chemical Laboratory is accredited with NABL certification in accordance with the standard ISO/IEC 17025:2017 for its facilities in the field of “TESTING” in 12 different scopes. The Petrography Lab has been accredited by International Committee of Coal and Organic Petrology (ICCP).

Re-accreditation of Coal & Mineral Preparation (CMP) Laboratory is under progress. Accreditation by such recognized body is considered as the first essential step for facilitating mutual acceptance of test results. NABL, continued accreditation to NDT laboratory of CMPDIL, HQ, based on ISO/IEC 17025: 2017 for its facilities/ scope, in field of Non-Destructive Testing. NDT Cell have been established at different Regional Institutes of CMPDIL, with proper equipment and resources.

The existing Environment Laboratories have been strengthened with state-of-the-art equipment. Environment labs of CMPDIL (HQ), RI-I, RI-II, RI-IV, RI-V and RI-VII are accredited by NABL. Environment lab of RI-II was accredited for the first time in this financial year as per the ISO/IEC 17025:2017 scheme of accreditation by NABL.

Further, efforts are underway for getting NABL accreditation for environmental laboratory of CMPDIL at RI-VI. CPCB recognition of Environment Lab of CMPDIL (HQ) is under advanced stage of accreditation process.

A state-of-the-art CBM Lab is functional at CMPDIL to facilitate generation of all parametric data related to CBM/Shale gas related studies, reservoir characteristics and assessment of CBM and Shale gas resources. Further to enhance the capacity and capabilities of CMPDIL, S&T funded project is under implementation by CMPDIL and CSIRO, Australia.

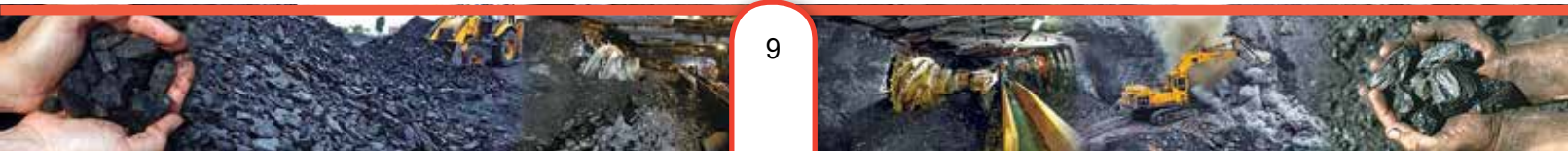
6.0 Manpower Induction:

Manpower requirement of Exploration, Planning and Design as well as allied engineering services have been partially addressed. During 2021-22, 21 nos. of executives have been posted in CMPDIL through transfer and recruitment. Similarly, 59 nos. of non-executive manpower have been added by recruitment / compassionate employment / transfer from other subsidiaries and process of addition of more manpower is going on.

7.0 Geomatics Services:

Satellite surveillance for land reclamation monitoring of opencast coal mines of CIL having production more than 5 million m³ (Coal+ OB) per annum is being carried out on annual basis since 2008. Further to this, land reclamation monitoring of opencast coal mines of CIL having production of less than 5 million m³ (Coal+ OB) per annum was also taken up from the year 2011 in phased manner at an interval of three years.

Accordingly, Land Reclamation Monitoring based on satellite data for 96 Opencast Projects and 9 clusters of different subsidiaries of CIL coming under different categories has been done during the year 2021-22. Vegetation cover mapping of six coalfields viz. Bander Coalfields (WCL), Singrauli Coalfields (NCL), Korba Coalfield (SECL), Karanpura Coalfield (CCL), East Bokaro Coalfield (CCL)



and West Bokaro Coalfield (CCL) was also carried out during the year. Land Use / Cover Mapping of Core and Buffer Zone of 33 Opencast Projects were carried out based on satellite data. Land Use / Cover Mapping for the leasehold area of 6 UG projects of SECL was also completed during the year for compliance with requirement of MoEF & CC.

In new technology adoption, CMPDIL has implemented drones for surveying and mapping applications. Action was taken for training of Pilots at Directorate General of Civil Aviation (DGCA) certified Institution as per DGCA guidelines. Currently, CMPDIL has 8 trained persons who are authorized to fly drones. The job of mapping of Block-E and Block-D of BCCL of about 35 sq km area has been completed. Survey of unstable sites in Jharia Coalfields is under progress. The drones are also being deployed for mapping of degraded forest land for soil moisture studies for 4 coal blocks in Odisha. NCL has also entrusted job of survey of voids in 11 mines of NCL.

In order to expedite the application of drones in coal industry, CMPDIL has taken action for hiring of drones service providers for establishing its efficacy in various applications in coal industry. The first work against open tender for NCL has been completed and report submitted. The work awarded for SECL has been completed and report preparation is under progress. Validation studies for establishing efficacy of drone vis-à-vis 3D TLS were carried out in 50 Pits/Dumps.

In-situ OBR Measurement in 224 outsourced OC Patches and 29 Departmental mines in subsidiaries of Coal India and in 3 mines of NTPC was done using 3D TLS during the year.

8.0 Assistance for setting up of coal washeries:

CMPDIL offers technical services for Greenfield Coal washeries, right from preparation of conceptual reports to award of works and thereafter, scrutiny of drawings for new washeries and Modification/modernization of existing washeries. These services encompass exhaustive laboratory studies, preparation of Techno-Economic Feasibility Report (TEFR) and Conceptual Report (CR), bid process management, contract document preparation and assistance in award of works followed by scrutiny of drawings during project execution.

A Bid document for Moonidih Washery (2.5 Mtpa) to wash coal at 14% ash level of clean coal has been prepared and submitted to BCCL. Technical Evaluation of Bid document completed by CMPDIL and submitted to BCCL.

A Model Integrated Bid Document (RFQ and RFP) for setting up of Sand / Aggregate Segregation Plant (OB to sand) on Build-Operate Concept has been prepared for CIL and the same was approved by the CIL Board. Work order has been received for customization of bid document for OB to Sand/Aggregate Segregation plant from CCL. A Model Bid Document for renovation of existing Coking Coal Washerries of BCCL on Renovate-Operate-Maintain (ROM) Concept has also been prepared and submitted to CIL. The Document is approved by the CIL Board.

9.0 Environmental Services:

During 2021-22, 50 nos. of reports i.e. 25 nos. of Draft EIA/EMPs/Addendum EIA/EMP (Environmental Impact Assessment/Environment Management Plans) and 25 nos. Form-I/Form-IV/Form-VI were prepared and Environmental Monitoring (air, water and noise) of 299 projects/clusters/establishments of CIL were carried out through nine environmental laboratories located at Asansol, Dhanbad, Nagpur, Bilaspur, Kusunda, Hasdeo, Jayant, Bhubaneswar and Ranchi. Some specialized works like designing of Acid Mine Drainage Effluent Treatment Plant and Water Treatment Plant were also undertaken by CMPDIL.

CMPDIL has prepared and submitted reports on 'Carbon footprint of CIL mines and road map to carbon neutrality', 'Status report of Mine Water Utilization (FY 2019-20)' and 'Environment Sustainability in Coal PSU - Present Status and way forward' under SDC for MoC.

Further, CMPDIL is continuing its accreditation as Environmental Impact Assessment (EIA) consulting organization by Quality Council of India (QCI), New Delhi for mining of minerals including opencast/ underground Mining, thermal, CBM and coal washery sectors to render its services to CIL and other organization spread across India.

10.0 Alternative source of coal based energy:

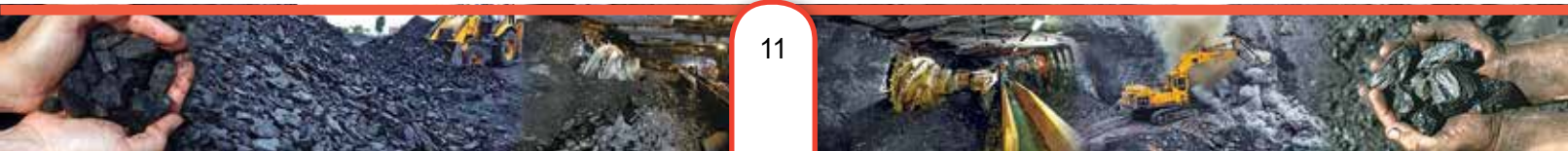
CMPDIL continued its efforts for facilitating commercial development of coal based non-conventional energy resources and is pursuing commercial and R&D projects with National/International organizations. On behalf of CIL & its Subsidiaries, CMPDIL is pursuing development of Coalbed Methane (CBM) in CIL leasehold areas.

Government of India has granted permission to Coal India Ltd. (CIL) and its subsidiaries to explore and exploit Coal Bed Methane (CBM) from coal bearing areas, for which, they possess mining lease for coal. Accordingly, MoP&NG, vide notification dated, 8th May, 2018, has made partial modification in CBM Policy, 1997 for Coal India Ltd. and its Subsidiaries. Therefore, Mining Lease granted to CIL is also deemed as possession of Petroleum Mining Lease (PML) subject to compliance of certain obligations/ formalities. Therefore, vide this notification, the right vested/mining lease with CIL and its subsidiaries for extraction of coal under various Act(s) would be deemed to be a mining lease granted under PNG Rules for exploration and exploitation of CBM.

Accordingly, steps have been taken by CMPDIL for delineation of potential CBM blocks within mining leasehold of CIL Subsidiaries in consultation with Lessee (subsidiary) and CIL for commercial exploitation of Coal Bed Methane (CBM). Gassy seams generally occur in Damodar Valley coalfields and Sohagpur coalfield. Initially, three CBM blocks, namely Jharia CBM Block-I (BCCL area), Raniganj CBM Block (ECL area) and Sohagpur CBM Block (SECL area) have been delineated by CMPDIL in CIL leasehold areas for commercial development of CBM.

CMPDIL is the Principal Implementing Agency (PIA) for the development of CBM under Memorandum of Agreement (MoA) with respective Subsidiary Companies. After approval of Project Feasibility Report (PFR) of Jharia CBM-I Block (BCCL Area), Raniganj CBM Block (ECL Area) & Sohagpur CBM Block (SECL Area), in-principle, by respective Subsidiary Board for commercial extraction of CBM through CBM Developer (CBMD), tenders were initially floated in May 2020 for Raniganj CBM Block & Jharia CBM Block-I, which attracted no offers. Revised bid document was prepared by CMPDIL after incorporation of bidders' suggestions on Notice Inviting Offer (NIO) and Model Revenue Sharing Contract (MRSC) before re-tendering which was subsequently approved by the CIL FDs. Global Tenders for Raniganj CBM Block & Jharia CBM Block – I were once again floated in October 2020. One bid was received for Jharia CBM Block-I which techno-commercially qualified for award of work. Letter of Acceptance (LoA) has been issued to the successful bidder i.e. M/s Prabha Energy Private Limited on 8th June, 2021 and revenue sharing contract has been signed on 20th Sept., 2021.

However, no bid was received for Raniganj CBM Block. Tender for Sohagpur CBM Block was floated later in December 2020 for selection of CBM Developer, but no bid was received. Stake holder's meet was organized at CMPDIL on 10th March, 2021 and MoC on 26th March, 2021 to know the views/ suggestions for CBM development in CIL leasehold areas. The modified Global bid document (NIO & MRSC) was again published for Raniganj CBM Block and Sohagpur CBM Block-I in June, 2021. However, no bid was received for both Blocks.



Steps have also been taken up by CMPDIL/CIL for identification of additional CBM blocks in BCCL and CCL command areas within CIL leasehold.

Production of CBM from CIL areas may have a marginal commercial proposition, however, it will help in enhancing future coal mining of gassy seams safer due to extraction of CBM prior to coal mining. A demonstration project on Coal Mine Methane drainage at Moonidih UG mine (BCCL) in Jharia Coalfield has been approved by the BCCL Board. Global Bid was floated by BCCL in March, 2020 for selection of suitable Technology Provider to execute the project under concept to commissioning and operation mode. However, the tender was cancelled as the bidder did not qualify technically.

Our Hon'ble Prime Minister, Shri Narendra Modi's vision is to use 100 Million Tonne of Coal for Coal Gasification by 2030. In view of above directive ECL, WCL, SECL and CCL intend for setting up a Coal to Chemical/fertilizer & Potential Downstream Product(s) Plant through Coal Gasification on Build-Own-Operate (BOO) basis. Pre-Feasibility Reports (PFRs) have been prepared for gasification projects of ECL, CCL, WCL and SECL. The final products envisaged for the three projects are Methanol, Ammonia and Ammonium Nitrate. CMPDIL is the Principle Implementing Agency (PIA) for carrying out the job related to the development of all the four gasification Projects at ECL, WCL, SECL and CCL.

Considering the foregoing, the tenders for the selection of BOO processor for "Coal to Ammonia" Project at SECL and 'Coal to Methanol' Project at ECL have been floated. A tender for 'Coal to Ammonium Nitrate' at WCL is being prepared and will soon be published for selection of a BOO processor for the project.

11.0 S&T projects and R&D projects:

CMPDIL is the Nodal Agency to co-ordinate research activities funded under S&T Grant of Ministry of Coal (MoC) and R&D Board of CIL. Besides coordination of different R&D works being carried out by various academic and research institutes/ organizations, CMPDIL, with its well-established laboratories, is also undertaking research in key areas of coal / lignite mining industries like coal exploration, development of coal based non-conventional energy resources like Coal Bed Methane (CBM), Coal Mine Methane (CMM), Coal gasification, Shale gas assessment, Coal Beneficiation & Utilization, Improvement of production, productivity and safety in mines, Protection of mine environment and ecology and Development of Clean Coal Technology, etc.

Over the years, many of research projects have yielded considerable benefits resulting in operational improvement, safer working conditions, better resource recovery and protection of environment. While some research projects have produced tangible impact on the industry directly, there are others which have strengthened mine planning, design and technical services required by both operating mines and future mining projects.

During 2021-22, 8 nos. of research projects have been completed. These completed research projects pertain to "Development of on-line coal dust suppression system for opencast mines"; "Design of cost effective process flow-sheet for improved washing efficiency of Indian Coking & Non-Coking Coal"; "Standardization of the air requirement in underground mines for Mass Production Technology"; "Development of a methodology for regional air quality monitoring in coalfield area using satellite data and ground observations"; "Indigenous development of Through The Earth (TTE) two-way Voice Communication System for underground mines"; "Reclamation of coal mined land of NEC through

soil amendment and re-vegetation with native plant species using integrated biological approach”; “Coal Bed Methane (CBM) reserves estimation for Indian Coalfields” and “Development of guidelines for design of all tiers of shovel-dumper dump above dragline dump, with delineation of phreatic surface”.

All out efforts are being made by CMPDIL to involve more research & academic institutions in India and abroad, coal/lignite producing companies and other leading institutes to join R&D endeavor by submitting more need-based research project proposals for long terms growth of coal and lignite industries.

As per directives of MoC, new thrust areas for future research in coal and lignite sectors have been identified. To cater present needs and to address the complex operations of the coal industry, some new areas like application of Artificial Intelligence & Machine learning, Innovation & Indigenization (Atma-Nirbhar Bharat) of Advance Technology etc. have been included in thrust areas for coal research. The list of new thrust areas for coal research have been widely circulated among all leading research institutes of India with request to participate in R&D activities of MoC and CIL by submitting need-based projects proposals on the identified areas.

CMPDIL has designed and developed a website (<https://scienceandtech.cmpdi.co.in>) for S&T research in coal & lignite sector to promote Research & Development (R&D). In the above website information related to completed and on-going research projects including guidelines for implementing coal research projects are available. Brief outcomes of completed projects are also available in the mentioned website, which can help to avoid submission of repetitive nature of project proposals.

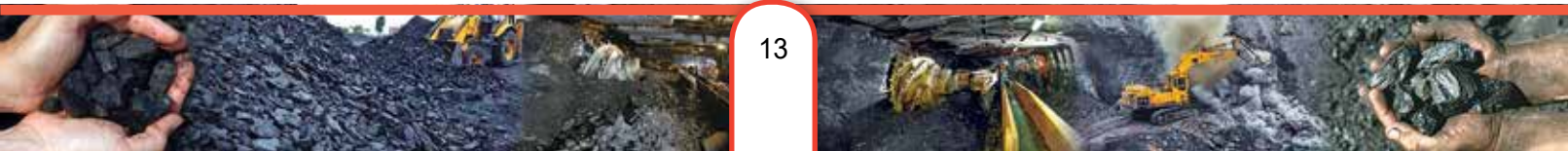
At present, there are 40 on-going research projects being executed in association with reputed organizations like IIT, Bombay; IIT-ISM, Dhanbad; IIT, Kharagpur; IIT, Roorkee; NRSC, Hyderabad; Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore; NML, Jamshedpur; CIMFR, Dhanbad; RFRI, Jorhat; NIT, Nagpur; SCCL; CSIRO, Australia; SIMTARS Australia; University of New Castle, Australia; LTU, Sweden, etc.

CMPDIL has published “Glimpses of some completed Research and Development projects in coal & lignite sector” and circulated to all subsidiaries of CIL, SCCL, NLCIL, etc. for replication of the findings in actual field condition.

12.0 Corporate Social Responsibility and Sustainability:

CMPDIL has built strong partnership with the communities around its drilling camps, Regional Institutes & HQ as well as with the wider society through a well-conceived basket of CSR interventions for the betterment of lives of the people. Under CSR, activities of sustainable development for communities in and around our drilling sites were carried out by CMPDIL.

Major activities carried out during the year 2021-22 include conducting skill development training to 80 underprivileged/unemployed/underemployed youths of Jharkhand as Machine Operator (6 months course); Gender Empowerment of Dhuku Women- Socio Legal Recognition and Mainstreaming of Women in Live-in Relationship, Khunti; Identification and distribution of Aids and Assistive Devices to persons with disability, Ranchi, Jharkhand; Providing ultrasound machine and ambulance for TB and other patients to Ramakrishna Mission TB Sanatorium, Ranchi; infrastructure development in schools/ villages; Educational support to poor and needy school children; financial assistance for treatment and care of leprosy patients; sponsorship to Physically/Mentally Challenged & Blind Students; Distribution of Covid related items along oxymeters, oxygen cylinders, with masks & hand sanitizer for containment



of COVID-19; Organization of specialized medical camps at different locations in Ranchi, Nagpur, Bilaspur, Dhanbad, Asansol & Bhubaneswar; Providing Medical Equipment to Thalassemia Society of Central India, Nagpur, Maharashtra; Installation of 14 nos. Hand Pumps at different locations of Latehar (Jharkhand) along with other rural development works near drilling camps.

13.0 Consultancy Services in Management System standards:

CMPDIL is facilitating for implementation of Management System standards in all Subsidiaries of Coal India Limited, providing Consultancy Services for application of different Management System standards, like ISO 9001, ISO 14001, ISO 45001, ISO 50001, ISO/IEC 27001, ISO 37001, etc. We provide guidance and support in establishment, documentation, awareness training, internal auditors training, auditing supports, implementation, certification support as well as post certification support for these standards.

CMPDIL, with all its Regional Institutes, has been licensed by Bureau of Indian Standards for fulfilment of the requirements of ISO 9001:2015 standard. The present IMS Manual of CMPDIL covers ISO 9001- Quality Management System, ISO 14001- Environment Management System, ISO 27001- Information management System and ISO 50001 – Energy management System. CMPDIL (HQ), Ranchi has also implemented ISO 37001:2016 – Anti Bribery Management System and got certification against this International Standard by BIS, which is valid up to 17.01.2024.

Under our guidance & support, CIL (HQ) has got certification against ISO 9001:2015, ISO 14001:2015 and ISO 50001:2018 from Bureau of Indian Standards.

As on 31st March 2022, three Subsidiaries of CIL i.e. ECL, NCL and WCL (83 units) are certified for Integrated Management System (ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018). CCL and MCL are also in the process of re-certification for all the above standards. NCL has also decided to implement ISO/IEC 27001 – Information Security Management System implementation and to obtain certification under the guidance of CMPDIL.

CMPDIL has also provided consultancy support work for Pakri Barwadih OC and Talaipalli OC Mine Projects of M/S NTPC for implementation and certification of Integrated Management System (ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018). Both the Coal Mining Projects of M/s NTPC have been successfully certified for all the three standards under the consultancy guidance of CMPDIL.

14.0 Consultancy-other than CIL

During FY 2021-22, 35 outside CIL consultancy jobs were obtained by CMPDIL worth Rs. 54.75 crores from 22 organizations outside CIL, which includes consultancy jobs from FCPL, Aurobindo Reality and Infrastructure Pvt. Ltd., WBPDC, NTPC Ltd., SCCL, CSPGCL, Adani Natural Resources, APMDC, Powerplus Traders Pvt. Ltd., APC Drilling Ltd., UCMIP, NALCO, CG Natural Resources Pvt. Ltd., OMC, NHAI, Vedanta Ltd., Prakash Industries Pvt. Ltd., etc.

Presently, 39 outside CIL consultancy jobs are being executed by CMPDIL for 27 organizations like SAIL, NTPC Ltd., DGM (UP), SCCL, THDC, Adani Enterprises Ltd., Govt. of Bihar, Govt. of Uttar Pradesh, RSMML, etc.

During the year 2021-22, 35 outside CIL consultancy jobs were successfully completed by CMPDIL for 19 organizations outside CIL. Some of the major clients were Prakash Industries Pvt. Ltd., MAHAGENCO, MOIL, HINDALCO Industries Ltd., SEML, SCCL, EMIL, NTPC Ltd., TATA Steel, SAIL, APMDC, UCIL, APC Drilling Ltd., FCPL, etc.

15.0 Information and Communication Technology services

Mine Data Management System Portal (MDMS) was developed which depicts salient features of projects being monitoring by CIL. The main features of the portal are to monitor the progress of coal projects which encompasses Environmental Clearance (EC), Forest Clearance (FC), Land Acquisition, Rehabilitation & Resettlement (R&R), financial parameters, HEMM procurement, production and other major infrastructure such as Coal Handling Plant (CHP), silo and railway sidings. MDMS Software has been extended to State Nominated Authorities and Private Block Allottees to monitor Non-CIL Coal Blocks. Maintenance of a Web module integrated with MDMS is done which is used to monitor the status of 1 BT Plan projects at CIL level.

The interface has been developed under MDMS portal for creation of SDC schemes and activities across CIL & subsidiaries with respect to Air Quality Management, Mine Tourism, Renewable Energy, Restoration of ecology and biodiversity and implementation of best practices in Coal sector. A dashboard, Koyla Darpan, for Ministry of Coal (MoC) is being maintained which has information on Indian coal and lignite.

Online Recruitment Portals for non-executives of different subsidiaries of CIL viz. NCL, CCL and CMPDIL have been developed and implemented during the year 2020-21. CMPDIL has established MS Project Server through which CIL Projects are being monitored online by CIL & MoC. CMPDIL has developed portal on National Coal Index for MoC and prepared Roadmap Report on establishing Coal Exchange. CMPDIL has also been entrusted with the task of upgradation of e-Office in the new infrastructure for entire Coal India Limited.

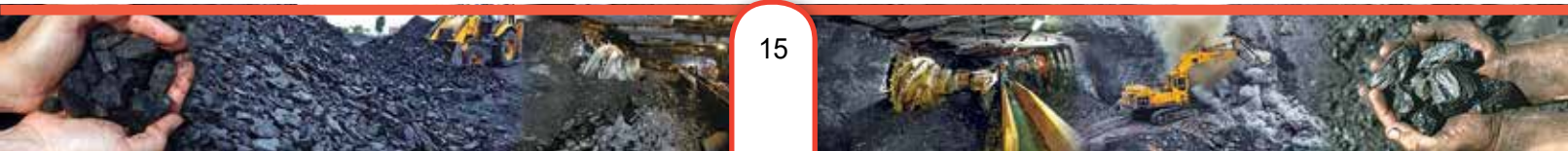
CMPDIL is in the process of introducing Data Analytics in the company. The process of identifying projects for the same is going on. Data Analytics is expected to enhance the information processing capabilities at CMPDIL in a big way. Features like Dynamic Dashboards and Predictive Analysis are likely to help the company in taking giant strides towards a technology-enabled work sphere. Subsequently, CMPDIL has plans to lend consultancy services in Data Analytics to the subsidiary companies of Coal India Limited

16.0 Recognition and Awards:

The Government of India recognized the contribution and relevance of CMPDIL and conferred it with the status of a Mini Ratna (Category-I) in 2019 in accordance with the provisions of the Department of Public Enterprise's (DPE's) guidelines in their O/M No. 11/36/97-Fin dated 09-10-1993. The DPE's directions provide for grant of enhanced autonomy and delegation of powers to the profit-making public-sector enterprises (PSEs) as a policy objective, for making the public sector more efficient and competitive. Impressive performance of CMPDIL got reflected in getting Excellent MoU (between CIL & CMPDIL) rating from DPE consistently since 2007-08 (barring 2010-11 and 2018-19). MoU for 2020-21 is under process of evaluation and approval at CIL.

17.0 Corporate Governance:

The conditions of Corporate Governance, as stipulated in the guidelines on Corporate Governance for Central Public Sector Enterprises issued by Department of Public Enterprises, Govt. of India, have been complied with by CMPDIL. A separate section on Corporate Governance has been added to the Directors' Report and a certificate of compliance of conditions of Corporate Governance from the Statutory Auditors of the Company is annexed to Directors' Report.



18.0 Acknowledgement

All these achievements could be possible because of the concerted efforts of employees of your company, wholehearted support from members of Trade Union (JCC) and Officer's Association as well as the help extended by CIL and Ministry of Coal. I believe that the kind of employee involvement, commitment and level of expertise now available in the company would be a source of great comfort for the future commitments. I am confident that we shall continue to move forward for achieving greater heights in future and meet the challenges as well as expectations of the shareholders with our dedicated commitment and performance at all levels as in the past.

I express my sincere thanks to all the shareholders, Ministry of Coal, other Ministries and Departments, State Governments, all employees, trade unions, customers and vendors for their whole-hearted support and relentless co-operation.



(Manoj Kumar)

Place : Ranchi

Date : 21.07.2022

Chairman-cum-Managing Director

CMPDI LTD

PERFORMANCE AT A GLANCE

Fig. Rs in crores

Financial Year	2021-22 (Audited)	2020-21 (Audited)	2019-20 (Audited)
PARTICULARS			
Sale of Services (Net Sales)	1208.43	1488.6	1381.31
Other Income	29.83	20.08	21.7
Total Income	1238.26	1508.68	1403.01
Total Expenses	872.22	1094.19	1090.39
PBT	366.04	414.49	312.62
PAT	282.12	316.96	193.39
Net Block	204.85	188.01	182.5
Current Assets	1373.56	1414.43	1057.35
Current Liabilities	510.03	617.79	424.63
Working Capital	863.53	796.64	632.72
Capital employed*	1068.38	984.65	815.22
Equity Capital	142.8	142.8	38.08
Reserves & Surplus	871.72	659.45	550.8
Net Worth**	995.62	784.47	570.31
Return on Capital Employed	34.27	42.11	38.37
EPS	1975.63	2219.61	1354.27***

*Capital Employed = Net block + Working Capital

Net worth = Eq share capital + Reserves & Surplus Excluding Capital Reseve

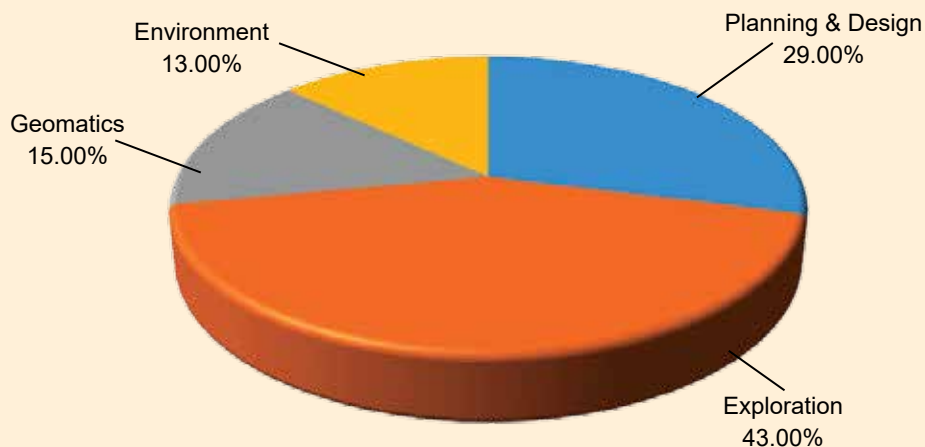
*** Earning Per share has been restated based on Total no. of Equity shares Outstanding 1428000 nos

Fig. Rs. in Cr.

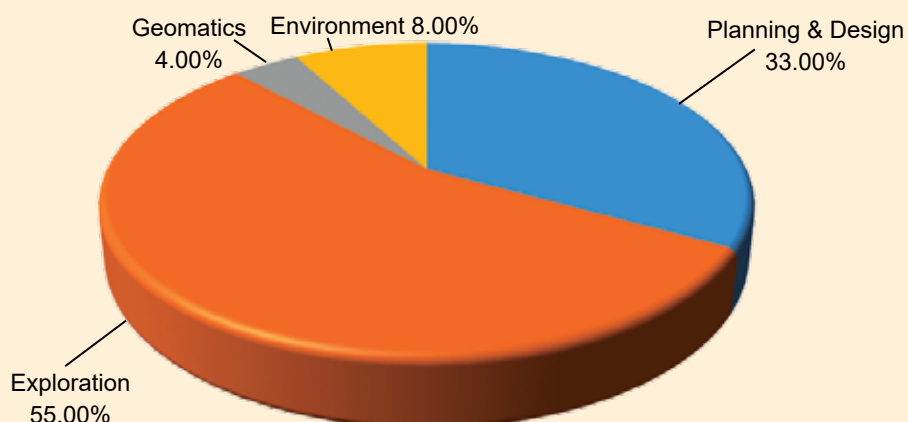
Financial Year	2021-22 (Audited)	2020-21 (Audited)	2019-20 (Audited)
PBT	366.04	414.49	312.62

FINANCIAL OVERVIEW OF CMPDIL

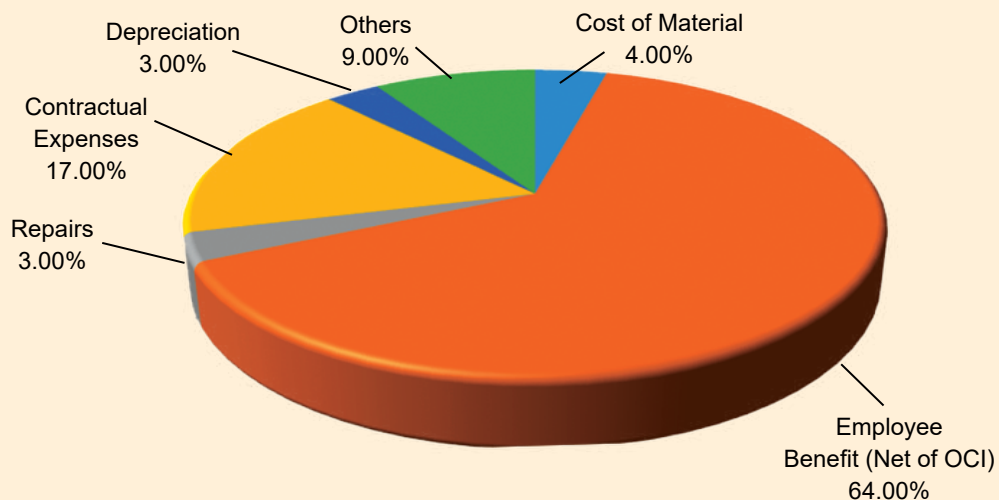
Sales Breakup (2021-22)



Expenditure Breakup (2021-22)

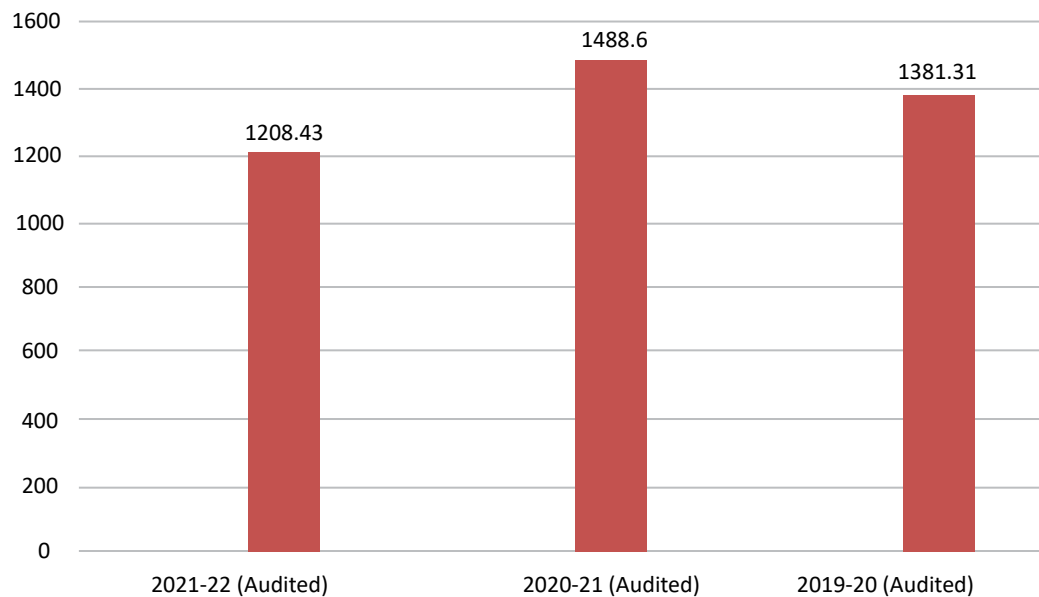


Expenses Breakup (2021-22)

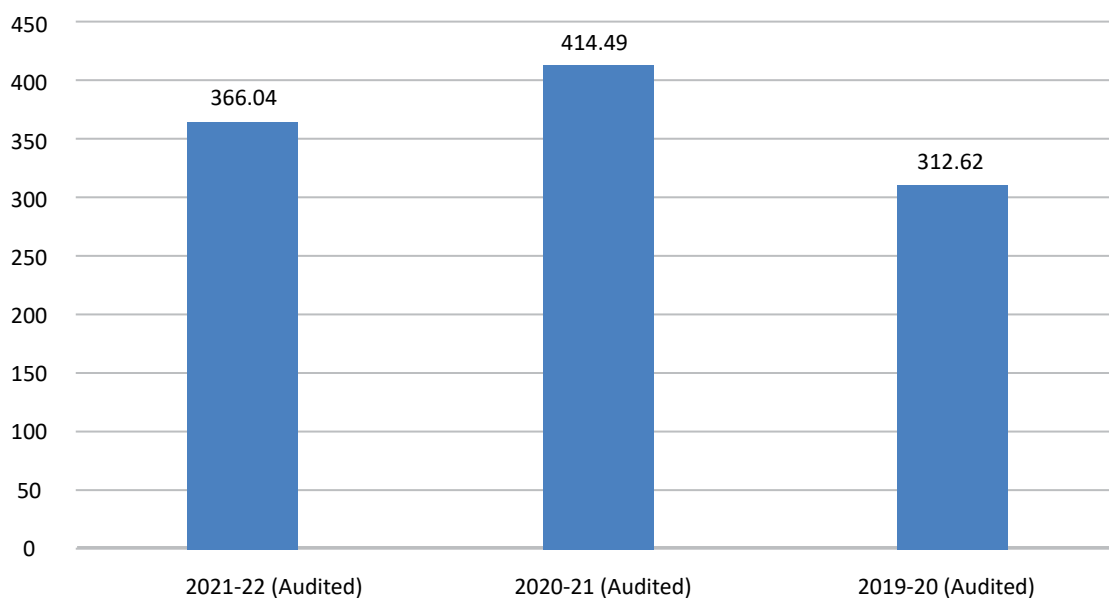


FINANCIAL OVERVIEW OF CMPDIL

Sales of Services (Net Sales) Rs. in Crores



PBT in Rs. Crores



DIRECTORS' REPORT

To

The Shareholders

On behalf of the Board of Directors, I have great pleasure in presenting the 47th Annual Report on the working of your Company along with the Accounts for the year ended 31st March, 2022 and Reports of Statutory Auditors and the Comptroller and Auditor General of India thereon.

PART: A

1.0 CORPORATE OVERVIEW

Your Company, a Mini Ratna (Cat-I) company, continued to operate with seven Regional Institutes (RIs) located at Asansol, Dhanbad, Ranchi, Nagpur, Bilaspur, Singrauli & Bhubaneswar and its Headquarter at Gondwana Place, Kanke Road, Ranchi. Seven Regional Institutes designated as Regional Institute (RI-I to RI-VII) rendered consultancy services to seven corresponding subsidiaries of CIL viz. ECL (RI-I), BCCL (RI-II), CCL (RI-III), WCL (RI-IV), SECL (RI-V), NCL (RI-VI) & MCL (RI-VII).

Consultancy services to CIL (HQ), NEC & non-CIL clients like NTPC Ltd., Odisha Coal & Power Ltd. (OCPL), Gujarat Industries Power Company Ltd. (GIPCL), NLC India Ltd., Ultratech Industries Ltd., etc. were provided mainly through CMPDIL Headquarters. Besides these Consultancy services, CMPDIL also handled specialized assignments of Ministry of Coal.

During FY 2021-22, 35 outside CIL consultancy jobs were obtained by CMPDIL worth Rs. 54.75 crores from 22 organizations outside CIL, which includes consultancy jobs from FCPL, Aurobindo Reality and Infrastructure Pvt Ltd, WBPDC, NTPC Ltd, SCCL, CSPGCL, Adani Natural Resources, APMDC, Powerplus Traders Pvt Ltd, APC Drilling Ltd, UCMIP, NALCO, CG Natural Resources Pvt Ltd, OMC, NHAI, Vedanta Ltd, Prakash Industries Pvt Ltd etc.

Presently, 39 outside CIL consultancy jobs are being executed by CMPDIL for 27 organizations like SAIL, NTPC Ltd, DGM (UP), SCCL, THDC, Adani Enterprises Ltd. Govt. of Bihar, Govt. of Uttar Pradesh, RSMML etc.

During the year 2021-22, 35 outside CIL consultancy jobs were successfully completed by CMPDIL for 19 organizations outside CIL. Some of the major clients were Prakash Industries Pvt Ltd, MAHAGENCO, MOIL, HINDALCO Industries Ltd, SEML, SCCL, EMIL, NTPC Ltd, TATA Steel, SAIL, APMDC, UCIL, APC Drilling Ltd, FCPL etc.

1.1 Major Services Offered

• Geological Exploration & Drilling

Detailed Geological Exploration of regionally explored blocks with a view to generate reliable geological and geo-engineering data and assess in-situ coal reserve for preparation of mining project report; geophysical survey through multi-probe geophysical logging; high resolution shallow seismic survey; hydro geological investigation and identification of coal bed methane resources.

• Project Planning & Design

Preparation of feasibility reports, detailed project reports and detailed engineering drawings for Underground and Opencast mines, master plans of Coalfields, Coal and Mineral Beneficiation and Utilisation Plants, Coal Handling Plants, Workshops and other Ancillary Units and Infrastructure facilities including techno-economic evaluation of various schemes and project reports for investment decisions.



• **Engineering Services**

Detailed design of system and sub-system for mines, beneficiation and utilisation plants, coal handling plants, power supply systems, workshops and other units, architectural planning & design.

• **Research & Development**

Serving as nodal agency for all S&T schemes funded by Ministry of Coal and R&D schemes funded by R&D Board of CIL. CMPDIL, on its own, also takes up applied research and development in the field of mining, beneficiation, utilisation, environment, exploration, etc.

• **Laboratory Services**

Well-equipped state of the art laboratories are providing quality analysis of mine gases, air, water, noise, coal core sample, washability characteristics of coal, physico-mechanical strength of strata, petrography studies, Non-Destructive Testing (NDT), etc.

• **Environmental Services**

Preparation of Environment Management Plan, its implementation and monitoring through Regional Institutes and Headquarters; analysis of air, water, noise samples at in-house CPCB approved laboratories; Preparation of Mine closure plan and monitoring of mine closure; Slope stability study for OB and Highwall; Environmental carrying capacity of mines and study of riverine ecosystem; Utilisation of remote sensing satellite data for land use monitoring for entire CIL mines, etc.

• **Information Technology**

• **Human Resource Development**

• **Specialised Services**

- ❖ Geomatics including Remote Sensing
- ❖ Ventilation & Gas survey in mines
- ❖ Controlled Blasting
- ❖ Performance evaluation of new explosives
- ❖ Mining Electronics
- ❖ Mine capacity Assessment
- ❖ Mine Support Design, Rock Mass Rating (RMR)
- ❖ Non-Destructive Testing
- ❖ Management System Consultancy
- ❖ Measurement of Coal and OBR

1.2 Financial Working Results

During the year under review your Company earned a Profit after Tax of ₹ 282.12 Crores. The working results of the company are given below:

(₹ In Crores)

Particulars	Year ending 31.03.2021	Year ending 31.03.2022
Net Sales	1488.60	1208.43
Other Income	20.08	29.83
Total expenses	1094.19	872.22
Profit Before Tax	414.49	366.04
Tax Expenses	97.53	83.92
Profit After Tax (A)	316.96	282.12
Other Comprehensive Income (OCI)*	(9.51)	26.65
Income Tax that will be reclassified to Profit or Loss	(2.39)	6.71
Total Other Comprehensive Income (B)	(7.12)	19.94
Total Comprehensive Income (A) + (B)	309.84	302.06

1.3 Management Discussion and Analysis Report

The Management of Central Mine Planning & Design Institute Ltd. (CMPDIL) presents its Discussion and Analysis report covering the different matters of importance, including performance and outlook of the Company.

1.3.1 Major objectives of CMPDIL:

1. To provide consultancy support in coal and mineral exploration, including geological, geophysical, hydrological and environmental data generation.
2. To improve quality of exploration and feasibility reports providing higher level of confidence of geological assessment for optimum mine planning.
3. To optimize generation of internal resources by improving productivity of resources, preventing wastage and to mobilize adequate external resources to meet investment need.
4. Project planning and designing for coal mines, Coal beneficiation and Utilization Plants, etc.
5. To promote, co-ordinate and ensure effectiveness of research activities in coal sector under S&T and R&D Schemes.
6. To undertake formulation of Environmental Management Plans (EMPs), Environment Impact Assessment (EIA) and Mine Closure Plans for coal mining and related projects.
7. Extending remote sensing services for land reclamation monitoring, environmental data generation, vegetation cover mapping, coal mine fire mapping, large scale topographical mapping of coalfields, infrastructure planning including selection of TPS and Washery locations, etc.

8. To provide field and laboratory services to Subsidiary Coal Producing Companies of CIL.
9. To provide consultancy services to outside organizations other than CIL and its subsidiaries.

1.3.2 Brief of functions of CMPDIL:

A brief description of all the functions of CMPDIL is given below:

- a. Geological Exploration and support Services - This core function of CMPDIL since its inception offers the following services for mineral deposits:
 - Planning and execution of exploration;
 - Resource evaluation and documentation for investment and exploitation decisions and
 - Related field tests and laboratory support.
- b. Planning, Design and Support Services – Being another core function of CMPDIL since inception, the following services are offered for construction and operation of mining, beneficiation, utilization and other infrastructure and engineering projects.
 - Formulation and / or evaluation of conceptual / pre-feasibility / feasibility studies, project reports, and basic and detailed engineering designs;
 - Engineering and other related consultancy support; and
 - Related field tests and laboratory support.
- c. Environmental Management Services - Under offer since 1992, these cover all round support to mining and mineral industry for environmental management during their planning and operations, including Mine Closure Planning, laboratory and test support, study of riverine ecosystem, etc.





- d. Geomatics Services – Under offer since 2001, the following services are offered:
 - Differential GPS survey for mining lease and forest boundary, OBR/Coal Check Measurement, Correlation Survey of UG Mines, etc.
 - Remote Sensing studies including Coal Mine Fire Mapping, Land reclamation monitoring of opencast mines, Land Use/Vegetation Cover Mapping of Coalfields, etc.
 - Topographical Survey,
 - Site selection of Thermal Power Stations based on Satellite Data & GI.
 - Drone based survey and mapping services.
- e. Human Resource Development - Under offer since 1976, these cover technical, managerial and management-systems related training to the market clientele, particularly in mineral and mining sector.
- f. Management System Services - Under offer since 1997, these cover complete range of consultancy and support for creation, documentation, implementation and training for various management systems standards, e.g. ISO 9001, ISO 14001, OHSAS 18001, SA 8000, ISO 50001, ISO 27001 and ISO 37001. CMPDIL, with all its Regional Institutes, have been licensed by Bureau of Indian Standards for fulfilment of the requirements of the new revised ISO 9001:2015 standard.
- g. Specialised Services - Expert consultancy services are also offered in the field Ventilation & Gas survey in mines, Controlled Blasting, Performance evaluation of new explosives, Mining Electronics, Mine Capacity Assessment, Mine Support Design, Rock Mass Rating

(RMR), Non-Destructive Testing, Development of Apps & portals for CIL & MoC, etc.

1.3.3 Industry Structure and Development

The last two years have been difficult for the world economy on account of the COVID-19 pandemic. Repeated waves of infection, supply-chain disruptions and, more recently, inflation have created particularly challenging times for policy-making. The war in Ukraine has triggered a costly humanitarian crisis and economic damage from the conflict will contribute to a significant slowdown in global growth in 2022. Fuel and food prices have increased rapidly, with vulnerable populations - particularly in low-income countries - most affected. Interest rates are expected to rise as central banks tighten policy, exerting pressure on emerging market and developing economies. Moreover, many countries have limited fiscal policy space to cushion the impact of the war on their economies.

Global growth is projected to slow from an estimated 6.1 percent in 2021 to 3.6 percent in 2022 and 2023. Beyond 2023, global growth is forecast to decline to about 3.3 percent over the medium term. Crucially, this forecast assumes that the conflict remains confined to Ukraine, further sanctions on Russia exempt the energy sector and the pandemic's health and economic impacts abate over the course of 2022. With a few exceptions, employment and output will typically remain below pre-pandemic trends through 2026. Scarring effects are expected to be much larger in emerging market and developing economies than in advanced economies. Nonetheless, the global environment still remains uncertain. Faced with these challenges, the Government of India's immediate response was a bouquet of safety-nets to cushion the impact on vulnerable sections



of society and the business sector. It next pushed through a significant increase in capital expenditure on infrastructure to build back medium-term demand as well as aggressively implemented supply-side measures to prepare the economy for a sustained long-term expansion. The Indian economy is expected to witness real GDP expansion of 9.2 per cent in 2021-22 after contracting in 2020-21. This implies that overall economic activity has recovered past the pre-pandemic levels. With the vaccination programme having covered the bulk of the population, economic momentum building back and the likely long-term benefits of supply-side reforms in the pipeline, the Indian economy is in a good position to witness GDP growth of 8.0-8.5 per cent in 2022-23. The year ahead is also well poised for a pick-up in private sector investment with the financial system in a good position to provide support to the revival of the economy. This projection assumes that there will be no further debilitating pandemic related economic disruption, monsoon will be normal, withdrawal of global liquidity by major central banks will be broadly orderly, oil prices will be in the range of US\$70-\$75/bbl, and global supply chain disruptions will steadily ease over the course of the year.

Mining in India is a major economic activity which contributes significantly to the economy of the country. The coal mining and power generation are two of the core industries and together contribute about 10% to India's Index of Industrial Production (IIP) affirming their importance to the economy. Further, India's logistics industry, sponge iron industry, aluminum industry among several others depend on India's domestic coal industry. Coal mining often gives stimulus to local economy (both in the coal sector directly and in the other sectors indirectly) through

creation of jobs. The presence of mine in the territory also contributed to local development, by inducing improvement in local infrastructure, such as road network and water supply, and allowed the local population to have better access to health and education services. According to recent employment figures, Indian coal mines employed around 355,000 workers and about 1.2 million people are dependent on the coal sector. This, however, does not include employment related to coal logistics, which include both road and railway transportation. Hence, the importance of the coal sector to India, not just in terms of an energy source for the country, but also for the socio-economic role it plays, cannot be denied.

India's energy demand will continue to grow over the next 20 years. The share of coal is expected to remain high at 48-54% till 2040 and accounts for 76% of the total thermal power generating capacity of the Utility sector. Coal demand in India has been increasing continuously driven by both, power sector and non-regulated sector. Even in the most pessimistic scenario, it appears that the demand for coal in India, as a source of primary energy, shall expand until 2030 and perhaps beyond. Overall coal demand is estimated to be about 1462 Mt by 2030 as per Draft Vision @2047 document prepared by KPMG. The demand scenario is influenced by economic growth, energy efficiency and emergence of alternate coal uses. CIL may continue to play the balancing figure in the supply chain.

A joint exercise was carried out by CMPDIL along with GSI in August, 2020 to identify the Prognosticated Coal Bearing Area in India. A total of 43 nos. of Gondwana Coalfields and 19 nos. of Tertiary Coalfields have been studied. Since the exploration activities are dynamic process, with accrued knowledge the exercise was



revisited in March 2021. As on March 2021, the total basinal area of Gondwana Coalfields and Tertiary Coalfields has been estimated to be about 66967 sq km, out of which, a total of about 32970 sq km has been assessed to be prognosticated coal bearing area. The total regional exploration area measured was about 19321 sq km and 13382 sq km area is left-out for regional exploration. The total basinal area of Tertiary Coalfields was estimated to be 1336 sq km, out of which, a total of about 859 sq km was assessed to be prognosticated coal bearing area. The total regional exploration area stands at 402 sq km.

The Government has further directed CMPDIL to take up the Regional and Detailed Exploration with emphasis on 2D/3D Seismic Survey in the country to identify the best of the properties for coal exploitation in the near future at a faster pace. The aim is to make the coal blocks available to the prospective bidders as quick as possible to exploit the available coal resources of the country to the extent possible. Considering this, the administrative ministry is trying for putting up the Non-CIL coal blocks with G2 level of resources (explored with about 2 boreholes per sq km of drilling with 2D/3D seismic surveys) for auction in place of previous practice of exploration with more than 8-10 boreholes per sq km.

The target of 6.50 lakh metre of drilling along with data acquisition through 2D/3D Seismic Survey of 875 Line km have been proposed for 2022-23 with an aim to have priority on 2D / 3D seismic surveys in exploration in combination with the physical drilling with reduced borehole density mainly due to reduction in fund by the Ministry of Coal for Promotional Exploration and detailed drilling in non-CIL blocks and diminishing availability of drilling meterage in CIL blocks.

Moreover, exploration and planning support would be required by CIL on continual basis for enhancement and sustenance of the production in future. This will be true also for the infrastructural facilities, including CHPs, washeries, etc. Additionally, CMPDIL's expert services had been in demand by other coal producers in public and private sectors as well. CMPDIL rendered consultancy services for other than CIL companies like THDC India Ltd., NTPC Ltd., JSW Steel Ltd., Singareni Collieries Company Limited (SCCL), NLC India Ltd, IRCON International Ltd., Adani Enterprises Ltd., National Highway Authority of India, Uranium Corporation of India Ltd., etc. Stride of coal companies, mainly of CIL, towards meeting the coal demand from indigenous supply will have a spurt in CMPDIL's services.

Furthermore, endeavors by CIL and other companies towards adopting alternative source of coal based non-renewable energy generation like Coal Bed Methane / Coal Mine Methane, Coal Gasification, etc., is likely to be the sources of consultancy work for CMPDIL. CMPDIL, has acted proactively and has been appointed as the Principal Implementing agency for execution of the CBM projects in CIL areas viz. ECL, BCCL and SECL. Our Hon'ble Prime Minister, Shri Narendra Modi's vision is to use 100 Million MT of coal for coal gasification by 2030. In view of above GOI's directive, for 100 Million MT Gasification of coal, ECL, WCL, SECL and CCL intend for setting up a Coal to Chemical/fertilizer & Potential Downstream Product(s) Plant through Coal Gasification on Build-Own-Operate (BOO) basis.

Additionally, emerging area of Information and Communication Technology (ICT) in coal sector is also presenting additional opportunities for CMPDIL which will increase further in coming years.



Moreover, CMPDIL has taken initiatives to ensure that its endeavors get reflected in top and the bottom lines, appreciably, and accordingly, the sales and PBT have increased considerably in recent past.

Though the coal fuel is expected to retain its primacy in India and remain the only realistic option for providing cheap and abundant energy for the local population at least in the next 12 to 15 years' time, some doubts had been raised over India's reducing appetite for thermal coal and sustenance of the coal demand on a longer time horizon. Nevertheless, the Government's commitment to exploit the renewable sources of energy in a big way, parallelly, is likely to impact the future expansion programme of the coal sector. India's post-2020 'climate action plan' has promised to reduce emission intensity by 33-35% by 2030 over the 2005 levels apart from boosting the share of clean energy in electricity generation and adding carbon sinks with tree and forest cover to remove carbon dioxide from the atmosphere. Moreover, various requirements of compliances under environment guidelines, pressure from the Green lobbyists as well as efforts required in land acquisition for coal mining are going to be tougher day-by-day. Reduction in the demand of coal will undermine the requirement of exploration in coal, as well. Exploration, being the major contributor to the turnover of CMPDIL, would have to be diversified for non-coal sector, including metal sector, to continue its dominance. Though, reduction in fund by Ministry of Coal for Exploration during 2021-22 and 2022-23 which is likely to be made nil from next year, difficulties in getting approval from NMET in respect of individual exploration proposals and diminishing availability of drilling meterage in CIL blocks may have

negative impact on the topline and bottom-line of the company. To compensate for loss in revenue from Exploration, more efforts will have to be made to increase revenue from other services like Planning & Design, Geomatics, Environmental Services including Hydrogeological Studies, etc.

Considering the above and to infuse dynamism in business domain of CMPDIL, it will be realistic to ensure enhancement in the exploration capacity though further productivity improvement and particularly, through wider use of 2D/3D Seismic Survey and other geo-physical methods, upgradation and modernization of existing facilities and infrastructure wherever required, rationalizing manpower utilization and executive manpower induction, diversification in newer areas of mineral, mining and allied engineering sectors other than coal, enhancing quantum of outside jobs (non-CIL) in value terms, establishing effective monitoring system in core areas including drilling and inventory control through computerization and networking, establishing technology for development of alternative sources of coal based energy, etc.

1.3.4 Strategy adopted to realize above objectives:

With the depth of knowledge and market place CMPDIL has in mineral, mining and allied sectors, it is adopting the following strategies and business plan to realize its corporate objectives:

- (i) Enhancing exploration capacity through wider application of 2D/3D seismic survey in place of physical drilling, etc.
- (ii) Diversification in newer areas of mineral, mining and allied engineering sectors other than coal to the extent possible,





- (iii) Increasing market share for outside clients in revenue,
- (iv) Tie-up with strategic partners, both, within and outside the country,
- (v) Upgradation and modernization of existing facilities and infrastructure,
- (vi) Increasing operational efficiency and work quality,
- (vii) Improving corporate culture and internal systems,
- (viii) Rationalizing manpower utilization and executive manpower induction to ensure continued planning and specialized support to the coal industry,
- (ix) Better cost control measures and monitoring, and
- (x) Rendering services towards development of coal based alternative source of energy.

1.3.5 Strength and Weakness

Strength

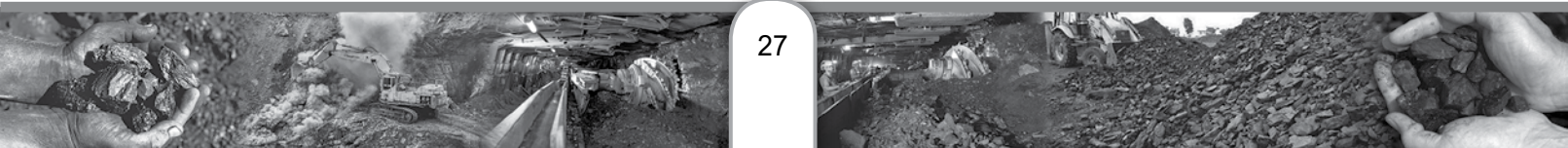
- CMPDIL is truly a multi-disciplinary organization, perhaps one of its kind, providing almost all the services prior to mining, during the mining operation and after the mining operations under one roof.
- Domination over detailed coal exploration in India. CMPDIL is recognized as the most preferred consultant amongst Indian clients besides having government 'preferences'.
- With the strategically located Regional Institutes, it is able to provide door-step service to all the subsidiaries of Coal India Ltd. along with the Ministry of Coal. CMPDIL has a 'Pan-India' presence in the vicinity of coal bearing areas.
- CMPDIL enjoys the distinction of possessing a large, authentic data-

base relating to coal blocks, coal deposits, coal quality, etc. giving access to the knowledge of vast resources available in coal sector.

- It has a base of more than 1400 multidisciplinary skilled and experienced manpower.
- Has rich experience of executing over 1300 integrated coal exploration projects, planning of over 1200 mining Project Reports with individual project capacity up to 70 MTY opencast mine and 7.5 MTY underground mine, large number of infrastructural-facilities, etc.
- It has the largest infrastructure for coal exploration (largest fleet of drill in the country for detailed exploration) having geographical spread in 8 states, laboratory facilities, baseline data generation capacity, etc.

Weakness

- Dependence upon CIL subsidiary & Ministry of Coal for earning revenue.
- Dependence upon GSI/MECL for Regional exploration data which is prerequisite for detailed coal exploration.
- High operation cost and fixed cost i.e. employee compensation in comparison to peers in the industry.
- High rate of superannuation of skilled and experienced executive, workforce and attrition of new recruits after being trained.
- Non diversification i.e. mainly restricted to coal industry.
- Shortage of skilled and qualified personnel in executive and non-executive cadre.



1.3.6 Opportunities and Threats

Opportunities

- The demand for coal is likely to increase for at least up to 15 years providing scope for CMPDIL services
- Auction/allotment of coal blocks to captive users - both to public & private companies by the Government have created market opportunities for CMPDIL outside CIL to some extent
- Need to enhance the application of IT in coal sector
- Diversification in non-coal sector
- Expansion of services in the field of specialized services related to CBM/CMM/ Other non-conventional energy resources.

Threats

- The government has set in motion plans to bring sweeping changes to the sector. It has liberalised the coal sector by allowing 100 per cent FDI. This move may result in market competition from other domestic or international consultancy service providers.
- Coal is fast being replaced by renewable energy sources like solar, wind, etc. Over the years, the development of these alternative power sources will increase and become cheaper. There may be a downward trend in coal mining leading to decrease in the consultancy assignments to CMPDIL if not diversified in time.
- Reduction in fund by Ministry of Coal for Promotional Exploration and detailed drilling in non-CIL blocks as well as diminishing availability of drilling meterage in CIL blocks has started impacting the topline and bottom-line of the company.

- Restriction in exploration in forest area and law and order problem are affecting the drilling operations in these areas.
- Being a dominantly human resource driven company, present high age profile will prove detrimental in future. Expert manpower is fast depleting, as many of its experienced technical experts are superannuating.

1.3.7 Pricing

Revenue from Consultancy Services by CMPDIL, a subsidiary of Coal India Limited:

Recognition of revenue arising out of Consultancy Services for exploration, mine planning / project reports, environmental plans and other Engineering services is based on pricing formula adopted for different categories of customers.

1.3.8 Marketing Policy

CMPDIL is committed to provide consultancy services in all possible areas as and when demanded by Coal India Limited and its subsidiary companies on priority basis. However, CMPDIL is also committed to undertake jobs from outside CIL clients with due consideration of the importance and strategic values, wherever such outside consultancy jobs can be undertaken.

1.3.9 Outlook and Preparedness

Spurt in drilling, as witnessed during XI and XII Plans, which continued in 2017-18, could not be maintained during 2018-19 due to various reasons including non-availability of fund in time. Further, 12.94 lakh metre of drilling in 2019-20 and 12.48 lakh metre of drilling in 2020-21 could be carried out against the achievement of 13.60 lakh meter in 2018-19 mainly due to nationwide lockdown arising out of COVID-19 pandemic. Moreover, through departmental drills, 5 lakh metre of drilling was carried out with productivity

of 619 metre/drill/month during 2018-19, which is the highest in the history of CMPDIL. Modernization of departmental drills, induction of new higher capacity mechanical and hydrostatic drills, introduction of high performance bits resulting in higher productivity, adopting latest mud technology, effective arrangement of drilling accessories and manpower had been the key to augment the drilling capacity of CMPDIL.

Further, due to reduction in fund by Ministry of Coal for Promotional Exploration and detailed drilling in Non-CIL blocks, only 7.91 lakh metre of drilling could be carried out during 2021-22 against a lesser target of 7.50 lakh metre of drilling. This trend is expected to continue in foreseeable future.

About 8.8 billion tonnes of coal resources were added to the 'Proved category' through Detailed Exploration covering an area of about 317 sq km through 25 Geological Reports. In addition to this, about 5.7 billion tonnes of new coal resources (indicated and inferred category) were estimated through Promotional (Regional) Exploration covering an area of about 156 sq km through 6 Geological Reports.

CMPDIL has taken up 2D seismic survey on large scale and data acquisition with depth range of about 1000 metre. About 865 line km of 2D/3D seismic survey were carried out during 2021-22, against last year achievement of 295.37 line km with a growth of 193%. Out of 10 blocks, outsourced in 2020-21 for 2D/3D Seismic survey along with core drilling, seismic data acquisition in 5 blocks was completed successfully and seismic reports of 2 blocks were submitted.

Government of India has put emphasis on introduction of 2D/3D seismic survey technology coupled with reduced number of boreholes for drilling to speed up the

pace of exploration with reduced cost. CMPDIL has already taken steps to intensively use modern technologies, such as, various geophysical survey techniques of exploration to reduce the dependence on time consuming process of drilling and use them in preparation of Geological Report. This will expedite the preparation of Geological Reports and provide better confidence in Geological Model of the blocks.

The target of 6.50 lakh metre of drilling along with data acquisition through 2D/3D Seismic Survey of 875 Line km have been proposed for 2022-23 against the achievement of 7.91 lakh meter of drilling and 865 line km of 2D/3D Seismic Survey during 2021-22. Pace of exploration during past three years has been reducing mainly due to reduction in fund provided by the Ministry of Coal under Central Sector Scheme (CSS) for Coal Exploration in Non-CIL and Promotional blocks as well as lack of scope for drilling in CIL areas for increased meterage targets and the trend may continue in near future as well.

Out of 30 PRs submitted during the year, 23 PRs were of Opencast Mines, including 4 for mega projects (capacity 10 Mty or more), 6 PRs of Underground Projects and 1 PR is Mix Project. Out of 30 PRs, 5 PRs have been planned for non-CIL mines including 1 PR for metal mine. Out of 5 UG PRs for coal mine, 4 PRs have been planned with CM technology. In 1 Mix PR, for UG operation, CM technology has been adopted.

The Coal Characterization Lab of CMPDIL HQ has entered into an MoU for analysis of coal cores with CSIR-CIMFR and its associate Labs. The Geo-Chemical Laboratory is accredited with NABL certification in accordance with the standard ISO/IEC 17025:2017 for its facilities in the field of "TESTING" in 12 different scopes. The Petrography Lab



has been accredited by International Committee of Coal and Organic Petrology (ICCP). One chemical analytical lab has also been setup at CMPDIL, RI-VII, Bhubaneswar.

Re-accreditation of Coal & Mineral Preparation (CMP) Laboratory is under progress. Accreditation by such recognized body is considered as the first essential step for facilitating mutual acceptance of test results. NABL, continued accreditation to NDT laboratory of CMPDIL HQ, based on ISO/IEC 17025:2017 for its facilities/scope, in the field of Non-Destructive Testing. NDT Cell have been established at different Regional Institutes, with proper equipment and resources.

The existing Environment Laboratories have been strengthened with state-of-the-art equipment. Environment labs of CMPDIL HQ, RI-I, RI-II, RI-IV, RI-V and RI-VII are accredited by NABL. Environment lab of RI-II was accredited for the first time in this financial year as per the ISO/IEC 17025:2017 scheme of accreditation by NABL. Further, efforts are underway for getting NABL accreditation for environmental laboratory of CMPDIL at RI-VI. CPCB recognition of Environment Lab of CMPDIL HQ is under advanced stage of accreditation process and shall be done shortly.

A state-of-the-art CBM Lab is also functional at CMPDIL to facilitate generation of all parametric data related to CBM/Shale gas related studies, reservoir characteristics and assessment of CBM and Shale gas resources. Further to enhance the capacity and capabilities of CMPDIL, S&T funded project is under implementation by CMPDIL and CSIRO, Australia.

Satellite surveillance for land reclamation monitoring of opencast coal mines of CIL having production more than 5 million m³

(Coal+OB) per annum is being carried out on annual basis since 2008. Further to this, land reclamation monitoring of opencast coal mines of CIL having production less than 5 million m³ (Coal+OB) per annum was also taken up from the year 2011 in phased manner at an interval of three years. In new technology adoption, CMPDIL has implemented drones for surveying and mapping applications. In order to expedite the application of drones in coal industry, CMPDIL has taken action for hiring of drones service providers for establishing its efficacy in various applications in coal industry. The first work against open tender for NCL has been completed and report submitted. The work awarded for SECL has been completed, report preparation is under progress. Validation studies for establishing efficacy of drone vis-à-vis 3DTLS was carried out in 50 pits/Dumps.

A Bid document for Moonidih Washery (2.5 Mtpa) to wash coal at 14% ash level of clean coal has been prepared and submitted to BCCL. Technical Evaluation of Bid document completed by CMPDIL and submitted to BCCL.

A Model Integrated Bid Document (RFQ and RFP) for setting up of Sand / Aggregate Segregation Plant (OB to sand) on Build-Operate Concept has been prepared for CIL and the same was approved by the CIL Board. Work order has been received for customization of bid document for OB to Sand/Aggregate Segregation plant from CCL. A Model Bid Document for renovation of existing Coking Coal Washeries of BCCL on Renovate-Operate-Maintain (ROM) Concept has also been prepared and submitted to CIL. The Document is approved by the CIL Board.

CMPDIL continued its efforts for facilitating commercial development of coal based non-conventional energy resources and





is pursuing commercial and R&D projects with National/International organizations. On behalf of CIL & its Subsidiaries, CMPDIL is pursuing development of Coalbed Methane (CBM) in CIL Areas. Initially, three CBM blocks, namely Jharia CBM Block-I (BCCL area), Raniganj CBM Block (ECL area) and Sohagpur CBM Block (SECL area) have been delineated by CMPDIL in CIL leasehold areas for commercial development of CBM. CMPDIL is the Principal Implementing Agency (PIA) for the development of CBM under Memorandum of Agreement (MoA) with respective subsidiary companies. Subsequent to approval of Project Feasibility Report (PFR) of Jharia CBM-I Block (BCCL Area), Raniganj CBM Block (ECL Area) & Sohagpur CBM Block (SECL Area), in-principally, by respective Subsidiary Board for commercial extraction of CBM through CBM Developer (CBMD), tenders were initially floated in May 2020 for Raniganj CBM Block and Jharia CBM Block which attracted no offers. Revised bid document was prepared by CMPDIL after incorporation of bidders' suggestions on Notice Inviting Offer (NIO) and Model Revenue Sharing Contract (MRSC) before re-tendering which was subsequently approved by the CIL FDs. Global Tenders for Raniganj CBM Block & Jharia CBM Block – I were once again floated in October 2020. One bid was received for Jharia CBM Block-I and techno-commercially qualified for award of work. Letter of Acceptance (LoA) has been issued to the successful bidder i.e. M/s Prabha Energy Private Limited on 8th June, 2021 and revenue sharing contract has been signed on 20th Sept., 2021. However, no bid was received for Raniganj CBM Block. Tender for Sohagpur CBM Block was floated later in December 2020 for selection of CBM Developer but no bid was received. Steps have also been taken up by CMPDIL/CIL

for identification of additional CBM blocks in BCCL and CCL command areas within CIL leasehold. A demonstration project on Coal Mine Methane drainage at Moonidih UG mine (BCCL) in Jharia Coalfield has been approved by BCCL Board.

In view of our Hon'ble Prime Minister, Shri Narendra Modi's vision to use 100 MT of coal for coal gasification by 2030 ECL, WCL, SECL and CCL intend for setting up a grass root Coal to Synthesis Gas and Potential Downstream Product(s) Plant. All four subsidiaries will utilize coal as the basic raw material for the production of methanol, ammonia, SNG, petrochemicals & other downstream products. Pre-Feasibility Report of all the four Coal Gasification Plants is under preparation and CMPDIL has been entrusted as Principle Implementing Agency (PIA) for carrying out the job related to the development of all the four gasification Projects at ECL, WCL, SECL and CCL.

CMPDIL is the Nodal Agency also to coordinate research activities funded under S&T Grant of Ministry of Coal (MoC) and R&D Board of CIL. Over the years, many of these projects have yielded considerable benefits resulting in operational improvement, safer working conditions, better resource recovery and protection of environment. While some research projects have produced tangible impact on the industry directly, there are others which have strengthened mine planning, design and technical services required by both operating mines and future mining projects. Efforts are continuing by CMPDIL to involve more and more research & academic institutions in India and abroad, coal/lignite producing companies for need based research



work beneficial to coal/lignite industry. At present, 40 research projects are under implementation.

As per directives of MoC, new thrust areas for future research in coal and lignite sectors have been identified. Some new areas to cater present needs and to address the complex operations of the coal industry have been included like application of Artificial Intelligence & Machine learning, Innovation & Indigenization (Atma-nirbhar Bharat) of Advance Technology, Creation of wealth from waste, etc. New thrust areas for coal research have been widely circulated among all leading research institutes of India with expectation of valuable projects proposals being submitted by them in coming years.

CMPDIL is also providing consultancy services for application of different Management System standards in all subsidiaries of Coal India Limited, like ISO 9001, ISO 14001, ISO 45001, ISO 50001, OHSAS 18001, ISO 37001 etc. CMPDIL with all its Regional Institutes have been licensed by Bureau of Indian Standards for fulfillment of the requirements of the new revised ISO 9001:2015 standard. The present IMS Manual of CMPDIL covers ISO 9001, ISO 14001, ISO 27001 and ISO 50001. CMPDIL (HQ), Ranchi has also implemented ISO 37001:2016 – Anti Bribery Management System and got certification against this International Standard by BIS, which is valid up to 17.01.2024.

CMPDIL has established MS Project Server through which CIL Projects are being monitored online by CIL & MoC. CMPDIL has developed portal on National Coal Index for MoC and also prepared Roadmap Report on establishing Coal Exchange. Mine Data Management System Portal (MDMS) was developed which depicts salient features of projects being monitoring by CIL. CMPDIL has

also been entrusted with the task of the implementation of e-Office for entire Coal India Limited. CMPDIL is in the process of introducing Data Analytics in the company. The process of identifying projects for the same is going on. Data Analytics is expected to enhance the information processing capabilities at CMPDIL in a big way. Features like Dynamic Dashboards and Predictive Analysis are likely to help the company in taking giant strides towards a technology-enabled work sphere. Subsequently, CMPDIL has plans to lend consultancy services in Data Analytics to the subsidiary companies of Coal India Limited.

1.3.10 MoU between CMPDIL & CIL

For every Financial Year CMPDIL enters into an MoU with Coal India Limited to set various parameter for physical and financial performances. The achievements were graded on a scale of 1 to 5; 'Excellent' being the grade 1.0 to 1.5 and 'Poor' as 4.51 to 5.0 till the FY 2014-15. For the FY 2009-10, CMPDIL was given the highest MoU rating of 1.00 (Excellent) and during FY 2014-2015, it was given Excellent (1.002) rating by Department of Public Enterprises which was the third best amongst all CPSEs and best in its syndicate. From the FY 2015-16 onwards, system of grading was changed from 5-point scale to percentage system. CMPDIL has been awarded with Excellent MoU rating from 2007-08 to 2019-20 except for two years, whereas, performance evaluation of MoU for FY 2020-21 is under process.

1.3.11 Risks and Concerns

- Obtaining approval for drilling in forest areas with enhanced number of borehole density and law and order problems are the major impediments in the way of drilling.
- In absence of commensurate growth in the regional exploration, sustenance



of the detailed drilling capacity seems difficult. Further, restrictions in exploration in forest area may pose problem in expansion programme.

- Reduction in fund by Ministry of Coal for Promotional Exploration and detailed drilling in non-CIL blocks as well as diminishing availability of drilling meterage in CIL blocks.
- Market competition from other domestic or international consultancy service providers in view of liberalisation of coal sector.
- In compliance of the provisions under the Companies Act and as per the CIL's guideline in respect of risk management, a Risk Management Committee with a Board level member as its head has been constituted at CMPDIL.

1.3.12 Internal Control Systems

- CMPDIL has robust internal control systems and processes in place for smooth and efficient conduct of business and complies with relevant laws and regulations.
- A comprehensive delegation of power exists for smooth decision making.
- Elaborate guidelines for preparation of accounts are followed consistently for uniform compliance.
- Audit committee is formed to keep a watch on compliance with internal control systems.
- Internal audits are conducted by Chartered Accountants/Cost Accountant Firms.
- Internal control framework has been developed identifying key controls and supervision of operational efficiency of designed key control by internal audit.
- Whistle Blower policy has been adopted and is being followed.

1.3.13 Material Development in Human Resources

CMPDIL being a public sector undertaking, salaries, wages and benefits of its employees are determined by Government of India and are fixed once in 5 years for coal workers and once in 10 years for executives. CMPDIL also provides continuous training and development opportunities to its employees, middle and senior management executives, other officers and management trainees. In addition, company also arranges external training programs and international training sessions outside India. The detailed report on this matter is included in the relevant portion of the Report.

1.3.14 Discussion on Financial performance with respect to Operational Performance

The total income of the company primarily comprises of income from consultancy services rendered to CIL & its subsidiaries and other companies, other incomes, and interest earned. The total income of Financial Year 2021-22 is Rs. 1238.26 crores as against Rs. 1508.70 crores in the previous year, thus registering an Decrease of 17.92%. The total expenditure of F.Y. 2021-22 is Rs. 872.22 Crores (Net of OCI) as against Rs. 1094.19 crores resulting in decrease of 20.3%.

Income tax expense comprises current tax expense and deferred tax expense or credit computed in accordance with the relevant provisions of the I.T Act, as amended. Provision for current taxes is recognized based on the estimated tax liability for allowances and exemptions in accordance with the I.T Act. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to timing differences. They are measured using tax rates and tax regulations enacted upto the balance sheet date. The



effect due to change in the tax rates is recognized in the financial statement of the relevant fiscal year of change of rate. Deferred tax assets in respect of carry forward losses are recognized to the extent that there is virtual certainty that sufficient future taxable income will be available against which such deferred tax asset can be realized.

The Profit Before Tax is Rs. 366.04 crores (Excluding OCI) as against Rs. 414.49 crores (Excluding OCI) in the previous year, decreased by Rs. 48.45 crores. The Profit After Tax is Rs. 282.12 crores (Excluding OCI) as against Rs. 316.96 crores (Excluding OCI) for the previous year, decreased by Rs. 34.84 crores.

1.4 Financial Overview of CMPDIL

During the year the company made a Profit After Tax of ₹ 282.12 Crores. The summary of the working results for the last three years is as follows:

(₹ In Crores)

Particulars	Performance of CMPDIL		
	F.Y. 2019-20	F.Y. 2020-21	F.Y. 2021-22
1. Profit before Taxes (₹ in Crore)	312.62	414.49	366.04
2. Profit after Taxes (₹ in Crore)	193.39	316.96	282.12
3. Turnover (₹ in Crore)	1381.31	1488.60	1208.43
4. Profit before tax to Turnover (%)	22.63	27.84	30.29
5. Earning per share (₹)	1354.27	2219.61	1975.63

1.4.1 Explanation or Comments on Statutory Auditors Report and Secretarial Audit Report

The report of Statutory Auditor remark made by the Statutory Auditor is enclosed as **Addendum-IV** to the report.

The report of Secretarial Auditor is enclosed as **Addendum-V** to the report.

1.4.2 Particulars of loans, guarantees or investments Under Section 186 of the Companies Act, 2013

As per Section 186 of the Companies Act, 2013 the company should disclose to the members in the financial statement the full particulars of the loans given, investment made or guarantee given or security provided and the purpose for which the loan or guarantee or security is proposed to be utilised by the recipient of the loan or guarantee or security.

No loans given, no investment made or guarantee given or security provided to any person, firm or company.

1.4.3 State of Company Affairs

The Paid Up Share Capital of the company stands at ₹142.80 crores against the Authorized Capital of ₹150 crores. The capital Reserve stands at ₹18.90 crores, general reserve stands at ₹29.95 crores and the surplus in P/L account stands at ₹822.87 crores (Retained earning +OCI) and totally constituting to the Shareholders fund ₹995.62 crores. Non-current liability ₹177.94 crores and current liabilities ₹510.03 crores.

The company owns net fixed assets of ₹194.45 Crores, Deferred tax assets (net) ₹66.97 crores, other non-current assets ₹57.84 crores (Including CWIP, Intangible, Intangible under development, other financial assets and other non current assets) and current assets ₹1373.56 crores.

The total revenue from operations and other incomes stands at ₹1238.26 crores and after meeting all expenditure and taxes, the net profit stands at ₹282.12 crores. The earning per share (face value ₹1000 per share) works out ₹1975.63

1.4.4 Capital Expenditure till 31st March, 2022

(₹ in Crores)

	2020-21	2021-22
Land & Building	14.23	5.51
Plant & Machine	22.01	24.92
Office equipment	0.12	0.05
Furniture	0.93	1.79
Telecom	0.03	0.01
Vehicle	1.04	-
Software	4.49	8.02
ERP under development	-	2.3
Total	42.85	42.60

*CAPEX Including GST for the FY 2021-22 is ₹48.34 crores.

*CAPEX Including GST upto December 2021 is ₹32.9 crores.

1.4.5 Declaration of Interim dividend

The Board approved Interim Dividend in its 256th Board Meeting held on 23rd March, 2022 for the Financial Year 2021-22, based on the working results for the period up to 31st December 2021, ₹60.59 Crore i.e. ₹424.30 Per Share (Dividend per share) be paid on 14,28,000 Equity shares of ₹1000/- each (Face Value of Share) out of current year's Profit After Tax and surplus in the Profit & Loss Account of the Company as on 31.12.2021 for the FY 2021-22.

1.4.6 Material changes after 31.03.2022

No material changes and commitments, affecting the Financial Position of the company have occurred between the end of the Financial Year of the company to which the Financial Statements relate and the date of the report.

1.5 Corporate Governance:

Corporate Governance is a set of relationships between a Company's

Management, its Board, its shareholders and other Stakeholders. It provides a principled process and structure through which the objectives of the company, the means of attaining the objectives and systems of monitoring performance are also set.

The report of Corporate Governance Certificate enclosed as **Addendum-III** to the report.

1.6 Company's Philosophy

The philosophy of the Company in relation to Corporate Governance is to ensure transparency, integrity, accountability, confidentiality, control, social responsibility, disclosures and reporting that conforms fully to laws, regulations and guidelines.

For effective implementation of the Corporate Governance practices, the company has a well-defined policy framework consisting of the following:

- Code of Conduct for Directors and Senior Management Personnel.
- Code of Conduct for prevention of Insider Trading by Coal India Limited.
- Whistle Blower Policy.
- Risk Management Plan.

1.7 Board of Directors

The business of the company is managed by the Board of Directors. The President determines, from time to time, the number of Directors of the company. The Directors are not required to hold any qualification shares. The Chairman, Functional Directors, Part-Time Official Directors and Non-Official Part-Time Directors are appointed by the President of India and they are paid salary, allowances, sitting fees etc. as determined by the President of India subject to provisions of the Companies Act, 2013 and terms and conditions of the appointment order.



A Size of the Board:

In terms of the Article of Association of the company, strength of our Board shall not be less than 3 Directors and not more than 15 Directors. These Directors may be Whole Time Directors /Functional Directors, Official Part-Time Directors or Non-Official Part-Time Directors/ Independent Directors.

B Composition of the Board of Directors category wise:

As on 31st March, 2022, the Board of Directors of CMPDIL comprises of 8 (Eight) Directors out of which 3 (Three) are Whole-time Directors including the Chairman-cum-Managing Director, Two Part-Time Official Directors and Three Part-Time Non-Official Directors (Includes one women Director). The Board is headed by an Executive Chairman, Shri Manoj Kumar.

The composition of Board of Directors as on 31st March, 2022 is as follows:

C Number of Board Meetings held and dates on which held

The Board of Directors is the supreme body of the company which oversees the overall function of the company. 12 (Twelve) Board meetings were held during the Financial Year 2021-22.

Sl. No.	Number of Meeting	Dates	Day	Place
1.	245 th	18.04.2021	Sunday	CMPDIL, Ranchi
2.	246 th	29.04.2021	Thursday	CMPDIL, Ranchi
3.	247 th	28.05.2021	Friday	CMPDIL, Ranchi
4.	248 th	19.07.2021	Monday	CMPDIL, Ranchi
5.	249 th	03.08.2021	Tuesday	CMPDIL, Ranchi
6.	250 th	24.09.2021	Friday	CIL, Kolkata
7.	251 st	30.10.2021	Saturday	CMPDIL, Ranchi
8.	252 nd	24.12.2021	Saturday	Puri
		25.12.2021	Sunday	Bhubaneswar
9.	253 rd	31.01.2022	Monday	CMPDIL, Ranchi

I. WHOLE-TIME DIRECTORS

a. Chairman-Cum-Managing Director

1. Shri Manoj Kumar

b. Functional Directors

1. Shri Rabindra Nath Jha
2. Shri Satendra Kumar Gomasta

II. Part-Time Official Directors

1. Shri B. Veera Reddy
2. Shri Mukesh Choudhary

III. Part-Time Non-Official Directors

1. Dr. Krishna Chandra Pandey
2. Smt Alka Panda
3. Shri Pramod Singh Chauhan

IV. Permanent Invitee

1. Shri Ajitesh Kumar



Sl. No.	Number of Meeting	Dates	Day	Place
10.	254 th	05.02.2022	Monday	CMPDIL, Ranchi
11.	255 th	25.02.2022	Friday	CMPDIL, Ranchi
12.	256 th	23.03.2022	Wednesday	CMPDIL, Ranchi

D Attendance of each Director at the Board Meetings

Details of number of Board Meetings attended by the each Director are as follows:

Sl. No.	Directors	No. of Board Meetings held during their tenure	No. of Board Meetings attended	Attended at the last AGM
Functional Directors				
1.	Shri Shekhar Saran	2	2	-
2.	Shri Manoj Kumar, CMD, WCL	2	2	-
3.	Shri Binay Dayal	2	2	Yes
4.	Shri Manoj Kumar	6	6	-
5.	Shri R.N. Jha	12	10	Yes
6.	Shri A.K. Rana	11	10	Yes
7.	Shri Satendra Kumar Gomasta	12	12	Yes
Part-Time Official Directors				
8.	Shri B.Veera Reddy	2	2	-
9.	Shri Binay Dayal	7	4	Yes
10.	Shri Mukesh Choudhary	12	10	-
Part-Time Non-Official Directors				
11.	Dr. Krishna Chandra Pandey	12	12	Yes
12.	Smt. Alka Panda	12	12	Yes
13.	Shri Pramod Singh Chauhan	12	12	Yes

Sl. No.8 was appointed as Nominee Director from Coal India Limited w.e.f. 24.02.2022.

Sl. No.9 was appointed as Nominee Director from Coal India Limited w.e.f. (From 09.11.2017 to 18.07.2021 and 04.10.2021 to 31.01.2022).

Sl. No.10 was appointed as Govt. Nominee Director from Ministry of Coal w.e.f. 26.05.2020.

E Disclosure of Interest as on 31st March, 2022.

Details of number of Board meetings attended by the each Director are as follows:

Sl. No.	Name of the Directors	Company in which interested	Nature of Interest i.e. Chairman, Director, Manager & Secretary
Functional Directors			
1.	Shri Manoj Kumar	NIL	-
2.	Shri R. N. Jha	NIL	-
3.	Shri S.K. Gomasta	Central Coalfields Limited	Director
Part-Time Official Directors			
4.	Shri B.Veera Reddy	1. CMPDI Limited	1. Nominee Director.
		2. Coal India Limited (Govt. of India Undertaking)	2. Director (Technical)
		3. Coal Lignite Urja Vikas Pvt. Limited	3. Nominee Director.
		4. Hindustan Urvarak & Rasayan Limited	4. Vice Chairman
		5. Bharat Coking Coal Limited	5. Nominee Director.
		6. South Eastern Coalfields Limited	6. Nominee Director.
		7. CIL Solar PV Limited	7. Director
		8. CIL Navikarniya Urja Limited	8. Director
		9. Talcher Fertilizers Ltd.	9. Nominee Director.
5.	Shri Mukesh Choudhary	NIL	-
Part-Time Non-Official Directors			
6.	Dr. Krishna Chandra Pandey	NIL	-
7.	Smt. Alka Panda	NIL	-
8.	Shri Pramod Singh Chauhan	Ashtvinayak Relators Pvt. Ltd.	Director

F. Information placed before the Board meeting

Board has complete access to any information within the Company. The information supplied to Board includes:

- ♦ Capital and Revenue Budgets.
- ♦ Quarterly and Annual Financial results of the Company.
- ♦ Periodic Review of the Performance of the Company.
- ♦ Periodic Review of availability & utilization of Heavy Machines.
- ♦ Periodic Report on Compliance of applicable Laws.

- ♦ Annual Report, Directors' Report etc.
- ♦ Minutes of the meeting of Audit Committee, CSR Committee, Nomination and Remuneration Committee and Risk Management Committee.
- ♦ Award of large contracts / Agreements
- ♦ Disclosure of Interest by Directors about Directorship and position occupied by them in other companies
- ♦ Declaration of Independence by Independent Director.
- ♦ Manpower Budget.
- ♦ Any other materially important information.

1.8 Brief Profile of the Directors:



Shri Manoj Kumar
(DIN **09225497**)

graduated in Mining Engineering from IIT-BHU, Varanasi in 1986 and also obtained First Class Mine Manager's

Certificate of Competency in the year 1990. He started his career in the coal industry from Korba area of South Eastern Coalfields Limited (SECL) in the year 1986 and has vast experience in field level working of both UG and OC mines.

He joined CMPDIL in 1998 and has worked in UG and OC mine planning and played a lead role in planning of India's biggest coal mines like Gevra, Kusumunda and Dipka Mines. He also has an administrative experience of 9 years as Regional Director of three RIs of CMPDIL, where he facilitated in making of future roadmap for NCL, SECL and CCL.

He was also HoD of CBM/CMM Clearing house of CMPDIL and got the first two Project Reports of CIL's CBM Blocks approved during his tenure. He was

awarded as the best General Manager at Coal India Level in the year 2019.

He visited Poland, Australia and Kazakhstan in official capacity and has exposure of global mining practices.

He is Chairman-cum-Managing Director, CMPDIL w.e.f. 04.10.2021.



Shri Binay Dayal (DIN 07367625) is Director (Technical), Coal India Limited and has also been entrusted with an Additional Charge as Chairman-cum-

Managing Director of CMPDIL w.e.f. 19.07.2021 (A/N).

Shri Dayal graduated in Mining Engineering in 1983 from Indian School of Mines (ISM), Dhanbad. He also obtained 1st Class Mine Manager's Certificate of Competency from DGMS, Dhanbad.

He joined as Junior Executive (Trainee) in Coal India and was posted at Central Saunda Colliery, Barkakana Area of Central Coalfields Limited in the year 1983. He worked in various capacities such as Head of Technical Services and Public Relations in CMPDIL (HQ), Regional Director, CMPDIL, Regional Institute – V, Bilaspur, General Manager (Projects & Planning Services) in South Eastern Coalfields Limited. He took over the charge of Director Technical (Engineering Services), CMPDIL on 1.12.2015. He was Director (Technical), (Planning & Design), CMPDIL w.e.f. 1.12.2015 to 11.10.2017.

Shri Dayal has vast experience in Corporate Planning and Public Relations activities. He has to his credit the Planning, Approval and Implementation of Mega Projects of South Eastern Coalfields Limited and enhancement of productivity of hi-tech drills deployed for detailed

exploration in Korba and Mand Raigarh coalfields. As General Manager (Project & Planning Services), South Eastern Coalfields Limited, he prepared the road map for coal production in respect of South Eastern Coalfields Limited as a part of 1 Billion tonne coal production exercise carried out by Coal India Limited.

He was nominated as Nodal Officer on behalf of South Eastern Coalfields Limited for Rail Corridors for evacuation of coal from Mand Raigarh, Korba Coalfields and represented South Eastern Coalfields Limited in the Board of Joint Venture Cos. viz. Chhattisgarh East Railway Limited and Chhattisgarh East-West Railway Limited (comprising of SECL, IRCON and Chhattisgarh State Government).

Shri Dayal attended as the member of Indian Contingent in the 5th Meeting of 'India-Australia Joint Working Group on Energy and Minerals' organized in Australia during the year 2007. Visited Chinese Coal Industry as participant of Advanced Management Training Programme in September 2010. He was Administrative Head on behalf of CMPDIL for EU Research Project on Green House Gas Recovery from mines of abandoned coal seam to conversion to energy (GHG2E) in 2011 & 2012. He participated in 22nd World Mining Congress & Expo 2011 organised in Istanbul, Turkey in 2011 and contributed technical paper. He has presented numerous technical papers related to coal industry. He is Life Member of MGMI & Computer Society of India (CSI).

He has been appointed as Official Part Time Director in CMPDIL w.e.f. 09.11.2017 to 18.07.2021 and 04.10.2021 to 31.01.2022. He has been entrusted Chairman-cum-Managing Director (Additional Charge) of CMPDIL from 19.07.2021 to 04.10.2021 (F/N).



Shri Manoj Kumar (DIN 08298541), is a Mining Engineer with distinction from the Indian School of Mines, Dhanbad 1985 batch. He obtained First Class Mine Manager's

Certificate of Competency in the year 1989. He did M. Tech. in Rock Excavation Engineering from ISM, Dhanbad in 1993-94 and is recipient of Gold Medal. He started his career in mining industry from WCL/SECL. He has been serving the coal industry for more than three decades. During this tenure, he served at WCL, SECL & ECL in various capacities.

He took charge as Chairman-cum-Managing Director, WCL on 1st of January, 2021. Prior to that, he was working as Director (Technical) in WCL since 29th November, 2018.

He is known for his expertise in difficult underground mining methods and Continuous Miner Technology. With his vast practical experience of underground and opencast coal mining, enriched with the experience of planning and contract management, he has been instrumental in growth and sustainability of production at the places he has worked. Apart from running business as usual, he keenly pursues out-of-box approach and implementing new initiatives. His vision and practical realization of implementing roadmap for consistently augmenting the coal production and achieving considerable growth in successive 2 years as Director (Technical) speaks of volume of his capability and determination to translate thought into reality.

Safety has always been his foremost priority throughout his career. His constant effort has helped WCL to appreciably control the injury rate and the Company been conferred with 7 National

Safety Awards from the Government of India in December 2019. Under his able leadership, the Company was bestowed with Coal Minister's Sustainability Award, in January 2021.

He has also been nominated as part-time Director on the Board of Singareni Collieries Company Limited. He is also holding the additional charge of Chairman-cum-Managing Director, CMPDI Ltd., with effect from 1st May 2021 to 19.07.2021 (A/N).

Shri Manoj Kumar possess rich blend of domestic experience of working at various places in the country beside international exposure to advanced Mining technologies while visiting USA, South Africa, Australia and Geneva.

He had been entrusted Chairman-cum-Managing Director, Additional Charge of CMPDIL from 01.05.2021 to 19.07.2021 (A/N).



Shri Shekhar Saran (DIN 06607551) was the Chairman of the Board of Central Mine Planning & Design Institute Limited, one of the largest Coal and Mineral Exploration

and Consultancy Company across the country. He has also been entrusted with the additional charge of Director (Technical) of Coal India Limited from 31.10.2016 to 09.11.2017 and is a Board member of CIL & BCCL also. Shri Saran is widely recognized for his path breaking and visionary contributions to the industry as Mechanized Mine Developer and transformed the landscape of the Mines by setting new standards in production and productivity.

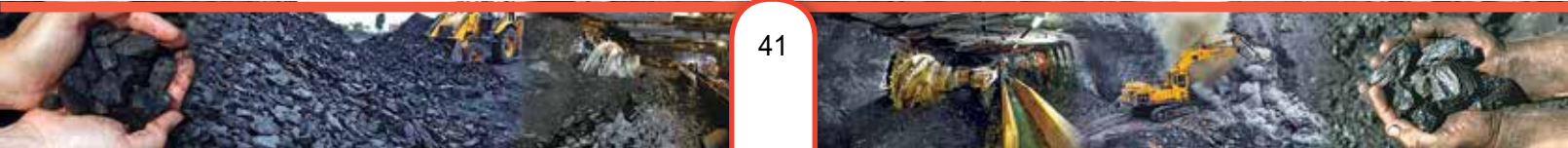
He joined CMPDIL as Director (Technical) in June, 2013 and looked after Coal Resource Development and then Planning

& Design till December, 2015. On 1st January, 2016, he took over as Chairman-cum-Managing Director of CMPDIL.

Shri Saran graduated from 1981 batch from the Deptt. of Mining Engineering, Institute of technology, Banaras Hindu University (BHU), now IIT (BHU). Being the topper of his batch he is the recipient of BHU Gold Medal as well as Robertson Medal from MGMI. Subsequently, during 2013-15, he has added to his credit Post-Graduate Programme in Management for Executives (PGEXP) from IIM, Ranchi.

Prior to joining CMPDIL, he worked at Sohagpur, Hasdeo and Bistrampur areas of SECL as JET to Sub area Manager, at Kunustoria, Satgram and Sodepur areas of ECL as Agent to CGM and lastly as CGM (P&P) at Eastern Coalfields Limited, Headquarter. He is having a rich experience of managing large opencast & underground Mines in different subsidiary companies. While working at SECL, he converted many manual UG mines into mechanized mines with introduction of roof bolting/ steel support. He presented number of technical papers in different seminars/ workshops. He had also been a rescue trained member for more than 26 years and had attended a number of rescue and recovery operations in underground mines.

He has visited a number of foreign countries like U.K, Germany, France, Netherlands, USA, Canada & Switzerland etc. He is an NCC Certificate holder & a good sportsman. He is widely credited with conceptualizing a unique and innovative techniques in Coal Mining Production. He has been a firm believer in corporate life and its superiority in the development of human resources. He is interested in Coal India Limited to the extent that he attends the Meeting of the Board of Director of Coal India Limited as a Permanent Invitee.



He was Chairman-cum-Managing Director, CMPDIL from 01.01.2016 to 30.04.2021 and also entrusted with the additional charge of Chairman-cum-Managing Director, BCCL from 18.04.2019 to 02.08.2019.



Shri Choudhary (DIN 07532479)

graduated with Bachelor's Degree in Mechanical Engineering, is also MBA and CFA degree

holder. He is an Officer of Indian Ordnance Factory Services (IOFS) since 1997.

He has joined as Director (CLD), Ministry of Coal, Govt. of India w.e.f. 17.03.2016.

He has experience of over 20 years during which he has served in different capacities viz. OFSC, Nagpur (1997-1999), VM/DGM. GSF, Kolkata (1999-2009), DGM, SAF, Kanpur (2009- 2010) and as Jt. GM/ Director, Kanpur (2010-2016).

He was Part-Time Official Director on the Board of NCL from 29.11.2019 to 17.03.2020 and was also appointed as Part-Time Official Director on the Board of SCCL from 11.01.2019 to 05.06.2020.

He was also appointed as Part-Time Official Director on the Board of CCL from 05.06.2020 to 02.01.2022.

He has been appointed as Official Part-Time Director on the Board of CMPDIL w.e.f. 26.05.2020.



Shri B. Veera Reddy (DIN 08679590)

has assumed the charge of Director (Technical), CIL w.e.f 1st February'2022. Prior to this he was Director (Technical)

Operations of Eastern Coalfields Limited from 01.01.2020 till 31.01.2022. He did his B. Tech in Mining from Kothagudem School

of Mines, Osmania University in the year 1986 and obtained First Class Managers Competency Certificate by DGMS in the year 1990. He has also completed Master of Technology in Mine Planning from Kothagudem School of Mines, Osmania University in the year 2000. Shri Reddy joined SCCL in the year 1987 and has more than 32 years of experience in coal mining, planning, procurement and operations. He worked in different capacities in the Mechanized Underground and Opencast mines and in Corporate Project Planning department of SCCL. Prior to his joining as Director (Technical) Operations of Eastern Coalfields Limited he worked as General Manager of Adriyala Longwall Project Area of the Singareni Collieries Company Limited.

He has been appointed as Official part-time Director on the Board of CMPDIL w.e.f. 24.02.2022.



Shri Rabindra Nath Jha (DIN 05195902),

graduated in Mining Engineering in 1985 from Indian School of Mines, Dhanbad. He obtained 1st Class Mine

Manager Competency Certificate (Coal) from DGMS, Dhanbad in 1990. He is also a Lead Quality System Auditor and has a Post Graduate Diploma in Export & Import Management.

He started his career in the deepest Coal Mine of India Chinakuri Pits 1 & 2 of Eastern Coal fields Limited. He worked in Longwall with stowing mine. After serving ECL for 7 years he joined CMPDIL in 1992. He worked in CMPDIL and its different Regional Institutes in Project Monitoring / Appraisal Division, Opencast Mining, Underground Mining and Environment Division.

He joined Mineral Exploration Corporation Limited as Director (Technical) in January,

2012.

- MECL became Mini Ratna (Category II) Company during his tenure.
- MECL started giving Dividend to Government of India in 2014 after a gap of 25 years.
- MECL successfully completed a Geothermal Project in Chumathan (Near Leh) for the DRDO in the year 2012.
- During his tenure the drilling enhanced from 2.96 Lakh mtr. in 2012 to 6.32 Lakh Mtr. in 2018 and the PAT increased from Rs. 10 Crs to Rs. 95 Crs.
- MECL was one of the earlier PSU to implement 3rd Pay Revision in March, 2018.
- MECL got 1st Prize of "HINDUSTAN RATNA" Award for best financial performance among Mini Ratna PSUs by HINDUSTAN TIMES in Feb'2018 by Hon'ble Minister of Coal Shri Piyush Goyal and Minister of Petroleum & Natural Gas Shri Dharmendra Pradhan.
- He got the First Prize of CEO with HR Orientation by World HR Congress in Mumbai in February' 2018.

He represented MECL and Ministry of Mines in various Committees related to Mineral Exploration and Development Mining. He had visited Canada, Dubai, Peru etc. and has presented numerous technical papers related to Mineral Exploration and Mining.

He has been appointed as Director (Technical) (Research, Development & Technology) in CMPDIL w.e.f. 30.01.2019.



Shri Satendra Kumar Gomasta (DIN 08714820) obtained Degree in Mining Engineering from Raipur Engineering College, Raipur in 1984.

He passed First Class Mine Manager's

certificate of competency in the year 1989. He also possesses a degree in Post Graduate in Marketing Management. He started his career in the coal industry from WCL in the year 1984. He has worked in different capacities in underground and opencast mining in the subsidiary companies of Coal India Limited namely WCL, SECL and NCL. His vast working experience of 16 years in opencast mines and 18 years in underground mines, will immensely benefit CMPDIL as well as entire coal mining industry.

He visited Switzerland and France in 2014 to attend Higher Management course. Shri Satendra Kumar Gomasta takes over the charge as Director (Technical) of CMPDIL on 25.02.2020. Prior to this, he served as General Manager (Mining), Northern Coalfields Limited, Singrauli.

He has also been entrusted with an Additional Charge of Director (Technical) of CCL w.e.f. 01.11.2021.

He was appointed as Director (Technical) (Coal Resource Development) on the Board of CMPDIL w.e.f. 25.02.2020.



Shri Anil Kumar Rana (DIN 08531295)

graduated in 1985 from I.T. BHU and is the holder of 1st Class Certificate of Competency under Indian Mines Act. He

also possesses a degree in Law and Diploma in Business Finance.

He joined CMPDIL in 1985. In his initial years of career he worked in Durgapur Rayatwari mine of WCL and Sudamdih incline mine of BCCL. He has been involved in:

- Preparation of Mining Plans and Project Reports for subsidiaries of CIL as well as for other organizations.
- Consultancy for underground metal

mines.

- Preparation of bid process document for OC and UG mines through MDO.
- Formulation of policy related reports like "Coal Vision 2025", "Action Plan for Enhancing Coal Production from Underground Mines of CIL" and "Report on Status of Coal blocks".

He has made significant contribution in assistance to MoC/Nominated Authority for coal block auction. He has also been project coordinator for three CIL R&D projects.

He visited underground and opencast coal mines of USA, People's Republic of China, Republic of South Africa. He has also visited Switzerland, Poland and Australia in the teams on various technology missions.

He was General Manager (CBM) before assuming the office of Director (Technical) where he initialized the process of operationalization of CBM blocks of CIL.

He has been awarded as the best General Manager of CMPDIL by CIL on the occasion of Coal India Foundation Day Awards, 2018.

He was appointed as Director (Technical) (Planning & Design) on the Board of CMPDIL w.e.f. 01.08.2019 to 28.02.2022.



Shri Pramod Singh Chauhan (DIN 01308337) is a graduate and by profession he is a Chartered Accountant in practice. He held the position of CICASA

Chairman at Agra Branch of CIRC of The Institute of Chartered Accountants of India in the year 2014-15. He also served as Chairman of Agra Branch of CIRC of The Institute of Chartered Accountants of India in the year 2015-16. He is a leading

practitioner of Agra and his areas of specialisation are Audit, Accounts, Income Tax & CSR. He served as Director at Prince Corporate Services Pvt. Ltd. Presently, he holds the position of Directorship at Ashtavinayak Realtors Pvt. Ltd. He is motivational speaker and his article have been published in various newspapers.

He is the member of the advisory committee for Civil Enclave, Airport Authority, Agra.

He is the member of planning and advisory committee for "Infrastructure Facilities and Educational Development" of Dr. Bheemrao Ambedkar University, Agra.

He has been appointed as non-official part time Director on the Board of CMPDIL w.e.f 16.10.2019.



Smt. Alka Panda (DIN 08524514) is an IAS Officer of 1983 batch, Orissa Cadre. She holds a Master's degree in Chemistry from the University of Rajasthan,

Jaipur. During her service career, she inter alia held positions as Secretary to Govt. of Orissa, Women and Child development dept, Agriculture dept, and Tribal welfare dept. Before her deputation to the Govt. of India in 2010, she was Chief Electoral Officer, Orissa. She superannuated in July 2017, as Director General of Bureau of Indian Standards, New Delhi in the rank equivalent to Secretary, Govt. of India.

She has been appointed as Non-Official Part Time Director on the Board of CMPDIL w.e.f 10.07.2019 to 09.07.2022.



Dr. Krishna Chandra Pandey (DIN 06706962) is a Post Graduate (M.A.) from Ruhelkhand University Bareilly in 1990 and

Ph.D. in 1996 from Agra University. He taught at Agra University Agra, Delhi Administration, and Makhanlal Chaturvedi National Journalism University, Bhopal.

He was Editor-in-chief of the monthly news magazine Makhanlal Chaturvedi National Journalism and Communication University, Bhopal from 2016 to 2018, in Panchnad Research Institute and Editing Panchnad Research Magazine from 2015 to 2017. He was a coordinator of training camps at the National Institute of Sanskrit (Government of India) in the Indian Heritage magazine from 2007 to 2019.

He also conducted the training camps of the National Conjunction of Bharat Sanskrit Parishad from 1996 to 2007 and served as General Secretary at Indraprastha Sahitya Bharati Delhi from 2015 to 2017.

He published 7 books and nearly 200 articles on writing and various subjects of All India Vidya Parishad and Vigyan Bharati.

The Sanskrit Samaradak Samman was conferred by the Government of Delhi in 1998. He was awarded the Best Teacher Award in 2005 and Samaj Ratna Samman in 2015. He was also awarded the Atal Literature Award in 2015.

At present he is an Advisor to the Department of Public Property Conservation at Prasar Bharati. He is preserving the traditionally popular folk songs of all language dialects all over the country. He is also writing on public literature and the Indian education system.

He was appointed as Non-official part time Director on the Board of CMPDIL w.e.f. 10.07.2019 to 09.07.2022.



Shri Ajitesh Kumar belongs to 2006 Batch of Central Power Engineering (Group-A) Service selected through Engineering

Service Examination, 2005 conducted by Union Public Service Commission. He did his B.Tech (Electrical Engineering) from Govind Bhallabh Pant University of Agriculture & Technology, Pantnagar (Uttarakhand).

He joined Central Electricity Authority, New Delhi in 2008 and was dealing in the appraisal of Detailed Project Reports of Hydro Electric project till 2016. In 2016 he was deputed to Tehri Hydro Development Corporation Limited (THDCL) for Hindas –on- Exposure to power plant operation and was posted in Power House of Tehri Hydro Electric Project, Uttarakhand.

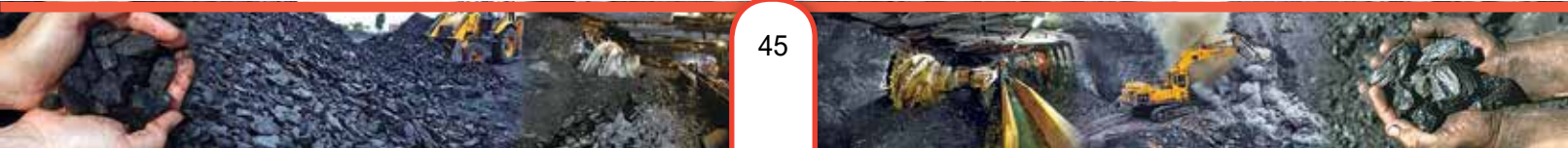
After returning back to CEA in 2017 he was posted in Power System Project Monitoring Division and worked there till September, 2019 dealing with matters of transmission projects awarded under Tariff Based Competitive Bidding Scheme and other transmission projects of national importance.

At present he is serving deputation under Central Staffing Scheme of Govt. of India as Director at Ministry of Coal and is responsible for allocation matters of coal / lignite blocks under Mine & Mineral (Development and Regulation) Act, 1957.

He has been appointed as Permanent Invitee on the Board of CMPDIL w.e.f 13.01.2020.

1.9 A statement on declaration given by Independent Directors under sub-section (6) of section 149;

Dr. Krishna Chandra Pandey, Smt. Alka Panda and Shri Pramod Singh Chauhan are the Independent Directors of the company. All the Independent Directors discharged their duties and declared that they meet the criteria of independence as provided in sub- section (6) of Section 149 of Companies Act, 2013 for the Financial Year 2021-22.



1.10 A. Audit Committee:

The primary function of the Audit Committee is to assist the Board of Directors in fulfilling its oversight responsibilities by reviewing the Financial Report, the Company's system of internal control regarding finance, Accounting and the Company's auditing, accounting and financial reporting process generally.

The Audit Committee reviews reports of the Internal Auditors, meets Statutory Auditors and discusses their findings, suggestions and other related matters and reviews major accounting policies followed by the Company.

B. Terms of Reference:

The terms of reference of the Audit Committee are in accordance with Section 177 of the Companies Act, 2013 and in accordance with the guidelines on Corporate Governance of CPSEs issued by the Ministry of Heavy Industries and Public Enterprises, Department of Public Enterprises.

The Terms of reference of Audit Committee will cover all commercial aspects of the organization inter-alia:

- i. Review of Financial Statement before submission to the Board.
- ii. Periodical review of internal control system.
- iii. Review of Government audit and Statutory Auditor's report.
- iv. Review of operational performance vis-à-vis standard parameters.
- v. Review of projects and other capital scheme.
- vi. Review of Internal Audit findings/ observations.
- vii. Development of a commensurate and effective Internal Audit function.

- viii. Special studies/investigation of any matter including issues referred by the Board.

C. Scope of Audit Committee:

The Scope / Role of Audit Committee is as follows:

1. Overseeing of the company's Financial Reporting process and the disclosure of its Financial Information to ensure that the Financial Statement is correct, sufficient and credible.
2. Recommending to the Board the fixation of Audit fees.
3. Approval of payment to Statutory Auditors for any other services rendered by the Statutory Auditors.
4. Reviewing, with the Management, the Annual Financial Statements before submission to the Board for approval, with particular reference to:
 - a. Matters required to be included in the Directors' Responsibility Statement to be included in Boards report in terms of Section 134(3) and 134(5) of the Companies Act, 2013.
 - b. Changes, if any, in accounting policies and practices and reasons for the same;
 - c. Major accounting entries involving estimates based on the exercise of judgment by management;
 - d. Significant adjustments made in the financial statement arising out of audit findings;
 - e. Compliance with legal requirements (applicable laws, regulation and Company policies) relating to Financial Statements;
 - f. Disclosure of any related party transactions; and

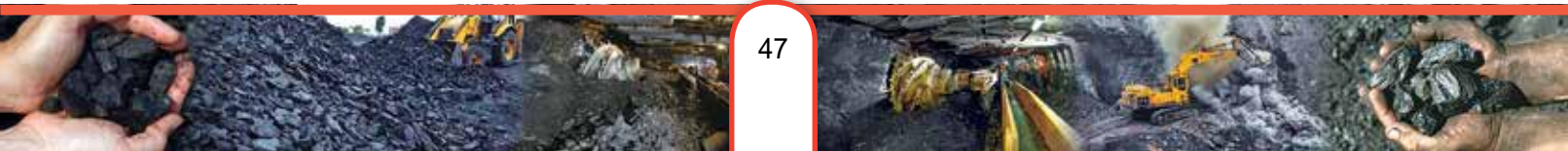
- g. Qualifications in the draft audit report.
5. Reviewing with the Management, the Quarterly Financial Statements before submission to the Board for approval.
 6. Reviewing with the Management, performance of Internal Auditors and adequacy of the internal control systems.
 7. Reviewing the adequacy of internal audit function, if any including the structure of the internal audit department, staffing and seniority of the official heading the department, reporting structure coverage and frequency of internal audit.
 8. Discussion with Internal Auditor and / or Auditors any significant findings and follow up thereon.
 9. Reviewing the findings of any internal investigations by the Internal Auditors / Auditors / agencies into matters where there is suspected fraud or irregularity or a failure of internal control system of a material nature and reporting the matter to the Board.
 10. Discussion with Statutory Auditors before the audit commences, about the nature and scope of audit as well as post-audit discussion to ascertain any area of concern.
 11. Reviewing the functioning of the Whistle Blower Mechanism.
 12. Reviewing the follow up action on the audit observations of the C&AG audit.
 13. Providing an open avenue of communication between the Independent Auditor, Internal Auditor and the Board of Directors.
 14. Reviewing and approving all related party transactions in the company. For this purpose, the Audit Committee

may designate a member who shall be responsible for reviewing related party transactions as contained in the Accounting Standard 18 issued by the Institute of Chartered Accountants of India.

15. Reviewing with the Independent Auditor the co-ordination of audit efforts to assure completeness of coverage, reduction of redundant efforts, and the effective use of all audit resources.
16. Reviewing with the Independent Auditors the adequacy of internal controls including computerized Information System Controls and security, and related findings and recommendations of the Independent Auditor and Internal Auditor, together with the management responses.
17. Consider and review with the management, Internal Auditor and Independent Auditor, the significant findings during the year including the status of previous audit recommendations and any difficulties encountered during audit work including any restrictions on the scope of activities or access to required information.
18. To look into the reasons for substantial defaults in the payment to the depositors, debenture holders, shareholders (in case of non- payment of declared dividends) and creditors.
19. To review the follow up action taken on the recommendations of Committee on Public Undertakings (COPU) of the Parliament.
20. Carrying, out any other function as mentioned in the terms of reference of the Audit Committee.

D. Powers of the Audit Committee:

The Audit Committee shall have powers commensurate with its role including the following:



1. To investigate any activity within its terms of reference.
2. To seek information from any employee.
3. To obtain outside legal or other professional advice.
4. To secure attendance of outsiders with relevant expertise, if considered necessary.
5. To protect Whistle Blowers.
6. To mitigate conflicts of interest by strengthening Auditors independent.
7. To ensure the effectiveness of internal controls and risk management.

E. Review of information by Audit Committee:

The Audit Committee shall review the following information:

- i. Management discussion and analysis of financial condition and results of operations;
- ii. Statement of related party transactions submitted by management;
- iii. Management letters/letters of internal control weaknesses issued by the Statutory Auditors;
- iv. Internal Audit reports relating to internal control weaknesses;
- v. The appointment and removal of the Chief Internal Auditor shall be placed before the Audit Committee; and
- vi. Certification / Declaration of Financial Statements by the Chief Executive / Chief Finance Officer.

1.11 Composition:

The Audit Committee consists of following members and is headed by a Non-Official Part-Time Director (Independent Director):

S.N.	Name of Director	Status	
1	Smt. Alka Panda	Chairperson	Independent Director
2	Shri B.Veera Reddy	Member	Official Part-Time Director
3	Shri Mukesh Choudhary	Member	Official Part-Time Director
4	Dr. Krishna Chandra Pandey	Member	Independent Director
5	Shri Pramod Singh Chauhan	Member	Independent Director
6	Shri S.K. Gomasta	Member	Functional Director

General Manager (Finance), HoD (IAD) and Statutory Auditors are invited to the Audit Committee Meeting. CFO is the Permanent Invitee and Company Secretary is the Secretary to the Committee. Senior functional executives are also invited as and when required to provide necessary clarification to the Committee. Internal Audit Department provide necessary support for holding and conducting the Audit Committee Meeting.

Meeting and Attendance:

11 (Eleven) meetings were held during the Financial Year 2021-22 on 18.04.2021, 29.04.2021, 28.05.2021, 19.07.2021, 03.08.2021, 23.09.2021, 30.10.2021, 25.12.2021, 05.02.2022, 25.02.2022 and 23.03.2022 respectively. The details of the Audit Committee meetings attended by members are as under:



S.N.	Name of Director	No. of Audit Committee Meetings held during their tenure	No. of Audit Committee Meetings attended
Functional Directors			
1	Shri A.K. Rana	10	9
2	Shri S.K. Gomasta	1	1
Part-Time Official Directors			
3	Shri Binay Dayal	6	4
4	Shri B. Veera Reddy	1	1
5	Shri Mukesh Choudhary	11	9
Part-Time Non-Official Directors			
6.	Smt. Alka Panda	11	11
7.	Dr. Krishna Chandra Pandey	11	11
8.	Shri Pramod Singh Chauhan	11	11

1.12 Nomination and Remuneration Committee

The Board constituted the Nomination & Remuneration Committee of CMPDIL in its 191st Board Meeting held on 30.12.2015 in order to follow the best practice of Corporate Governance and to comply with the guidelines of Corporate Governance and the listing agreement entered into by Coal India Limited with Stock Exchanges.

(A) Composition

The Board reconstituted the Nomination & Remuneration Committee of CMPDIL in its 234th Board meeting held on 09.06.2020 consists of following members and is headed by a Non-Official Part-Time Director (Independent Director):

S.N.	Name of Director	Status	
1	Smt. Alka Panda	Chairperson	Independent Director
2	Shri Mukesh Choudhary	Member	Official part-time Director
3	Dr. Krishna Chandra Pandey	Member	Independent Director
4	Shri Pramod Singh Chauhan	Member	Independent Director
5	Shri S.K. Gomasta	Member	Functional Director

Company Secretary will act as Secretary to this Committee and General Manager (P&A) would be the Nodal Officer of the Committee providing all services to the Committee.

(B) Meeting and Attendance:

No meeting was held during the Financial Year 2021-22.

1.13 Remuneration of Directors from April, 2021 to March, 2022:

All the Directors of the company are appointed by the President of India. The terms and conditions and the remuneration of all full time Functional Directors are decided by the President of India in terms of Articles of Association of the company / Coal India Limited.

(A) Functional Directors

The details of the Remuneration of the Functional Directors of the Company for the financial year April, 2021 to March, 2022 are as under:

(Figure in Rs)

Name	Designation	Gross Salary and Allowances	Perks (35% of Basic + Other Perks)	HRA	CMPF Employer's Contribution (PF+PENSION & CIL EDCPS)	Leave Encashment	PRP Advance / PRP	Gratuity	Medical expenses	TOTAL
Shri Manoj Kumar	CMD	14,09,264.24	5,73,213.04	-	3,07,516.00	-	9,70,725.00		48,720.00	33,09,438.28
Shri Shekhar Saran (Retd. On 30.04.2021)	CMD	2,75,730.00	81,508.00	-	71,663.00	19,99,042.50	19,96,710.0	20,00,000.00	34,358.00	64,59,011.50
Shri R.N. Jha	Director (Tech)	32,65,165.96	11,97,200.60	-	8,09,493.00	2,59,875.90	-		1,17,427.00	56,49,162.46
Shri A. K. Rana (Retd. On 28.02.2022)	Director (Tech)	34,63,560.20	13,44,518.00	-	8,60,387.00	8,60,387.00	3,06,317.00	20,00,000.00	7,27,775.00	95,99,563.40
Shri S.K. Gomasta	Director (Tech)	33,05,824.25	9,25,224.35	-	7,98,826.00	-	-		97,241.00	51,27,115.60

(B) Part-Time Official Directors

No remuneration is being paid to the Part-Time Official Directors by CMPDIL:-

1. Shri Mukesh Choudhary, Director (CLD) is the Govt. Nominee Director from the Ministry of Coal, New Delhi. His remuneration is being paid by the Ministry of Coal, Govt. of India.
2. Shri B.Veera Reddy, Director (Technical) is the Nominee Director from Coal India Limited, Kolkata and his remuneration is being paid by the Coal India Limited.

(C) Independent Directors

No remuneration is being paid to the Independent Directors of the Company except the sitting fees for attending the Board and Committee meetings at the rate fixed by the Coal India Ltd. Board of Directors within the ceiling fixed under the Companies Act, 2013. The details of the sitting fees paid to the Independent Directors during the F.Y. 2021-22 are given as under:

Sl. No.	Name of the Independent Directors	Sitting Fees paid for attending		Total (₹ in Lakh)
		Board Meetings (₹ in Lakh)	Committee Meetings (₹ in Lakh)	
1.	Dr. Krishna Chandra Pandey	2,40,000.00	3,80,000.00	6,20,000.00
2.	Smt. Alka Panda	2,40,000.00	3,80,000.00	6,20,000.00
3.	Shri Pramod Singh Chauhan	2,40,000.00	3,80,000.00	6,20,000.00
	Grand Total	7,20,000.00	11,40,000.00	18,60,000.00

1.14 Annual General Meetings:-

The details of the Annual General Meeting held during the last three years are as follows:



Details	2019-20 45 th AGM	2020-21 46 th AGM	2021-22 47 th AGM
Date	27.07.2020	28.07.2021	21.07.2022
Time	10:30 A.M.	10:15 A.M.	04:00 P.M.
Venue	At the Registered office of the company, Gondwana Place, Kanke Road, Ranchi, Jharkhand - 834031	At the Registered office of the company, Gondwana Place, Kanke Road, Ranchi, Jharkhand - 834031	At the Registered office of the company, Gondwana Place, Kanke Road, Ranchi, Jharkhand - 834031
Special Resolution	Nil	Nil	Nil

1.15 Extra Ordinary General Meeting

The details of the Extra Ordinary General Meeting held during the last three years are as follows:

Details	2019-20	2020-21, 11 th EGM	2021-22
Date	NIL	29.09.2020	NIL
Time		10:30 A.M	
Venue		At the Registered office of the company Gondwana Place, Kanke Road, Ranchi - 834 031 Jharkhand	
Special Resolution		Issue of Bonus Share	

1.16 Independent Directors Meeting :

As per the Companies Act, 2013, Independent Directors are required to hold at least one meeting in a year to discuss the following:

- Review the performance of Non-Independent Directors and the Board as a whole.
- Review the performance of the Chairperson of the company taking into account the views of Executive Directors and Non-executive Directors.
- Assess the quality, quantity and timeliness of flow of information between the company management and the Board that is necessary for the Board to effectively and reasonably perform their duties.

1(One) meeting of Independent Directors was held on 23.03.2022 during the Financial Year 2021-22 in which all the Independent Directors were present.

1.17 Disclosures:

• Materially Significant related party transactions:

The Company has not entered into any materially significant related party transactions with the Directors or the Senior Management Personnel or their relatives for the year ended 31st March, 2022 that may have potential conflict of interest of the company at the large.

No agenda was placed before the Board meetings held during the year 2021-22 in respect of any contract or arrangement with a related party.

As per related party transactions policy, any transactions between two Government Companies and transactions between holding Company and Subsidiary Company are exempted.

Contracts or Arrangements with related parties U/s 188 (1) is enclosed as **Addendum-VI**.

- **Details of compliance of Laws by the Company**

The Company is monitoring the compliance of various laws applicable to the Company and there is no adverse report for non-compliance by the Company, penalty, strictures imposed on the Company by any authority on any matter related to any guidelines issued by Government during the last three Financial Year is brought to the notice of the Company.

- **Access to the Audit Committee as per the Whistle Blower Policy:**

This policy is formulated to provide an opportunity to employees to report to the management instances of unethical behavior, actual or suspected, fraud or violation of the company's code of conduct and to the Audit Committee.

No personnel has been denied access to the Audit Committee as per the Whistle Blower Policy and no cases was reported under Whistle Blower Policy during the year.

- **Compliance of the guidelines on Corporate Governance:**

The requirements of these guidelines with respect of Board of Directors, Audit Committee, Disclosures, Reports and Code of Conduct etc. are complied with. However, the Guidelines like Subsidiary Companies, Training Policy etc. are uniformly considered by CIL for all its subsidiaries which are followed by CMPDIL also. A certificate from the Company Secretary, who is in whole-time practice with regard to compliance of conditions of Corporate Governance is annexed to this report as **Addendum- III**. The Company has

made communications with the Ministry of Coal, who is the appointing authority, for appointment of the required number of Independent Directors to comply with the provisions of the Companies Act, 2013 and DPE Guidelines.

- **Integrity Pact & IEM**

The Company has a Memorandum of Understanding (MoU) with Transparency International India (TII) for implementing an integrity Pact Programme focused on enhancing transparency in its business transactions, contracts and procurement process. Under the MoU, the Company is committed to implement the integrity Pact in all its major procurement and work contract activities. Two Independent External Monitors, being persons of eminence nominated by TII in consultation with the Central Vigilance Commission (CVC), monitor the activities. The Integrity Pact has strengthened the established systems and procedures by creating trust and has the full support of the CVC.

- **CEO/CFO Certification:**

The Chairman-cum-Managing Director /CEO and the General Manager (Finance)/CFO of the Company have furnished the "CEO/CFO Certification" for the Financial Year 2021-22 to the Board of Directors of the Company which is placed as **Addendum-II** to Directors' Report.

- **Code of Conduct for Directors and Senior Executives:**

The Code of Conduct for the Directors and Senior Management Personnel of the company has been laid down by the Board, which has been circulated to all the concerned and the same is also hosted on Intranet portal. The Directors and Senior Management personnel of the Company affirmed compliance with



the provisions of the Company's Code of Conduct for the financial year ended 31st March, 2022.

- **Details of Expenses incurred:**

No items of expenditure debited in the books of accounts, which are not for the purpose of the Business and no expenses debited which are personal in nature and incurred for the Board of Directors and top management, and the Company's Auditor had not reported any such occurrences.

- **Presidential Directives :**

No Presidential Directives was issued by the Central Government to CMPDIL during the Financial Year 2021-22.

1.18 Means of Communication

The Company communicates with its shareholder through its Annual Report, General Meetings and disclosures through its Website, Official journal "**Gondwana Bharati**", "**Mine Tech**" and publications in the Leading English Newspaper and also in local dailies.

In addition to above, the Annual Report and the quarterly results of the company and other important events were uploaded in the website of the company i.e. www.cmpdi.co.in Information and latest updates and announcements regarding the company can be accessed to the company website. In order to make the general public aware of the achievements of the company, press conference is also being held.

1.19 Audit Qualification

It is always the Company's endeavour to present unqualified Financial Statement.

Comments of the Comptroller & Auditor General of India under Companies Act, 2013 on the Accounts of the Company, for the Financial Year ended 31st March, 2022 is enclosed at **Addendum VIII**.

1.20 Training of Board Members

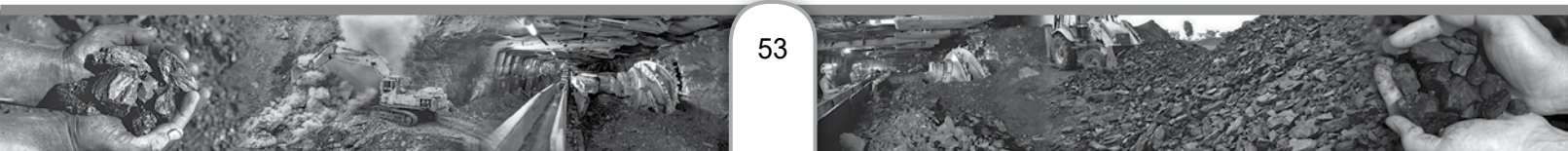
The Board of Directors were fully briefed on all business related matters, associated risks future strategies etc. of the company.

The Functional Directors are the head of the respective functional areas by virtue of their possessing the requisite expertise and experience. They are aware of the business model of the company as well as the risk profile of the company's business. The Part-Time Directors are also fully aware of the company's business model.

The Independent Directors are sponsored for training on Corporate Governance from time to time. All the Official Directors are sponsored for training both in India and abroad as per the policy of CIL. All the newly appointed Directors of the company are familiarized with the various aspects of the company like the constitution, Vision & Mission statement, core activities, Board procedures, Strategic directions etc. by way of detailed presentation, discussion etc.

1.21 Whistle Blower Policy

In order to strengthen the ethical behaviours of the employees of the company and promote the interest of different stake holders, the Whistle Blower Policy of CMPDIL was introduced during the year 2011-12 and Board was informed in its 163rd meeting held on 08.11.2011. This policy is formulated to provide an opportunity to employees to report to the management instances of unethical behavior, actual or suspected, fraud or violation of the company's code of conduct. Clause 49 of the Listing Agreement between listed Companies and the Stock Exchanges has been emended and is effective from 4th November, 2010. Clause 49 Inter alia, provides for a non-mandatory requirement for all listed companies to establish a mechanism called "**Whistle Blower Policy**". It is to provide necessary



safeguards for protection of employees from reprisals or victimization.

However, a disciplinary action against the Whistle Blower which occurs on account of poor job performance or misconduct by the Whistle Blower and which is independent of any disclosure made by the Whistle Blower shall not be protected under this policy.

1.22 Risk Management Committee

Risk Management Committee was constituted by CMPDIL Board of Directors in its 192nd Board Meeting held on 02.02.2016 and reconstituted by the Board in its 256th Board Meeting held on 23.03.2022.

A. Composition:

The Risk Management committee consists of following members and is headed by a Non-Official Part-Time Director:

S.N.	Name of Director	Status	
1	Dr. Krishna Chandra Pandey	Chairman	Independent Director
2	Smt. Alka Panda	Member	Independent Director
3	Shri Pramod Singh Chauhan	Member	Independent Director
4	Shri R.N. Jha	Member	Functional Director
5	Shri S.K. Gomasta	Member	Functional Director

Company Secretary will act as Secretary to this Committee and General Manager (E&M) would be the Nodal Officer of the Committee providing all services to the Committee.

B. Meeting and Attendance:

1 (One) meeting was held during the Financial Year 2021-22 on 23.03.2022. The details of the Risk Management Committee meeting attended by members are as under:

S.N.	Name of Director	Status	Number of meetings attended
1	Dr. Krishna Chandra Pandey	Chairman (w.e.f. 17.11.2019)	1
2	Smt. Alka Panda	Member (w.e.f. 10.07.2019)	1
3	Shri Pramod Singh Chauhan	Member (w.e.f. 17.11.2019)	1
4	Shri R.N. Jha	Member (w.e.f. 10.07.2019)	1
5	Shri A.K. Rana	Member (From 15.09.2020 to 28.02.2022)	-
6	Shri S.K. Gomasta	Member (w.e.f. 01.03.2022)	1

1.23 Code of Internal procedures and conduct for prevention of Insider Trading

Coal India Ltd., the holding company, has adopted code of Internal procedures and conduct for prevention of Insider Trading and dealing with securities of Coal India Ltd. with the objective of preventing purchase and / or sale of the shares of CIL by an insider on the basis of unpublished price sensitive information. This code has been adopted by CMPDIL. Under this code insiders are named as designated employees who are prevented to deal in the CIL's shares during the closure of trading window. To deal in securities beyond limit specified, permission of



Compliance Officer is required. All designated employees are also required to disclose related information periodically as defined in the code. Company Secretary has been designated as Compliance Officer for this code. The Code of Internal procedures and conduct for prevention of Insider Trading is also uploaded in the Intranet Website of CMPDIL.

1.24 Accountability of Directors

Memorandum of Understanding (MoU) between the management of CMPDIL and CIL / MoC, Govt. of India is signed before commencement of the ensuing Financial Year as laid down in the DPE Guidelines. Under this agreement, the company undertakes to achieve the target set in at the beginning of the year and it is intended to evaluate the performance of CMPDIL at the end of the year against the target fixed. It is done by adopting a system of “Five point scale” and “criteria weight” which result in calculation of “composite score”. The composite score is forwarded to DPE through CIL and the Administrative Ministry (MoC) for their ratification.

The MoU system enables to perform efficiently as there are a variety of parameters both financial and non-financial (Dynamic, Sectors specific and Enterprise specific parameters). This process helps immensely in fulfillment of the long ranging objectives and overall growth. The entire process also ensures transparency and accountability towards stakeholders.

1.25 Quarterly Reporting System on Compliance of Corporate Governance.

A quarterly reporting system has been developed by Ministry to be reported by the CPSEs to their respective Administrative Ministries. In compliance of this, CMPDIL has been submitting its Quarterly report regularly and timely to MoC.

1.26 Key Managerial Personnel

As per the provisions of section 203 of the Companies Act 2013, the Key Managerial Personnel as on 31st March, 2022 are:

Shri Manoj Kumar	- CEO
Shri R.N. Jha	- Director
Shri S.K. Gomasta	- Director
Shri P.K. Prasad	- CFO
Shri Abhishek Mundhra	- Company Secretary

1.27 CSR initiative at CMPDIL

Corporate Social Responsibility (CSR) and Sustainability is a company's commitment to its stakeholders to conduct business in an economically, socially and environmentally sustainable manner that is transparent and ethical. The thrust of CSR and Sustainability is on capacity building, empowerment of communities, inclusive socio-economic growth, environment protection, promotion of green and energy efficient technologies, development of backward regions, and upliftment of the marginalized and under-privileged sections of the society. The company has formulated its own CSR policy as per notification issued by Ministry of Corporate Affairs, Govt. of India on 27.02.2014 as well as DPEs guidelines and section 135 of Companies Act, 2013 and the rules made there under.



CSR & Sustainability, brings not only risks for the Mining industry, but also creates a set of opportunities. CSR & Sustainability can help companies secure their social license to operate, contribute in a meaningful way to sustainable development. CMPDIL reiterates its commitment to social responsibility towards CSR & sustainability by integrating social and environmental concerns in day-to-day business operations. Two tier decision making committees have been constituted in CMPDIL to implement its policies and programs.

Keeping in view the special nature of its business, CMPDIL initiated its CSR & Sustainability activities during 2021-22 which may be found in **Part-B** of the report.

1.28 Annual Return

The Annual Return of the company is available on our Website Link <https://www.cmpdi.co.in/annualrpt.php>

1.29 Conservation of Energy, Technology absorption, Foreign Exchange earnings and outgo.

The details regarding conservation of Energy, Technology absorption, Foreign Exchange earnings and outgo, is enclosed as Addendum to Directors' Report (**Addendum-I**).

1.30 Annual Evaluation of Board Committee and Directors Performance

As per section 134(3) (p) and Rule 8 of Companies (Accounts) Rules, 2014 in case of a listed company and every other public company having such paid-up share capital of Rs. 25 crores or more calculated at the end of the preceding Financial Year shall include, in the report by its Board of Directors, a statement indicating the manner in which formal annual evaluation has been made by the Board of its own performance and that of its committees and individual Directors.

The paid up share capital of CMPDIL is Rs. 142.80 crores and registered as Private Limited Company and not listed with any Stock Exchange and accordingly the company is not required to evaluate the performance of its Board, Committee and individual Directors.

Further, annual evaluation by the Board of its own performance and that of committees and individual did not take place, in the absence of appointment of two more Independent Directors on the Board of the Company. However, annual evaluation would be done on the basis of the policy which is expected to be formulated by Coal India Limited for the Holding Company and its Subsidiary Companies.

PART: B

ANNUAL PERFORMANCE OVERVIEW

1.0 Geological Exploration & Drilling

1.0.1 CMPDIL continued to carry out coal exploration activities in 2021-22 also, in CIL, Non-CIL, Promotional, NMET and Captive Mining blocks. Exploration in CIL blocks was taken up to cater the needs of project planning/production support of subsidiaries of CIL whereas exploration in Non-CIL/Captive Mining blocks was undertaken to facilitate allotment of coal blocks to prospective entrepreneurs. Promotional and NMET funded Exploration was taken up in new unexplored identified blocks.

1.0.2 CMPDIL has substantially improved the capacity of drilling during XI & XII Five Year plan period. As against the achievement of 2.09 lakh metre in 2007-08, CMPDIL has achieved 4.98 lakh metre in 2011-12(Terminal year of XI Plan), 11.26 lakh meter in 2016-17(Terminal year of XII Plan) & 12.48 lakh m in 2020-21 through departmental resources and outsourcing. During 2021-22, 7.91 lakh m has been drilled against the target of 7.50 lakh m. The reduction of target was mainly due to reduction in fund provided by MoC, Gol under Central Sector Scheme (CSS) for Non-CIL and Promotional blocks.

For capacity expansion of departmental drilling, 7 new hydrostatic drills have been received and deployed as additional drills since January'18, enhancing the capacity of drills to 67. Out of 67 drills 25 drills are hydrostatic and 42 are mechanical.

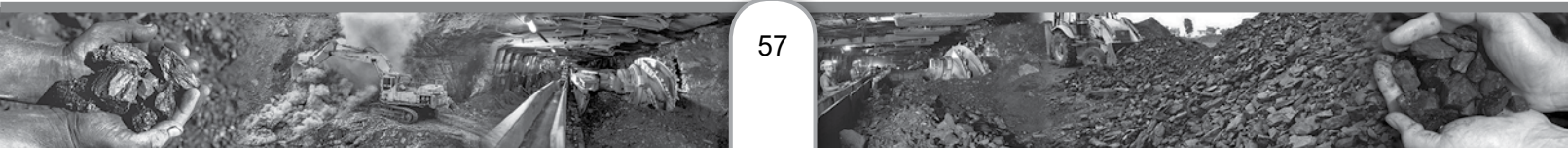
In 2021-22, a total of about 3.47 lakh m is drilled through outsourcing, out of which about 2.06 lakh m. is through tendering, about 1.40 lakh m. through MoU with MECL and about 0.01 lakh m. through State Govt.

1.1 Drilling Performance in 2021-22:

1.1.1 CMPDIL deployed its departmental resources for detailed exploration of CIL, Non-CIL, Promotional and Captive blocks whereas State Govt. of Odisha deployed resources in CIL blocks only. Besides, six contractual agencies have also deployed resources for detailed drilling/exploration in CIL, Non-CIL, Promotional & NMET blocks. A total of 120 to 140 drills were deployed in 2021-22 out of which 67 were departmental drills.

CMPDIL continued the technical supervision of Promotional Exploration work undertaken by MECL in Coal Sector (CIL Areas) in 6 blocks. Apart from it, DGM (Nagaland) has also undertaken Promotional Exploration in 2 block & CMPDIL in 14 blocks in Coal Sector on behalf of MoC. Promotional Exploration work undertaken by MECL in Lignite Sector in 3 blocks. A total of **1.69 lakh m.** of Promotional (Regional) drilling was carried out in **Coal (1.55 lakh m.) & Lignite (0.14 lakh m)** during 2021-22 through CMPDIL.

1.1.2 In 2021-22, CMPDIL and its contractual/MoU agencies took up exploratory drilling in **128 blocks/mines** of **23 coalfields** situated in **11 States**. Out of 128 blocks/mines, **37 were Non-CIL/Consultancy / R & D** blocks, **64 CIL** blocks/mines and **25 Promotional** blocks and **2 NMET** blocks. These coalfields are Raniganj (9 blocks), Rajmahal (3 blocks), Jharia (1 block), East Bokaro (1 block), North Karanpura (7 blocks), South Karanpura (2 blocks), Wardha Valley(12 blocks), Bander (1 block), Pathakeda (3 blocks), Kamptee (4 blocks) Umrer (1 block), Sohagpur (18 blocks), Mand Raigarh (19 blocks), Korba (3 blocks), Sonhat (1 block), Tatapani-Ramkola- (8 blocks), Singrauli (8 blocks), Talcher (10 blocks), Ib Valley (10 blocks), Singrimari (1



block), Ramnad (2 blocks), Nagaur (2 blocks) and Melak-Tsurang (Jhanji-Disai) Valley (2 blocks). Departmental drills of CMPDIL took up exploratory drilling in **79 blocks/mines** whereas contractual/MoU agencies drilled in **49 blocks/mines**.

- 1.1.3 Under Promotional (Regional) Exploration Programme, MECL has undertaken Regional drilling in **9 coal blocks** (Mand Raigarh = 2, Singrauli = 1, Sohagpur =

2, Tatapani-Ramkola = 1, Nagaur = 2 & Ramnad = 1). DGM (Nagaland) has also undertaken 2 block for regional drilling in Coal Sector. CMPDIL has undertaken Promotional Exploration in 14 blocks, 1 in Rajmahal CF, 3 in Tatapani Ramkola CF, 1 in Umrer CF, 1 in Wardha Valley CF, 1 in Sohagpur CF, 3 in Mand-Raigarh CF, 1 in Singrimari CF, 2 in Ib Valley CF and 1 in Talcher CF.

The overall performance of exploratory drilling in 2021-22 is given below:

(Figures in Lakh meter)

Agency	Target 2021-22	Performance of Exploratory Drilling in 2021-22			Achieved Prev. Year: 2020-21	Growth %
		Achieved	Achieved (%)	+/-		
A. Detailed Drilling Undertaken by CMPDIL :						
I. Departmental	4.710	4.438	94%	-0.272	4.849	-8%
II. OUTSOURCING						
State Govts.	0.020	0.011	54%	-0.009	0.014	-20%
MECL (MOU)	0.665	1.396	210%	0.731	4.992	-72%
Tendering	2.105	2.065	98%	-0.040	2.629	- 21%
Total Outsourcing	2.790	3.472	124%	0.682	7.635	- 55%
Grand Total A*	7.500	7.911	105%	0.411	12.484	-37%
B. Promotional / NMET Drilling by CMPDIL, MECL, DGM (Nagaland) & DGM (Assam):						
I. COAL SECTOR						
MECL	0.225	0.353	157%	0.128	0.667	-47%
DGM, Nagaland	0.020	0.015	76%	-0.005	0.010	46%
DGM, Assam	0.000	0.000	0%	-0.000	0.000	00%
CMPDIL	1.135	1.184	104%	0.049	0.442	168%
Total Coal:	1.380	1.552	112%	0.172	1.120	38%
II. LIGNITE SECTOR						
MECL	0.120	0.140	117%	0.020	0.229	-39%
Total Lignite	0.120	0.140	117%	0.020	0.229	-39%
Grand Total B	1.500	1.691	113%	0.191	1.349	25%

* In 2021-22, out of total detailed drilling of about 7.911 lakh m, 2.593 lakh m drilled in Non-CIL blocks.

In 2021-22, CMPDIL achieved its departmental and overall drilling targets by **94%** and **105%** respectively. The performance of departmental drilling has a negative growth of 8% and recording average operational drills productivity of about 580 m/drill/month. The negative growth is mainly due to major local issue at RI-VII, where 7 rigs were idle for 35 days, premature closure of drilling in 24 blocks by MoC due to reduction of fund resulting in long shifting & re-organisation of drill deployment, total 7 days naxal band in RI-III area, COVID-19 lockdown, sporadic outbreak of COVID-19, containment zone, non-availability of spares & repairing work in nearby operation area, unseasonal heavy rains etc.

1.1.4 Drilling in Non-CIL/Captive Mining Blocks:

In 2021-22, a total of **1.90 lakh m** of drilling was targeted in Non-CIL blocks (departmental = 0.725 lakh m, outsourcing = 1.175 lakh m). As against this, a total of **2.59 lakh m** has been achieved, out of which the departmental drills of CMPDIL have carried out **0.88 lakh m** of exploratory drilling whereas **1.71 lakh m** has been achieved through outsourcing.

Apart from above exploration work, CMPDIL has provided preliminary geological information of existing Captive Mining Blocks to MoC for allotment purpose. After the process of allotment is over, original Geological Report is provided by CMPDIL to allottee on payment of total cost of exploration.

As per guidelines issued by MoC, CMPDIL is certifying the plan submitted by the allocates, the geological co-ordinates used in preparation of mining plan is in accordance with vesting order & geological co-ordinates covered by mining plan do not encroached any other adjacent block.

1.2 Hydrogeology

1.2.1 Hydrogeology Section of CMPDIL has been accredited as GWCO (Ground Water Consultant Organization) by QCI-NABET in Dec'2021.

1.2.2 A total of 132 Comprehensive Hydrogeological Reports for NoC from CGWA submitted to Ministry of Jal Shakti (CGWA) during F.Y. 2021-22. This is statutory Report with effect from Sept' 2020 by Gazette Notification of CGWA for Mining Sector.

1.2.3 Hydrogeological Report of 25 nos. of mining projects submitted for preparation of EIA/EMP during F.Y. 2021-22.

1.2.4 A total of 98 other Hydrogeological studies / chapter for Piezometers / Damage

Assessment Report / Geological Reports / Project Reports / Slope Stability reports / Water supply schemes were prepared during 2021-22.

1.2.5 Outside Consultancy job and new type of studies -

(1) Comprehensive Hydrogeological Report for NoC from CGWA of 06 nos. of Mines (Banduhurang, Bagjata, Bhatin, Jaduguda, Mahuldih and Turamdih mine) of UCIL (Uranium Corporation of India Ltd.) has been prepared and submitted during F.Y. 2021-22.

(2) Hydrogeological study of Bore wells near Damodar River for Permeability and Seepage of water of River Damodar w.r.t. Cluster-X mines of BCCL, Dhanbad, Jharkhand.

1.2.6 Hydrogeology section is also carrying out groundwater level and quality-monitoring job with submission of Annual report for compliance of MoEF&CC, New Delhi cleared projects of CIL (ECL, BCCL & NCL).

1.2.7 Hydrogeology Section of Exploration Division is under process of MoU (approved by CMPDIL Board) with empaneled experts as par CGWA list for execution of 3D Groundwater Modelling of Gevra OCP, SECL. This further creates scope for accreditation of CMPDIL as a GW Modelling Consultant in near future.

1.3 Geological Reports:

1.3.1 In 2021-22, 25 Geological Reports are prepared on the basis of detailed exploration conducted in previous years. The prepared Geological Reports, have upgraded about **8.8 Billion Tonnes** of additional coal resources to 'Proved/measured' category.

1.3.2 Under Promotional Exploration Programme, 6 Geological Reports on coal blocks has been submitted, established about **5.7 Billion Tonnes** of coal resources



in 'Indicated' & 'Inferred' categories, above specified thickness.

1.4 Geophysical Surveys:

1.4.1 Geophysical Logging:

Boreholes drilled for exploration purposes were geophysically logged to get the in-situ information of different strata encountered in the boreholes. During the year **2021-22**, a total of **4,57,634.02** meters of geophysical logging has been carried out for this purpose in CIL and Non-CIL projects with multi-parametric geophysical logging equipment. Out of this, **1, 92,024.60** depth meters of logging was done by 8 departmental geophysical logging units and **2,65,609.42** meters of logging was carried out by contractual agencies.

1.4.2 Surface Geophysical Surveys:

CMPDIL has also undertaken Electrical Resistivity & Magnetic Survey in CIL and Non-CIL blocks for delineation of In-crop of coal seams, delineation of dykes and ground water investigation. A total of **56.474 line km** of Resistivity imaging, **22** Vertical Electrical Sounding (VES), **204 gravity stations** in Gravity survey and **108.268 line km** of Magnetic survey have been carried out in 2021-22 for such purpose and With Vibroseis, a total of **7.945 line km** of 2D Seismic Survey has been carried out in Shahpur (Senduri) Block, Sohagpur Coalfield through departmental and through Outsourcing a total of **222.04 line Km** of 2D seismic Survey and **74.71 sq. km.** of 3D seismic survey and total of **163.44 line km** of Resistivity Imaging have been carried out.

1.4.3 Reports:

A total of **32** reports, out of which **14** (scheduled reports) and **18** (unscheduled

reports) Geophysical reports, have been submitted during the year **2021-22**. This includes three report on Seismic Survey, seven on resistivity imaging survey, one on Integrated Geophysical survey, four report on geophysical logging, one notes on geophysical surface survey, three geophysical chapter for GR and thirteen geophysical chapter for DGR.

1.5 Geosystem:

Identification of Prognosticated Coal Bearing Area : A joint exercise was carried out by CMPDIL along with GSI in August 2020 and revisited in March 2021 to identify the Prognosticated Coal Bearing Area in India. A total of 43 nos. of Gondwana Coalfields and 19 nos. of Tertiary Coalfields have been studied.

The total basinal area of Gondwana Coalfields & Tertiary Coalfields is about 66967 sq km, out of which a total of about 32970 sq km has been assessed to be prognosticated coal bearing area. The total regional exploration area is about 19320 sq km, about 270 sq km area is under regional exploration and about 13380 sq km area is available for regional exploration. About 446 probable areas for non-coking coal and about 14 probable areas for coking coal have been identified for future exploration. The exercise was documented and a Report was prepared in January, 2022.

Identification of probable areas for coking and non-coking coal blocks within the prognosticated coal bearing area.

Mine Summary Preparation for Auctioning of coal blocks : Mine summary of approx. 100 coal blocks have been prepared for Auction of Coal Blocks. And clarification provided to the various queries of Bidders regarding block allocation/ auction.

Mine Summary Preparation for Auctioning of lignite coal blocks :

Block boundary re-work exercise was done due to considerable difference in explored area and lignite development area for identification of lignite coal blocks and subsequently 9 lignite coal blocks were identified for auction. Mine dossier for 9 lignite coal blocks were prepared and DSS/ESZ analysis was carried out for these blocks.

Addressed to issues related to CIL Subsidiaries : Addressed issues related to leasehold boundary/ DGPS surveyed block boundary of ECL and MCL.

Boundary certification Non-CIL blocks : Boundary certification of Non-CIL coal blocks for 15 blocks for coal block allottee.

Updating OCBIS application in Web : OCBIS application in Web was updated for 45 coalfields with latest block boundary, with new attribute like allocation status of Non-CIL blocks etc.

Joint exercise with DGH for coal block overlap issues with active CBM blocks : Active CBM block boundaries have been revisited in light of overlap issues with coal blocks and jointly finalized CBM block boundaries have been updated in database and OCBIS.

Certification of non-coal bearing area for outside Client : 2 nos. of reports on certification of non-coal bearing area for outside clients.

2.0 COAL BED METHANE (CBM)

2.1 Collaborative commercial development of CBM in Jharia & Raniganj coalfields by the consortium of CIL & ONGC

The Govt. has allotted two CBM blocks in 2002 to the consortium of ONGC–CIL on nomination basis for commercial development of CBM.viz.

i. Raniganj North CBM Block in Raniganj Coalfield

Petroleum Mining Lease for CBM in Raniganj North CBM Block over an area of 311.79 Sq.km. (approx.) has been granted provisionally to ONGC-CIL Consortium vide Govt. of West Bengal letter dated 10th February, 2020.

ii. Jharia CBM Block in Jharia coalfield

Petroleum Mining Lease (PML) for Jharia CBM block has been granted by Govt. of Jharkhand in July' 2015 whereas Environmental Clearance has been granted in April, 2017.

In Raniganj North CBM Block, ONGC is presently preparing revised Feasibility Report to update and modify the techno-economic viability of Raniganj North CBM Block.

Operating Committee (OC) of Jharia CBM Block, in its 35th meeting held on 10th Dec'2019 approved Implementation of Phase- I of Revised Feasibility Report of Jharia CBM Block (36 development locations in Stage-1 covering Parbatpur, Aluara and Mahal Sectors). Also, it has been approved by CIL Board on 10th Jan'2020.

Jharia CBM Block entered into Commercial phase with the spudding of first Development well JH# 16 (JHDH) on 05.01.2021. 28 well locations have been released upto January, 2022 Five (05) Development wells have been drilled upto February, 2022.

2.2 CBM and Shale gas related studies under Promotional Exploration during 2021-22

CMPDIL is carrying out studies related to "Assessment of Coalbed Methane Gas-



in-Place Resource of Indian Coalfields/ Lignite fields" through boreholes drilled during exploration. During the year 2021-22 target has been achieved by completing the studies in eight boreholes for CBM and five boreholes for Shale gas that included all relevant laboratory analyses. This study creates the data base for assessment of CBM & Shale gas potentiality and facilitate delineation of more blocks for CBM & Shale gas development.

2.3 Commercial development of Coalbed Methane (CBM) / Coal Mine Methane (CMM)

Govt. of India MoP&NG vide notification dated 8th May, 2018 has issued modified guidelines for exploration and exploitation of CBM by CIL and its subsidiaries from coal bearing areas for which they possess mining lease and granted deemed lease for CBM extraction.

A Memorandum of Agreement (**MoA**) has been signed between **BCCL & CMPDIL, ECL & CMPDIL** and **SECL & CMPDIL** for operationalization of CBM Development through CBM Developer (CBMD), where CMPDIL is the Principal Implementing Agency (PIA).

Model Global Bid Documents (Notice Inviting Offer (NIO), Model Revenue Sharing Contract (MRSC) has been **prepared** based on DGH's Open Acreage Licensing Policy (OALP) Documents and views received in Pre-NIT Meet (28th Nov, 2019) and deliberation with MoC, MoP&NG and DGH. Model Global Bid Document has been approved by CIL Board. Initially CBM Development have been initiated in following identified prospective CBM blocks:

- a) **Jharia CBM Block – I (BCCL Area)**
: A Block of about 26.55 Sq. Km

clubbing Kapuria, Moonidih, Jarma, Singra Blocks has been delineated for commercial development in the mining leasehold area of BCCL having CBM resource of 25.2 BCM.

Project feasibility report titled "**Jharia CBM/CMM Block, Jharia Coalfields (under coal mining leasehold of BCCL)**" prepared based on Reservoir Modeling & Techno-Economic studies submitted to BCCL and the same has been approved by BCCL Board.

The Global Bid Document (Notice Inviting Offer (NIO) & Model Revenue Sharing Contract (MRSC)) was published for Jharia CBM Block-I on 15th May, 2020. However, no offer was received.

Revised Global Bid Document prepared after incorporation of bidders' suggestions and was approved by the CIL FDs vide minutes of CIL FDs Meeting issued on 27th Oct. 2020.

Global Bid Document (NIO & MRSC) for Jharia CBM Block-I was again published on 30th October, 2020. Bid was opened on 06th Jan, 2021.

Only One bid has been received for Jharia CBM Block-I and technically qualified for award of work. The Letter of Acceptance (LoA) was issued on 8th June 2021 and revenue sharing contract has been signed on 20th Sep, 2021. The project is under Exploration phase and environment management plan (EMP) is under process.

- b) **Raniganj CMM Block (ECL Area):**
An area of 33 Sq. Km under mining leaseholds of Sripur, Satgram and Kunustoria Areas of ECL in Raniganj Coalfield has been delineated for commercial development of CMM. Project feasibility report has been



prepared based on Reservoir Modeling & Techno-Economic studies and submitted to ECL and the same has been approved by ECL Board.

The Global Bid Document (Notice Inviting Offer (NIO) & Model Revenue Sharing Contract (MRSC)) was published for Raniganj CBM Block on 15th May, 2020. However, no offer was received.

Revised Global Bid Document prepared after incorporation of bidders' suggestions and was approved by the CIL FDs vide minutes of CIL FDs Meeting issued on 27th Oct. 2020.

Global Bid Document (NIO & MRSC) for Raniganj CBM Block was again published on 30th October, 2020. Bid was opened on 06th Jan, 2021. However, no bid was received.

A stakeholders meet was held by CMPDIL on 10th March, 2021 through video-conference to obtain the views prospective bidders/CBM operators on Notice Inviting Offer (NIO) and Model Revenue Sharing Contract (MRSC). Another stakeholder's meet chaired by JS (Coal) was held at Ministry of Coal, Govt. of India, on 26th March, 2021.

Based on the views/suggestion of the stake holder's global bid document was modified and approved by CIL FD's. Modified global bid document was published on 9th June, 2021 and bid was opened on 10th Aug, 2021. However no bid was received.

It is proposed to develop Raniganj CBM Block with ONGC (operator) as a contiguous block of ONGC-CIL JV and the exercise for this is under process.

- c) **Sohagpur CBM Block (SECL Area) :**
An area of 51 Sq Km having resource of 0.53 BCM under command areas of SECL in Sohagpur Coalfield has been

delineated for CBM development. Project Feasibility Report (PFR) was prepared based on Reservoir Modeling & Techno-Economic studies and submitted to SECL and the same has been approved by SECL Board.

- d) The Global Bid Document (Notice Inviting Offer (NIO) & Model Revenue Sharing Contract (MRSC)) for Extraction of Coalbed Methane from Sohagpur CBM Block-I through CBM Developer (CBMD) was published on 12th Dec, 2020. Bid was opened on 05th Feb, 2021, however no bid was received.

A stakeholders meet was held by CMPDIL on 10th March, 2021 through video-conference to obtain the views prospective bidders/CBM operators on Notice Inviting Offer (NIO) and Model Revenue Sharing Contract (MRSC). Another stakeholder's meet chaired by JS (Coal) was held at Ministry of Coal, Govt. of India, on 26th March, 2021.

Based on the views/suggestion of the stake holder's global bid document was modified and approved by CIL FD's. Modified global bid document was published on 9th June, 2021 and bid was opened on 10th Aug, 2021. However no bid was received.

2.4 CMM/CBM Clearinghouse in India

A CMM/CBM clearinghouse was established at CMPDIL, Ranchi under the aegis of Ministry of Coal and USEPA on 17th November, 2008 with financial support from Coal India Ltd. on behalf of Ministry of Coal and US EPA. The clearinghouse is functioning as the nodal agency for collection and sharing of information on CMM/CBM related data of the country and help in the commercial development of CMM Projects in India by public/private participation, technological



collaboration and bringing financial investment opportunities.

After completion of initial three years term it was extended twice for three years terms. Further extension was renewed in 2018 by US EPA for additional three years i.e.; 2018-2021.

An International Webinar on CBM Resource-Reserve Assessment was successfully organized on 29th Sep, 2020 through video conferencing.

2.5 Coal Gasification :

CMPDIL is Principal Implementing Agency (PIA) for the coal gasification projects at CIL and its subsidiaries.

Initially following 4 coal gasification projects has been undertaken:

a) SECL (Mahamaya SCG Project) :

South Eastern Coalfields Limited (SECL) planned to establish Coal to Ammonia Plant at Mahamaya, Chhattisgarh with the capacity of 2200 MTPD for utilizing Coal as a basic raw material for the production of Ammonia.

Pre-Feasibility Report (PFR) was prepared by M/s PDIL and same was approved by the CoFDs. M/s PDIL was selected as Technical consultant through tendering. Tender for selection of BOO processor has been floated on 31st January, 2022 and last date for bid submission is 28th April, 2022

Pre-NIT meeting was held among the prospective bidders through VC on 24th Feb, 2022

b) ECL (Shilpanchal Pariyojana SCG Project):

Eastern Coalfields Limited (ECL) planned for setting up a grass root

Coal to Methanol Plant at Bahadurpur - Raniganj, West Bardhaman (W.B.) with the capacity of 2000 MTPD for utilizing Coal as a basic raw material for the production of Methanol.

Pre-Feasibility Report (PFR) was prepared by M/s PDIL and same was approved by the CoFDs. M/s PDIL was selected as Technical consultant through tendering. Tender for selection of BOO processor has been floated on 31st January, 2022 and last date for bid submission is 04th May, 2022.

Road show cum Pre-NIT meeting was organized under the chairmanship of Addn. Secretary (MoC) on 2nd March, 2022 through VC.

c) WCL (Project Utkarsh SCG Project) :

Western Coalfields Limited (WCL) planned to establish a Coal-to-Ammonium-nitrate (Melt) Plant at Juna Kunada Opencast Mine and Chargaon OC Mine (abandoned pits) of Majri Area, WCL located in Bhadravati Tashil – Chandrapur district of Maharashtra with the capacity of 2000 MTPD for utilizing Coal as a basic raw material for the production of Ammonium Nitrate.

Pre-Feasibility Report (PFR) was prepared by M/s PDIL and the same was approved by the WCL's Board. Engagement of M/s EIL as technical consultant, on nomination basis has been done . Preparation of tender for selection of BOO processor is being prepared by EIL and tender is expected to be floated in May, 2022.

d) CCL (Project Ashoka SCG Project):

In the review meeting taken by Secretary (Coal) under diversification

plan of MoC on 11.08.2021, it has been decided to change end product to ammonium nitrate (melt). M/s. PDIL has submitted Draft Pre-Feasibility Report for Ammonium Nitrate on 02.12.2021 and it is under finalization.

2.6 Exploring possibility of partnership with BHEL for gasification of high ash coal:

1. In the Steering Committee Meeting on Indian Coal Gasification Mission held on 15th Dec. 2021 at 12:00 PM at NITI Aayog, it was decided to explore possibility of partnership between CIL and BHEL w.r.t. Surface Coal Gasification (SCG) projects of CIL as BHEL has developed indigenous Fluidized Bed Gasifier for high ash Coal Gasification.
2. In pursuance to this decision, a technical team from CIL & CMPDIL has been constituted and team visited the SCG demo plants of BHEL at Hyderabad & Trichy.
3. The team submitted its report to the competent authority on their onsite due diligence with an outlook to explore the possibility of upscaling of the technology from pilot to commercial level.
4. BHEL has been requested to prepare the Pre-Feasibility report for production of Ammonium Nitrate from high ash coal (40%) using their indigenously developed technology along with suggested scaling up (i.e. gasifier with coal feed of about 2000 TPD).



2.7 S&T and R&D Projects on Coalbed Methane & Coal Gasification

Sl. No.	Description	Start Date	Completion Date	Project cost	Implementing agencies	Status of Work
1.	S&T Project on “CBM Reserve Estimation for Indian coalfields”	25 th Feb, 2014	23 rd March, 2022	Rs.2069.91 Lakhs	IEST, Shibpur (Principal) NGRI, Hyderabad CMPDIL, Ranchi TCE, Kolkata	Drilling of 05 Boreholes has been completed by CMPDIL in locations provided by NGRI based on 3D Seismic survey. Field Desorption Studies, Adsorption Isotherm analysis and various Coal Characterization tests have been completed by CMPDIL as per project proposal. TCE, Kolkata has prepared 3D Geological model based on the data generated through 3D Seismic survey and drilling of boreholes. Reservoir simulation study is being taken up by IEST, Shibpur.
2.	S&T Project on “Capacity Building for Extraction of CMM Resource within CIL Command Areas”	21 st Mar, 2016	22 nd June 2022	Approved Project cost is Rs. 2392.79 Lakh in which equipment cost is Rs. 934.32 Lakh.	CMPDIL, Ranchi -Principal CSIRO, Australia	The Collaborative Understanding for execution of the Project signed between CSIRO and CMPDIL on 22 nd December, 2016. The project completion date is 22 nd June, 2022. Activities of Phase-4 & Phase-5 is undertaken concurrently. The draft project report has been prepared and is under finalization.
3.	R&D project on "Bench Scale Study on reducing ash content (mineral matter) from Washery Grade Coking Coal and high ash Non-Coking Coal through oil agglomeration"	01 st Oct, 2020	31 st March, 2022	Rs. 53.62 lakh (CMPDIL- 17.46lakh)	CSIR-NML, Jamshedpur CMPDIL, Ranchi	Completed all the activities related to bench scale study on reducing ash content from 7 different grade of coal (Coking as well as Non-Coking) and in depth scientific investigations has already been completed.. Procurement process has not yet been completed till date. Purchase order will be released within this month (February 2022). M/s Gon Engineering will be getting the order.



Sl. No.	Description	Start Date	Completion Date	Project cost	Implementing agencies	Status of Work
4.	S&T project on "Modeling and design of indirect coal gasification reactor for high ash Indian coals".	1 st Dec. 2021	30 th Dec. 2022	Rs.72.07 lakh (CMPDIL 17.70 lakh)	IIT Madras, CMPDIL, Ranchi	Following activities has been carried out at IIT Chennai : 1. Heat and mass balance estimates have been carried out. 2. Simulations using ANSYS FLUENT have been carried out to understand the residence time required for heating sand particles (bed material) in fluidized bed using flue gases. 3. Draft designs for cold flow models are under process.
5.	Restart of Project as per decision of R&D Board : "High ash coal gasification and associated upstream and downstream process (Coal to Chemicals , CTC)"	This project deliberated in 31 st meeting of CIL R&D Board held on 03.09.2021 .The Board advised IIT-ISM, Dhanbad to continue the project with BHEL and sign MoU with BHEL .The Board also directed to submit the detailed project proposal elaborating the role and responsibilities of all implementing agencies , final expenditure made till date, fund requirement to each agency and use of each equipment procured under the project so far by IIT-ISM , Dhanbad and IIT – Roorkee for reconsideration in Apex Committee. Till now proposal with BHEL has not been submitted by IIT-ISM.				

3. PROJECT PLANNING & DESIGN

As prioritized by Subsidiary Companies of Coal India Limited, preparation of Project Reports (PR) for new/expansion/reorganisation mines was carried out during the year 2021-22 for building additional coal production capacity to the tune of 69 Mty. Revision of Project Reports/ Cost Estimates for projects was also taken up along with new PRs.

In addition to above, the following jobs were also undertaken:

- Preparation of Conceptual/Feasibility Reports, Tender Documents, Contract Documents, Evaluation of Bids, etc. for new/existing coal washeries.
- Environment Management Plan (EMP).
- Operational plans for OC mines.
- Mining Plans and Mine Closure Plans of OC and UG mines.
- Mine capacity assessment of opencast and underground mines of CIL.
- Various technical studies relating to operation of opencast & underground mines.
- Performance analysis of HEMM operating in OC mines of CIL.

- Model Bid Documents on MDO mode for Underground mines, Opencast mines, discontinued mines and regionally explored Opencast Coal Blocks.
- Carbon Footprint Analysis.
- Sand replenishment study.
- Detailed design and drawings, NIT, tender scrutiny, etc.

During the year 2021-22, expert consultancy services were also provided to Subsidiary Companies of Coal India Limited in the field of Environmental Management and Monitoring, Remote Sensing, Energy Audit (Diesel & Electrical) and Benchmarking of Opencast mines, Physico-mechanical tests on Rock and Coal Samples, Subsidence Studies, Strata Control, Non-Destructive Testing (NDT), Controlled Blasting & Vibration Studies and Explosive Utilisation, Ventilation/Gas Survey of UG mines, Mining Electronics, Petrography Study on coal samples, Coal Core Processing & Analysis, Washability tests, OBR Survey, Man Riding System, Carrying capacity of coal mining areas, Slope Stability Study, Effluent/Sewerage Treatment Plants, Mine Closure Auditing, etc.

During the year 2021-22, a total of 269 reports have been prepared. The break-up of reports prepared has been given below :

REPORTS	Nos.
Geological Reports	25
Project Reports	30
Draft EMPs/Form-I/IV/VI	50
Other Studies	164
TOTAL	269

Detail of reports prepared during the period 2021-22 are given below:

LIST OF COMPLETED REPORTS DURING 2021-22

Regional Institute/HQ		Name of the Reports	
Geological Reports:			
RI-I	1.	Gopalpur Kanyapur	
	2.	Itapara (Revised)	
RI-III	1.	Patratu (Non-CIL)	
RI-IV	1.	Yekona-I (South)	
RI-V	1.	Mahan North & South	
RI-VI	1.	Sarai East (Non-CIL)	
RI-VII	1.	Balbhadra West Extension	
	2.	Ramachandi (Non-CIL)	
	3.	Dip Extn. of Samleshawari	
Contractual	1.	Kabitirtha (Non-CIL)	
	2.	Kosla West (Non-CIL)	
	3.	Naheriya Dhankasa (Dip Side)	
	4.	Lalganj (Non-CIL)	
	5.	Sunuri (Non-CIL)	
	6.	Tatapani-II	
	7.	Kharkharee	
	8.	Chalkari Extension - Angwali	
	9.	Gourangdih South	
	10.	Penganga Deep	
	11.	Jamui (Non-CIL)	
	12.	West of Shahdol (Non-CIL)	
	13.	Arjuni West (Non-CIL)	
	14.	Nabasan (Non-CIL)	
	15.	Junkundar	
	16.	Gondbahera Ujheni East (Non-CIL)	
Project Reports:			
RI-I	1.	Gopinathpur UG	
	2.	Recast PR of Pandaveswar Dalurband (UG+OC)	
	3.	Bhanora West UG	
RI-II	1.	NT-ST Kujama OC	
RI-III	1.	Govindpur Ph-II Expn. OC	
	2.	Sayal D OC	
	3.	Tokisud North OCP of M/s NMDC	
	4.	Kalyani-Tarmi OC	
	5.	Tapin OC	
RI-IV	1.	Shivani OC Recast	
	2.	Amalgamated Niljai Bellora Naigaon Deep OC	
	3.	Saoner I Expn. UG	

Regional Institute/HQ	Name of the Reports	
	4.	Tawa III UG
	5.	Ballarpur NW OC Recast
	6.	Amalgamated Ukni Pimplegaon OC
	7.	Singhori Deep OC
	8.	Konda Hardola MDO PR
RI-V	1.	Damini UG to OC Recast
	2.	Ambika OC MDO PR
	3.	Ketki UG MDO PR
RI-VI	1.	Tulsi OC, SECL
	2.	Bandha Block of M/s EMIL
RI-VII	1.	Balabhadra OC MDO
	2.	Higula OC Expn. RPR
HQ	1.	Tirap OC RPR, NEC
	2.	FR of Banai, M/s NTPC
	3.	FR of Bhalumuda, M/s NTPC
	4.	Kayada Chaudhar Gariapani OC MDO PR, ECL
	5.	Hura 'C' OC RCE, ECL
	6.	PR of underground workings of Dongri Buzurg Mine of M/s MOIL
Environment Management Plan:		
Form-I (including Form IV & VI)		
RI-I	1.	Mohanpur Expn. OCP (EC Validity Extension)
	2.	Cluster No. 8 (Group of 7 Mines of ECL) (Form IV EC Amendment)
	3.	Cluster No. 10 (Group of 14 Mines of ECL) (Form IV EC Amendment)
RI-II	1.	Patherdih NLW Coal Washery (Form VI)
RI-III	1.	Patratu ABC
	2.	Jarangdih OCP
	3.	Ashok OCP
	4.	Rohini Expn. OCP
RI-IV	1.	Ghonsa Expn. (Deep) OC
	2.	Gauri-Pauni Expansion OC (Phase-I)
	3.	Sand Mining in Wardha river
	4.	Makardhokra-I Expn. OC
	5.	Mungoli Nirguda Expn. OC
RI-V	1.	Gevra Expn. OCP
	2.	Enhancement of Gayatri UG
	3.	Gayatri UG (Form-VI Revalidation of EC)
RI-VI	1.	Bina OCP
	2.	Nigahi OCP (Expn.)
	3.	Amlohri OCP (Form-IV) (Amendment in EC)
	4.	Khadia OCP Expn.
	5.	Jhingurda OCP (Amendment in EC)

Regional Institute/HQ	Name of the Reports	
	6.	Jayant OC (Form-I under 7.2)
RI-VII	1.	Subhadra OCP
	2.	Baitarni (W) OCP
HQ	1.	Jharia (ECL) CBM Block
Draft EMP		
RI-III	1.	Kedla OCP
	2.	Kathara OCP
	3.	Giddi-A OCP
	4.	Bhurkunda Colliery
	5.	Pundi OCP
	6.	Sirka OCP
RI-IV	1.	Waghoda UG (Revalidation of Existing EC)
	2.	Urdhan OC (Revalidation of Existing EC)
	3.	Makardhokra-I Expn. OC (Addendum EIA/EMP under 7.2(i) for expansion)
	4.	Mungoli Nirguda Expn. OC (Addendum EIA/EMP under 7.2(i) for expansion)
	5.	Gauri-Pauni Expn. OC
	6.	Tawa II Expn. UG
RI-V	1.	Jhiria West OC
RI-VI	1.	Bina OCP (Addendum EIA/EMP under 7.2 (i) for expansion)
	2.	Amlohri OCP (For inclusion of OB to Sand) (Addendum EIA/EMP)
	3.	Block-B OC
	4.	Jayant OC (Addendum EIA/EMP under 7.2 (ii))
RI-VII	1.	Integrated Lakhanpur, Belpahar & Lilari OC
	2.	Garjanbahal OC Expn. (Addendum EIA/EMP under 7.2(i) for expansion)
	3.	Kulda Expn OCP
	4.	Bhubaneswari OC (Amendment in EC)
	5.	Balaram OCP Expn.
HQ	1.	Moonidih Coking Coal Washery
	2.	Giridih OCP (New - Violation)
	3.	Kabribad OCP (New -Violation)

4.0 COAL & MINERAL PREPARATION

Coal & Mineral Preparation Division offers technical consultancy services for Greenfield Coal washeries, Mineral beneficiation plant and Modification / Modernization of existing plants. These services encompass exhaustive laboratory studies, Preparation of Project Report (PR), Conceptual Report (CR),



bid process management, contract document preparation and assistance in award of works followed by scrutiny of drawings during project execution. It also renders wide range of R&D services and corporate support. CMP Lab has received National Accreditation Board for Testing and Calibration Laboratories (NABL) accreditation in 2019. Re-accreditation of CMP Lab is under progress, such reorganized body is considered as the first essential step for facilitating mutual acceptance of test results.

The Division is equipped with ISO certified modern laboratory with latest and sophisticated equipment for carrying out laboratory scale studies.

The following major jobs have been completed by this Division during the year 2020-2021.

A. CONCEPTUAL REPORTS.

- Topa Washery (4.0Mty), CCL.
- New Rajrappa(3.0Mty), CCL.
- Kulda Deshaling Plant (4.0 Mty), MCL.

B. CONCEPTUAL REPORTS (OUTSIDE JOB).

- CR for setting up of Gare Palma-II washery, Mand-Raigarh Area. MAHAGENCO

C. TENDER DOCUMENT.

- On BOO Concept
 - ✓ Bid Document (RFQ alongwith RFP) in e-tendering mode of New Rajrappa washery, CCL.
- On BO Concept
 - ✓ Model Integrated Bid Doc (RFQ+ RFP) for setting up of the sand segregation plant (OB to Sand), CIL.

- ✓ Bid Document (RFQ alongwith RFP) in e-tendering mode for setting up of Sand/Aggregate Segregation plant, Govindpur UG project at Kathara Area, CCL.

• On ROM Concept

- ✓ Draft Bid Document of Old Madhuban washery.

• On Turnkey Concept.

- ✓ Bid document for Renovation work of old Moonidih washery.

D. EVALUATION OF TENDER DOCUMENT

- i. New Moonidih washery (2.5Mty), BCCL- July 2021.
- ii. New Moonidih washery (2.5Mty), BCCL-December 2021.

E. CONTRACT DOCUMENT

Contract Document for New Kathra Washery (3.0 Mty), CCL was prepared on BOO basis.

F. SCRUTINIZING OF CONSTRUCTION DRAWINGS

- Bhojudih washery , BCCL : 225 numbers
- Patherdih-II, BCCL : 48 numbers
- Ib-Vally Lakhampur Washery, MCL : 100 numbers

5.0 PROJECT APPRAISAL

- 5.1. Scrutiny and appraisal of 29 nos. of draft PRs/RPRs/EPRs prepared by Regional Institutes and HQ Departments of CMPDIL during the year 2021-22 and coordination for their presentation at CMPDIL(HQ) before finalization of the Draft report.
- 5.2. Scrutiny and appraisal of 18 nos. of conceptual notes prepared by Regional Institutes during the year



2021-22, and coordination for their assessment by Director (T/P&D) along with OC/UMD Department and PAD for finalizing the main technical parameters before preparation of the draft PR/RPR/EPR.

- 5.3. Updating of status of implementation of ongoing projects costing more than Rs. 500 crores and with capacity more than 3 Mty, especially with respect to actions under CMPDIL's responsibility, for the Secretary (Coal)'s Quarterly/Monthly Projects Review Meetings.
- 5.4. Monitoring of formulation and approval of PRs for projects identified under the 1 BT Program of CIL for 2024-25.

6.0 OPEN CAST MINING

6.1. Following major jobs were completed during 2021-22

- Technical feasibility report for Talaipalli coal block, M/s NTPC & M/s Thriveni Earth Movers Pvt. Ltd.
- Preparation of Minex Model for Suliyari block & estimation of coal & OB volumes from stage plans of first 5 years for M/s APMDC Ltd.

6.2. Major CIL Jobs completed are:

- PR for Kyada Chaudhar Gariapani (4.0 Mty), ECL.
- Revised Cost Estimate for Hura 'C' (3.0 Mty), ECL.
- Mining Plan and mine closure plan for combined cluster IV and cluster V mines of BCCL: AKWMC mine, Sendra Banijora mine, Mudidih mine, Kankanee mine and AGKC mine.
- Operational Plan of Khadia OCP (16 Mtpa), NCL.
- Revised Cost Estimate for Tikak Extension OCP (0.20 Mty), NEC.

- Revised and updated Project Report for Tirap OC (0.60 Mty), NEC.
- Preparation of Abridged PR & MDO Document for Chuperbita OCP.
- Preparation of MDO document (including Exp. + Mining) for dipside of Rajmahal OC (Lalmatia A & B Block).
- Slope stability analysis/Scientific study for Tirap Opencast Project (NEC).
- Assessment of Capacity of opencast mines of CIL – Projection as on 01.04.2022.
- Assessment of capacity and capacity utilization for Opencast mines of CIL during 2020-21.
- Performance analysis of HEMM during 2020-21 for all Subsidiaries of CIL.
- Performance analysis of Dumpers & Excavators and Summary of CIL during 2020-21.
- Analysis of Specific consumption in Opencast mines of CIL during 2020-21 for explosive, Diesel & Electric-power.
- Technical and Financial appraisal of Project Reports.

6.3. Other jobs includes:

- Technical appraisal of Mining Plans for Ministry of Coal.
- Cost comparison between Vibro-Ripper vis-à-vis Drilling & Blasting in Hingula and Kaniha Opencast Projects of MCL (Case Study).
- Preliminary assessment of 7 GRs from GSI for Government of Bihar of non-coal minerals.
- Estimation of specific diesel consumption (SDC) for 35 major



mines based on assessment of mine capacity – Projections as on 01.04.2021.

6.4. Achievement of Opencast Division in 2021-22:

- Accreditation of CMPDIL as Mine Plan Preparing Agency (MPPA) by QCI-NABET
- Organized a Workshop on Technology Roadmap For Coal Sector under the aegis of Ministry of Coal and Coal India Limited to accelerate technological advancements across all the platforms in coal sector, fast tracking implementation of projects and enhance safety.

6.5. The new Large-specimen, High-stress Direct Shear Machine (LDSM):

To overcome limitations with current shear strength estimation mechanisms and to estimate mine dump shear strength behavior especially at very high stresses, a direct shear machine for coarse grained dump specimens and high applied stresses has been designed and constructed at the Central Mine Planning and Design Institute Limited (CMPDIL) under CIL R&D project.

The LDSM is able to test at a much larger scale, in terms of both specimen size and stresses, than has ever previously been achieved using a direct shear machine for geotechnical testing of coarse grained dump material. The LDSM is installed at newly built geodetic testing facility and ready for final commissioning within a month.

Indian Geotechnical society has conferred the new LDSM with the

“IGS -Mr. H.C. Verma Diamond Jubilee Award-2021” under Innovative Instrument Design.

7.0. Underground Mining

7.1. Outside consultancy jobs :

Following major jobs were completed during 2021-22:

- Assessment of UG mining potentiality of Bandha coal block.

7.1. CIL Jobs :

- Design of isolation stopping for U/g mine in Churcha RO, Baikunthpur area, SECL.
- Preparation of NIT for Patratu ABC Project of CCL as per AAP.
- Identification of Coal Blocks for NCL to achieve 170 MTY in 2023-24.
- Preparation of Feasibility report for UG Mining for the unbroken area of the Tikak OCP (98.59Ha) of NEC, Margherita, Assam.
- Preparation of Standard Price List for Mining Equipment, 2021.
- Underground Mine Capacity Assessment of UG mines of CIL for FY 2021-22.
- Scientific Study of overlying strata of Singhali and Dhelwadih UG mine of Korba Area, CG.
- Underground Mine Capacity Utilization of UG mines of CIL for the FY 2020-21.
- Examination of proposal for closure of Tipong Colliery (UG) of NEC, Margherita, Assam.
- Preparation of Design, Drawing, Estimate and NIT for the widening and deepening of Pit No.2 of Tilaboni Colliery, Bankola Area, ECL.
- 3D Subsidence Prediction and Management of Mahadevpuri UG mine, Pench Area, WCL.

- Modification in the model MDO documents (MCA and RFB) of Piparwar I UG, CCL.
- Modification in the model MDO documents (MCA and RFB) of Patratu ABC, CCL.
- Preparation of Abridged Project Report (APR) & MDO bid document for Parej (East), UG.
- Preparation of design, drawing, quantity estimate, bill of quantity for air shaft at Parasea-Belbaid Reorganisation UG (2.07 MTY) under Kunusotoria ECL.
- Preparation of Design, Drawing for Deepening of Existing Shaft A, B,C,D & E at Jhanjra Area, ECL.
- Preparation of customised MDO Document for Amarkonda Murgadangal and Brahmani Chichro Patsimal.
- 3D Subsidence Prediction and Management of Piparwar UG, CCL.
- Assessment of mining potentiality of Kakri North block by appropriate UG method and/or Highwall Mining.
- Requirement of air in mine for mass production technology, Project code no. CIL/R&D/01/63/2016.

7.3. Other jobs for MoC :

- Preparation & submission of mine dossier and mine summary (including map and cardinal points) for about 93 coal blocks selected for 3rd, 4th & 5th tranche of auction by MoC for commercial coal mining.
- Preparation and submission of reply to the queries raised by the bidders with respect to 1st, 2nd, 3rd & 4th tranche of commercial coal mining

7.4. Jobs in progress :

a. Outside consultancy jobs :

- Preparation of DPR for underground working in Dongri-Buzurg Mine of MOIL Limited.

- Preparation of Detailed Project Report (Revised) for Ramnagore-Indikatta Underground Project of SAIL – Ramnagore Colliery.

b. CIL Jobs :

- PR of Borka/Saratola UG, MCL.
- MDO document for Chinakuri-I, ECL
- Preparation of Design, Drawing and Estimates for Tilaboni Under Ground Mine, Bankola Area, ECL
- Consultancy services for Ventilation study for introduction of 2 numbers of Continuous Miners at Gayatri UG Mine, Bishrampur Area, SECL.
- 3D Subsidence Prediction and Management of Patratu ABC UG, CCL.
- Design & stability of Pillars/Arrays of pillars from different mining methods in coal mine workings (In Association with CIMFR & ISM).
- Development of Virtual Reality Mine Simulation (VRMS) for improving safety and productivity in coal mine (In association with IIT, ISM, Dhanbad).

8.0 CIVIL ENGINEERING SERVICES

Following major services were completed during the year under review:

8.1 PROJECT PLANNING JOBS:

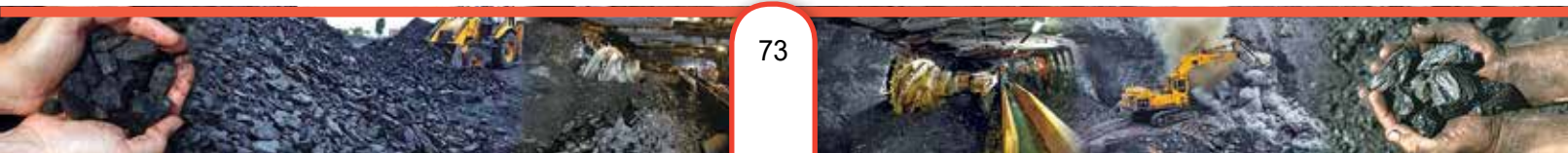
A. PR preparation/Cost Updation of civil part of

1. Kyada Choudhar Gariapani (Updated)

B. Technical vetting of PR/RPR for various reports forwarded to this department for technical vetting by PAD throughout the year.

8.2 CIVIL & ARCHITECTURAL DETAILED DESIGN & DRAWING JOBS:

- a. Preparation of construction drawing for a) shopping center, stadium/



- playground & Kalyan Mandap and
- b) Project Office, for Dudhichua project, NCL.
- b. Vetting of BOQ for furnitures package-III for the CSR project -Mahanadi Institute of Medical Science & Research, Talcher, Angul- being executed by NBCC on Concept to commissioning basis.
- c. Consultancy for the Construction of Training Centre at the vacant land in Salt lake, Kolkata.
- d. Drawing for construction of a radiation source storage room in CMPDIL, RI-3
- e. Preparation of construction drawings for C&D type quarter G+5 at CETI, Singrauli.

8.3 PREPARATION OF TENDER DOCUMENT:

- a. NIT for appointment of PMC towards developing mini-smart colony: Jagruti Vihar & Basundhara Colony (MCL).
- b. Preparation of NIT (Technical & Commercial) for installation of secondary sizars (-100mm) at the existing Jayant CHP, NCL.
- c. Preparation of Tender document for upgradation of central workshop, Jayant, NCL.
- d. Preparation of BOQ and NIT (Commercial and Technical) for Turnkey, contract for modification of STP at Khadia Project, NCL.
- e. Preparation of Tender document (Vol II, Technical) for design, engineering, construction & commissioning of workshop & store at Dudhichua OCP under package/ Offer-2.
- f. Shifting of western substation (2x100 MVA, 33 Kv/6.6 Kv) and Eastern Substation (1x10MVA, 33 Kv/6.6 Kv) to the new location for central substation (4x100 MVA, 33 Kv/ 6.6Kv) at Nigahi Project.

- g. Preparation of Estimate, NIT, design and drawing for Turnkey execution of Augmentation of existing 2x10 MBA micro substation with additional 2x10 MVA capacity at Jhanjra Area, ECL.
- h. Preparation of Tender Documents (Vol-II, Technical) for design, engineering, construction & commissioning of Excavation & E&M workshop at Nakrakonda, Kumardihi B OCP, Bankola Area, ECL.
- i. Coal handling plant at RGOC3 6 CHP. RG2 Area on EPC mode.
- j. NIT for the work of construction of 33/6.6 kV Substation at Rampur Batura OCP, Sohagpur Area SECL.

8.4 PREPARATION OF SCHEME/ REPORT:

- a. Preparation of DPR for development of CIL & its subsidiaries colonies into Mini-smart cities:
 - Jagruti Vihar & Basundhara Colony (MCL).
 - Nigahi Colony & Jayant Colony (NCL).
 - Koyla Vihar Colony (WCL).
 - Indira Vihar, Nehru Satabdi Nagar & Vasant Vihar (SECL).
- b. Design of Nallah Diversion and allied hydraulic structures.
 - Hydrological study and Preparation of Design of Nallah diversion for Parasea-Belbaid Reorganisation UG (2.07 Mty) of Parasea group of Mines under Kunustoria Area, ECL.
 - Scientific study for river diversion of Sadabah river in Lobjee river of Rajhara OCP, Rajhara Area, CCL
 - Preparation of : i) Detailed hydroglogical ground survey report of both the nallah, Potonge Nallah & Tilaiya Nallah, Design of Nallah



Figure 1 Prototype Building constructed at Jagannath Area, MCL for S&T project titled constructing structures on backfilled opencast coal mining- an attempt to suggest viable methodologies



Figure 2 Showing construction of Silo for JVR OC CHP, SCCL.

- diversion, design of embankment and slope protection & ii) schedule of quantities of items.
- Hydrological study of Supai nala for Baitarni-west coal mine, OMCL.
- c. Preparation of Detailed study Report & TSD/Tender Document (RFQ alongwith RFP) in e-tendering mode on Turnkey basis for renovation of the existing Moonidih (1.6 Mtpa) Coking Coal Washery.

- d. Evaluation of Bids (RFP+RFQ) for setting up of 2.5 Mtpa Moonidih Coking Coal Washery.
- e. Preparation of detailed study report & TSD/Tender document (RFQ along with RFP) in e-tendering mode on Turn-key basis for renovation of existing Madhuban Washery (2.5 Mtpa).
- f. Preparation of comprehensive scheme for Municipal Solid Waste Management (both for Residential and Non Residential) of NCL.
- g. Water Analysis, providing treatment scheme for use of Pakri Barwadih Eastern quarry water in dust suppression, service water, cooling water and firefighting system for both main & extended CHP package. of PB mine of NTPC.
- h. Preparation of scheme with cost estimate for handling, carrying, storage and mechanized loading wagon and truck loading system for one (3 types) at Balaghat mine of MOIL.

8.5 STRUCTURAL ADEQUACY STUDY:

- a. Phase-I (old CHP) and phase-II (package-A&B) of Nigahi project, NCL.
- b. Amlohri CHP (old & new) of NCL.
- c. CHP structure at Jayant OCP.

8.6 DESIGN/ DRAWING SCRUTINY OF FMC & OTHER PROJECTS:

- a. Jayant Incremental CHP (15 MTPA), NCL.
- b. Dudhichua CHP phase-III (10 Mtpa), NCL.
- c. Jhanjhra CHP (5 MTPA), ECL.
- d. Rajmahal CHP (10 MTPA), ECL.
- e. CHP and RLS with surge bin near Kaniha wharf fall siding (10 Mty) Kaniha Area, MCL.

- f. Block-B CHP, 4.5 MTPA, NCL.
- g. JVR OC CHP, SCCL.
- h. IB valley washery at Lakhanpur, MCL.
- i. Patherdih NLW washery (2.5 Mty cap), BCCL.
- j. 2.0 Mtpa Bhojudih, NLW Washery, BCCL.
- k. Kusmunda Main workshop, SECL.
- l. Block-B Workshop, SECL.

8.7 R&D PROJECTS:

- a. S&T project titled constructing structures on backfilled opencast coal mining- an attempt to suggest viable methodologies.

9.0 Electrical And Mechanical Engineering Services

Following Jobs were carried out in 2021-22

9.1 Mine Planning (Infrastructure)

➤ Preparation of Project report

✓ Head Quarter

- Kayada - Chaudhar Gariapani OC (4 MTY)

✓ Regional Institute I

- Gopinathpur U/G.
- Bhanora U/G.
- Pandaveswar - Dalurbandh OCP.
- Parascole Jambad OCP+U/G.

✓ Regional Institute II

- PR for Amalgamated NTST. and Phoolaritand.

✓ Regional Institute IV

Shivani OC, Amalg. Niljai Bellora Naigaon Deep OC, Urdhan Expansion OC, Singhori Deep OC, Konda Hardola OC MDO mode, Gauri Central OC MDO mode, Ukni Piplalgaon Deep OC, Inguri Underground Mine, Recast PR for TAWA III UG, RPR for Saoner Mine I UG Expansion RPR.

✓ Regional Institute V

Bartarai UG, Rajendra Expn.(Karkati) UG, Amritdhara UG, Malachua UG (MDO Option), Tatapani OCP, Damini OCP, Amartipur OCP, Madannagar OCP and, Pelma OCP

✓ Regional Institute VI

Bandha OCP and Tulsi OCP.

➤ Updation of Project reports / cost estimate

RCE of Hura-C, RCE of Tikak, PR of Ketki Expn. UG (0.87 Mty), (MDO Option) and PR of Ambika OCP (1.0 Mty).

9.2. Coal Handling Plant: Preparation of e-tender documents:

✓ Head Quarter

NIT for RG3 OC CHP, SCCL, Mohanpur OC CHP, Nigahi CHP, Bina-Kakri CHP and Installation of secondary sizer of Jayant old CHP, NCL.

✓ **Regional Institute I**

- Updation of NIT of Kumardih B CHP.
- Preparation of Scheme of integrated railway despatch of coal from Shyamsundarpur U/G & Tilaboni U/G through RLS (in process).

✓ **Regional Institute III**

Tender Document for KDH PURNADIH INTEGRATED CHP and KARO CHP.

✓ **Regional Institute IV**

- NIT for Mungoli- Nirguda Expansion OC, WCL CHP with Silo (FMC Project).

✓ **Regional Institute V**

- NIT of Amadand OC CHP (4.0 MTY).

✓ **Regional Institute VI**

NIT for Secondary Sizer of Amlohri CHP, Khadia CHP, Nigahi CHP, Bina-Kakri CHP and Khadia CHP.

✓ **Regional Institute VII**

Final e-NIT of VK-7 CHP and Draft e-NIT of PK OCP.

9.3. Workshop & Store: Preparation of e-tender documents

✓ **Head Quarter**

NIT for Nakrakonda-Kumardihi-B W/S and store, Dudhichua W/S and Store Expansion, Bina-Kakri W/S and Store Expansion and Updation of Technical Specification

of P&M (44 Nos.) for CWS, Jayant, NCL.

9.4. Scrutiny/Approval of Drawings of CHP's / Workshop/Substation

✓ **Head Quarter**

Drawing Scrutiny of Incremental (15 MTY) CHP at Jayant OCP, Incremental (10 MTY) CHP at Dudhichua OCP, Block-B CHP (4.5 MTPA Incr.), Jhanjra CHP (5 MTPA Additional), Rajmahal CHP (10 MTPA), Kaniha CHP (10 MTPA), JVROC CHP, Kusmunda Workshop and Drawing Scrutiny for Modification of Khadia STP (E&M part), NCL.

✓ **Regional Institute II**

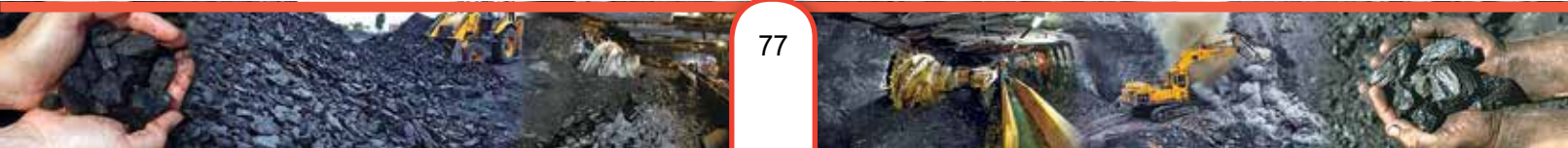
Drawing Scrutiny of RLS for dispatch of washed products of 5.0 MTY NLW Patherdih washery.

✓ **Regional Institute III**

Drawing Scrutiny of NORTH URIMARI CHP, MAGADH SUBSTATION, 2X16 MVA, 33/6.6 kV, AMRAPALI SUBSTATION, 2X16 MVA, 33/6.6 kV, NORTH URIMARI SUBSTATION, 2X5 MVA, 33/6.6 kV, MAGADH 33 kV Over Head Transmission Line and AMRAPALI 33 kV Over Head Transmission Line.

✓ **Regional Institute IV**

Drawing scrutiny of CHP & Silo at Baroud OC Project and CHP & Silo at Dinesh (Makardhokra-III) OC Project.



✓ Regional Institute V

- Drawing scrutiny of CHPs includes:

Gevra Phase-I (25 Mty), Gevra Phase-II (30 Mty). Dipka Mechanised siding (25 Mty), Chhal CHP (6 Mty), Manikpur CHP (5 Mty) and Kusmunda Phase-III (40 Mty).

- Drawing scrutiny of Gevra Workshop, SECL.

- Drawing scrutiny of Substation:

g) 220/33kV, 2X 100 MVA S/S at Gevra Expansion (35-70 Mty).

h) 3 nos, 33kV Substation at Kusmunda OCP.

i) 3 nos 33/6.6 kV, 2X 16 MVA S/S at Gevra Expn. (35-70 Mty).

j) 2X 4 MVA, 33 kV/3.3 kV Substation at Jaganathpur OCP.

- Drawing Scrutiny of Transmission line: 3 nos. 33kV Overhead transmission line from 132kV/33kV Central S/S to 3 nos. 33kV/6.6kV S/S at Kusmunda OCP, SECL.

✓ Regional Institute VI

- Drawing Scrutiny of Mechanized loading system at Wharf wall of Dudhichua OCP.

- Drawing Scrutiny of CHP Wharf wall siding at Amlohri OCP.

- Drawing scrutiny of 1X10MVA, 33/6.6 kV Substation at Khadia OCP.

✓ Regional Institute VII

Drawing Scrutiny of Lakhanpur CHP, Bhubaneswari CHP, Sardega CHP, Lajkura CHP, Ananta CHP and Coal Feeding Arrangement (10 Mty) to Bhubaneswari CHP.

9.5. Energy Audit and Benchmarking

- Annual Diesel Benchmarking for seventy (93) nos. Opencast mines of CIL subsidiaries.
- Electrical Energy Audit & Benchmarking for 11 project of CIL subsidiaries
- Illumination Survey of 3 project

9.6. Power Supply and Distribution & Control Systems

✓ Head Quarter

- NIT for 2x10 MVA, 33/6.6KV sub-station at Bhatmura OCP, ECL.
- NIT for construction of 3x10 MVA, 33/6.6 KV Sub-Station as per PR of Block-B Expansion OCP, NCL.
- NIT for 2x4 MVA, 33/3.3 KV sub-station at SOCP, IBV Area.
- NIT for shifting of Eastern & Western Sub-station to new location of Central Sub-station of Nigahi Project.
- NIT for Augmentation of existing 2x10 MVA micro



substation with additional 2x10 MVA capacity at Jhanjra

- NIT for Bina Switching Station.

✓ Regional Institute II

- Estimate & layout Drawing for Amalgamated NTST.
- Estimate & Layout Drawing for Phoolaritand.

✓ Regional Institute III

NITs of KDH, JARANGDIH and KARO Over Head Transmission Lines of CCL.

✓ Regional Institute IV

- NIT for 2 x 6.30MVA, 33KV/11KV & 2x7.50MVA, 33KV/6.6KV Substation at Dinesh (Makardhokra-III) OCP.
- NIT for 2x6.30MVA, 33KV/6.6KV Substation at Mungoli Nirguda EXT (DEEP) OCP.

✓ Regional Institute V

- 3 nos. 33/6.6 kV, 2X 16 MVA S/S at Gevra Expn. (35-70 Mty).
- 220/33kV, 2X 100 MVA S/S at Gevra Expansion (35-70 Mty).
- 3 Nos, 33kV Substation at Kusmunda OCP.
- 2 X 4 MVA, 33 kV / 3.3 kV Substation at Jaganathpur OCP
- NIT for 2X1000kVA, 33kV/3.3kV S/S at Jhiria West OCP.

- NIT for 2X5000kVA, 33kV/6.6kV S/S at Rampur Batura OCP.
- NIT for 2X6300kVA, 33kV/6.6-3.3kV Township S/S at Kusmunda OCP.
- NIT for 3 nos. 33kV Overhead transmission line from 220kV/33kV Central S/S to 3 nos. 33kV/6.6kV S/S at Gevra OCP.
- NIT for one no. 2X 20MVA, 132kV/33kV S/S & 2 nos. 2X10MVA, 33kV/6.6kV S/S at Baroud OCP.

✓ Regional Institute VII

- Draft e-NIT of 3x12.5 MVA, 33/6.6 kV Project Substation and 33 kV DC OHTL at Lakhanpur OCP.
- Draft e-NIT of 33 kV DC OHTL from 220/33 kV Substation to 33/6.6 kV project substation - I at Siarmal OCP.

9.7. Solar Initiatives

✓ Head Quarter

- 3.5 MW Solar Power Plant (ground + roof top) at different locations in CCL.
- Scheme for installation of 1.2 MW Solar Power Plant at IWSS Khadia, NCL.
- 150 kWp is Commissioned at CMPDIL HQ, Ranchi.

✓ Regional Institute I

- Preparation of NIT for Supply, Installation, Commissioning



& Testing of 160 Nos Solar LED Street lights (50 Nos. in Madhaiganj village, 40 Nos. in Govindpur village and 70 Nos. in Gopinathpur Gram Panchayat) of Paschim Bardhaman and Dhanbad district respectively with 2 years Guarantee (All in one system shall not be acceptable) under CSR activity.

✓ Regional Institute IV

- 83 kWp Solar Rooftop Power Plant has been commissioned at CMPDIL New Office Building in March 2022
- Land Assessment job of seven areas of WCL for installation of Solar Power Project under PMC Job. Report is Submitted to WCL.

✓ Regional Institute V

- Tender for 100 kWp Ongrid Solar Power Plant (Ph-II) NIT has been prepared and is to be floated shortly. Thus RI-V will accomplish the target of becoming a NET ZERO ENERGY OFFICE.

✓ Regional Institute VII

- 60 kWp is Commissioned at RI-VII, Bhubaneswar.

9.8. Other Reports/Tender Document/ Scheme.

✓ Head Quarter

- Scheme on STP at Kenda, ECL.

- Scheme for mechanised loading of wagon & truck loading system for ORE (3 type) at Balaghat Mine, MOIL.
- Fire-fighting arrangement for 4x20 MVA, 132/33 KV central sub-station at Jorabaga, Lakhanpur Area, MCL.
- Cost estimate & specification for E&M items for proposed modification of ETP at Bina OCP, NCL (Draft Submitted).
- Cost estimate & specification for E&M items for proposed modification of STP at Bina OCP, NCL (Draft Submitted).
- Scheme for modification of existing STP & ETP at Kakri OCP, NCL (Draft Submitted).

✓ Regional Institute I

- Conceptual note with incorporation of low height Continuous Miner at Bansra U/G.
- Scheme of Chapapur OCP, Sangamahall OCP & Dabor OCP.
- Scheme of Shampur B U/G.

✓ Regional Institute II

- Schemes for dealing with fire.

✓ Regional Institute IV

- NIT of Hydrological Study of Borda UG Mine.

✓ Regional Institute VI

- Diesel audit of Nigahi OCP.
- Scheme for Modification of Jayant ETP & CETP.



- NIT for Modification of Jayant ETP & CETP.

✓ **Regional Institute VII**

- Final Scheme of Pre-weigh Truck Loading arrangement 3 Mty at Lakhanpur OCP.

9.9. Inspection Services

- Pre-despatch Inspection Services for plant & machinery purchased by all CIL subsidiaries at the Manufacturer's Works.
- Revenue earned from the services by CMPDIL for the year 2021-22 including HQ & all RIs is **Rs. 1.96 crores approx.**

9.10. NDT (Non-destructive Testing) Jobs.

✓ **Head Quarter**

- NDT of CHP at various projects of NCL.
- NDT of HEMM & other P&M of NCL Projects.
- NDT of HEMM at Religara Project, Argada Area, CCL.
- Structural stability test/NDT of Hydraulic excavator BE-1000 of Durgapur OCM of WCL.
- NDT of Hydraulic excavator BE-1000 SI. No.10149 of DOCH employing MPFC & UFD testing technique for Chandrapur Area, WCL.
- NDT of 20/90 Dragline & Excavators (8 Nos) at Ballarpur Area, WCL.

- CMPDIL received Rs.3.80 Crores for NDT of HEMMs, CHP, etc. and preparation of reports for 43 projects of subsidiaries of CIL.

9.11. ISO Consultancy

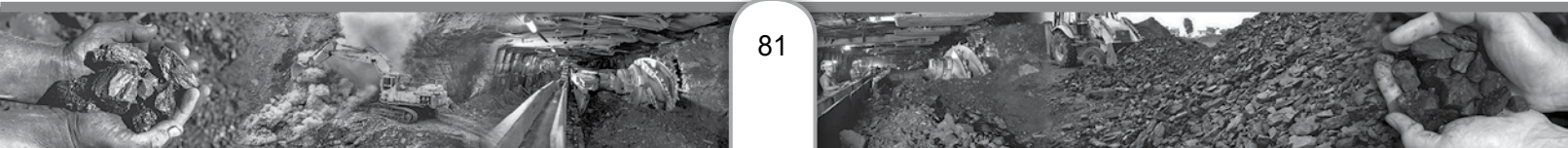
✓ **Head Quarter**

- Consultancy work for Talaipalli Coal Mining Projects of M/s NTPC in getting certifications for ISO 9001, ISO 14001 and ISO 45001 is completed.
- Re-certification for NCL, ECL, and WCL completed in latest version of standards.
- Transition of ISO 50001-Energy Management Certificate of CIL(HQ) into latest version is completed.

9.12. Other Major Jobs

✓ **Head Quarter**

- Coal Block Cost updation (E&M Part).
- Scrutiny of Project Reports prepared by RIs of CMPDIL.
- Vehicle Tender for hiring of vehicle on as and when required basis.
- Operation of departmental & hired vehicles and maintenance of departmental vehicles.
- Implementation of ISO Integrated Management System of CMPDIL for ensuring Quality and Data Security in E&M Division, CMPDIL (HQ).



- Preparation of Tender Document & Tendering process for installation of New lift
- ✓ **Regional Institute IV**
 - Preparation and Floating of Tender (Custom Bid) of hiring of 32 nos of Vehicles for CMPDIL RI-IV and its Exploration Camps.
- Work of “Re-organization of Electrical power supply arrangement and street light pole installation along with light fittings at CMPDIL sub-station, office and township”.
- Procurement of 320 KVA DG Set under CSR activity.

10.0 TOWN ENGINEERING SERVICES

The main responsibilities of the Town Engineering Department includes:

i)	Maintenance of the buildings, viz. office buildings and residential staff quarters. Maintenance of cleanliness, clean and green environment with necessary horticulture works and maintaining the same.
ii)	Maintenance of all electrical, electronic and mechanical equipment pertaining to the office and maintaining the inventory of the same.
iii)	Maintenance of all office furniture.
iv)	Water supply management by taking-up necessary steps.
v)	Power management by taking-up necessary steps to conserve and save electricity.
vi)	To ensure receipt, checking and submission of proposals for payment of electricity bills, telephone bills, water bills and other statutory payments etc.
vii)	Liaison works with local statutory bodies like Municipal Corporation and JBVNL.

Following are the list of completed and running works under Capital works, running repair works, special repair works and CSR works in 2021-22 in TE & CM Division of CMPDIL (HQ) :

Sl. No.	Name of works	Work Value (Rs. In lakh)
	Ongoing works	
1.	Shifting for quarters and repair and maintenance against backlog complaint for residential quarters at CMPDIL (HQ), Ranchi.	30.45
2.	Comprehensive Maintenance of Residential Quarters and Township at CMPDIL Colony, Ranchi.	564.00
3.	Annual Maintenance Contract for mosquito control and General Pest Control Services at CMPDIL (HQ), Kanke Road, Ranchi.	14.08
4.	Repairing of RCC parapet top and sloped chajja after dismantling existing damaged portion, prevention work against roof seepage alongwith internal and external painting of E1, E2 and E5 bungalow at IICM, Kanke Road, Ranchi.	19.03
5.	Construction of 2 Nos. of Toilet Blocks at Misirgonda village, Near CMPDIL (HQ), Ranchi under CSR Scheme.	36.98
7.	Construction of Two Nos. of Toilet block at Government High School at Pithoriya and Urguttu, Ranchi.	35.34
8.	Supply, installation, commissioning, testing and comprehensive maintenance for 05 years of rooftop micro-grid solar power plants of various capacities at various office buildings of CMPDIL (HQ), Ranchi.	5.10



Sl. No.	Name of works	Work Value (Rs. In lakh)
9.	Design, supply construction installation and commissioning of Lift 8 passenger Load 544 Kg Speed 1m per sec. for G4 Building including Design and construction Lift shaft well and all complete.	48.84
10.	Civil and allied works for installation of Capsule Lift in Exploration building and CMPDIL Guest House at CMPDIL (HQ), Ranchi.	24.81
11.	Construction of Badminton Court complex at CMPDIL (HQ), Ranchi	114.56
COMPLETED WORKS		
1.	Repair of existing toilets for seepage treatment and other repair work and replacement of existing soil pipe in colony quarters at CMPDIL (HQ) Ranchi	13.02
2.	Renovation and furnishing of E-procurement & Contract Management Cell at CMPDIL (HQ), Ranchi	10.13
3.	Supply of curtains & Linen Items for STC Hostel, CMPDIL (HQ), Ranchi	8.32
4.	Supply, installation, commissioning, testing of rooftop micro-grid solar power plants of various capacities at various office buildings of CMPDIL (HQ), Ranchi	45.93

11.0 S&T PROJECTS FUNDED BY MINISTRY OF COAL:

- 11.1. The Research & Development (R&D) activities in coal sector is administered through an Apex Body namely, Standing Scientific Research Committee (SSRC) with Secretary (Coal) as its Chairman. The other members of this Apex Body include Chairman of Coal India Limited (CIL), CMDs of Central Mine Planning & Design Institute Limited (CMPDIL), Singareni Collieries Company Limited (SCCL) and Nevveli Lignite Corporation India Limited (NLCIL), Director General (DG) of Directorate General of Mines Safety (DGMS), Director General of Council of Scientific & Industrial Research (CSIR), representative from Department of Science & Technology, Adviser Energy, NITI Aayog, Director, CMIFR, Dhanbad, Director, TERI & Chairman of the Technical Sub-committee of SSRC. The main functions of SSRC are to plan budget, identification of thrust areas for coal and lignite sectors, approve new research projects, oversee the outcomes of the completed projects and their replication in actual field condition.
- 11.2. The SSRC is assisted by a Technical sub-committee headed by HoD (Mining) IIIT-KGP/ IIT-ISM/IIT-BHU on annual rotation basis. The sub-committee deals with new research proposals related to advanced technology/methodology for improvement of production & productivity from underground mining and open cast Mining, improvement of safety, health and environment, waste to wealth, alternative use of coal and clean coal technologies, coal beneficiation and utilization, exploration, innovation and indigenization (Under Make-in-India Concept), etc.
- 11.3. CMPDIL acts as the Nodal Agency for co-ordination of research activities in the coal sector, which involves identification of Thrust Areas for research activities, identification of agencies which can take up the research work in the identified fields, scrutiny and processing the proposals for Government approval, preparation of budget estimates for research activities, disbursement of fund to implementing agencies based on the progress of the project and monitoring the progress of the projects, etc.

- Total no. of S&T projects taken up (till 31.03.2022) - 399 nos.
- Total no. of S&T projects completed (till 31.03.2022) - 330 nos



11.4. Physical and Financial Performance during 2021 -22

a. Physical performance

The status of Coal S&T projects during 2021 -22 is as follows (Annexure - A):

Projects on-going as on 01.04.2021	-	12
Projects approved by SSRC	-	2
Projects completed	-	3
Projects on-going as on 01.04.2022	-	11

b. Financial performance:

Budget provisions and actual expenditure are shown below:

(₹ Rs. in Crore)

2020 -21			2021-22		
RE	Fund received from MoC	Actual	RE	Fund received from MoC	Actual
12.0	9.91	9.97*	11.50	8.35	7.53 (unaudited)

*Rs. 0.06 crore has been disbursed directly by MoC to IIT-ISM, Dhanbad

Annexure - A

Name of S & T Projects funded by Ministry of Coal approved during 2021-22

Sl. No.	Name of the project	Implementing agencies	Approved cost (₹ Rs. in lakh)
1.	Modelling and design of indirect coal gasification reactor for high-ash Indian coals. [Project code: CE/34]	IIT, Madras & CMPDIL, Ranchi	72.07
2.	Establishment of Geo-thermal energy (20KW Cap) power generation Pilot Project at Manuguru area of SCCL Command area based on closed loop Binary Organic Rankine Cycle Process technology. [Project code: CE/33]	Singareni Collieries Company Ltd, Kothagudem and Shiram Institute for Industrial Research, New Delhi	172.28

Name of S&T Projects funded by Ministry of Coal (MoC) completed during 2021-22

Sl. No.	Name of the project	Implementing agencies	Approved cost (₹ Rs. in lakh)
1.	On-line coal dust suppression system for opencast mines. [Project code: EE/47]	Centre for Development of Advanced Computing, Tiruvanthapuram; Mining Electronic Department, CMPDIL, Ranchi	421.04



Sl. No.	Name of the project	Implementing agencies	Approved cost (₹ Rs. in lakh)
2.	Reclamation of coal mined land of North Eastern Coalfields, Assam through soil amendment and revegetation with native plant species using integrated biological approach. [Project code: EE/50]	RFRI, Jorhat & NEC, Margherita	83.18
3.	Coal Bed Methane (CBM) reserves estimation for Indian Coalfields	Indian Institute of Engineering Science and Technology (IEST), Shibpur, CMPDIL, Ranchi, Tata Consulting Engineers Ltd, Kolkata and NGRI, Hyderabad	2069.91

R&D Projects funded by Coal India Limited (CIL)

- For in-house R&D work of CIL, there is an R&D Board headed by Chairman, CIL. The R&D Board is assisted by an Apex Committee headed by Director (Tech.), CIL. CMPDIL acts as the Nodal Agency for preparation of budget estimates for research activities, evaluation of new project proposals, disbursement of fund to implementing agencies based on the progress of the project, monitoring the progress of the projects till their completion and dissemination of the research findings, etc.
- To enhance R&D base in command areas of CIL, CIL Board in its meeting held on 24th March 2008 has delegated substantial powers to R&D Board of CIL and also to the Apex Committee of the R&D Board. The Apex Committee is empowered to sanction individual R&D project up to Rs. 5.0 Crore value with a limit of Rs. 25.0 Crore per annum considering all the projects together and CIL R&D Board is empowered to allocate Rs.500 Crore per annum and sanction individual R&D project up to Rs. 50.0 Crore.
 - Total no. of R&D projects taken up (till 31.03.2022) - 110 nos.
 - Total no. of R&D projects completed (till 31.03.2022) - 68 nos.
- Physical and financial performance during 2021-22:

a. Physical performance:

The status of CIL R&D Projects during 2021-22 are as follows:

Sl. No.	Parameters	Quantity
1.	Projects on-going as on 01.04.2021	25
2	Projects sanctioned during 2021-22	10
3	Projects completed during 2021-22	05
4	Projects terminated/ foreclosed during 2021-22	01
5	Projects on-going as on 01.04.2022	29

b. Financial performance:

Budget provisions vis-à-vis actual fund disbursement during the period are given below:

(₹ Rs. in Crore)

2020-21		2021-22	
RE	Actual	RE	Actual
12.00	12.29	25.0	31.20 (Unaudited)

Annexure-B**R&D Projects funded by CIL approved during 2021-22**

Sl. No.	Name of the Project	Implementing agencies	Approved cost (₹ Rs. lakh)
1.	Appraisal of Gondwana Sediments (Coal, Clay, Shale, Sandstone) for Trace Elements & REE concentration in the Singrauli coalfield. [Project code: CIL/R&D/04/13/2021]	Exploration Division, CMPDIL (HQ), Ranchi & NCL.	210.81
2.	Study on performance improvement of coking coal washery under Coal India Ltd. through modelling and simulation analysis. [Project code: CIL/R&D/02/10/2021]	NML, Jamshedpur; CMP Division, CMPDIL (HQ), Ranchi & BCCL, Dhanbad.	264.04
3.	Effective utilization of middlings and fines of coking coal washery for recovery of carbon values. [Project code: CIL/R&D/02/11/2021]	NML, Jamshedpur; CMPDIL (HQ), Ranchi; BCCL, Dhanbad.	141.02
4.	Scaling up the conversion of CO ₂ to methanol and other value-added chemicals with 500 Kg CO ₂ /day capacity. [Project code :CIL/R&D/04/14/2021]	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bangalore; Singareni Collieries Company Limited (SCCL) Kothagundem; And BREATHE Applied Sciences Pvt Ltd, Bangalore.	1597.29
5.	Indigenous Development of Monolithic Perovskite Module Manufacturing by Printing. [Project code: CIL/R&D/04/15/2021]	IIT Bombay; CIL, Kolkata & CMPDIL.	1317.62
6.	Up-gradation of high ash Indian coal through physical and chemical beneficiation. [Project code: CIL/R&D/02/12/2021]	IIT-Kharagpur; CMPDIL; BCCL; CCL and MCL.	144.30
7.	Design and development of knee and spinal smart protective devices for improving the health and safety of miners. [Project code: CIL/R&D/01/76/2021]	IIT-ISM, Dhanbad and BCCL.	72.06

Sl. No.	Name of the Project	Implementing agencies	Approved cost (₹ Rs. lakh)
8.	Development of guidelines for delineation of water stressed area and designing of environmental friendly water storage structure for meeting the water needs in mining areas. [Project code: CIL/R&D/04/16/2022]	IIT-ISM, Dhanbad and CCL.	107.84
9.	Real-time energy efficient cyber-physical intelligent system for mine slope health monitoring. [Project code: CIL/R&D/01/77/2022]	IIT-ISM, Dhanbad and BCCL.	263.75
10.	Separation and recovery of fine particles from coal washery effluents using bio-coagulant [Project code: CIL/R&D/02/13/2022]	IIT-ISM, Dhanbad and BCCL.	54.87

R&D Projects funded by CIL completed during 2021-22

Sl. No.	Name of the Project	Implementing agencies	Approved cost (₹ Rs. lakh)
1.	Requirement of air in mine for Mass Production Technology	Underground Mining Division (UMD),CMPDIL	491.27
2.	Indigenous Development of Through the Earth (TTE) Two-Way Voice Communication System for Underground Mines.	IIT, Bombay & CMPDIL, Ranchi	129.56
3.	Development of a methodology for regional air quality monitoring in coalfield area using satellite data and ground observations.	Geomatics Department, CMPDIL, Ranchi and National Remote Sensing Centre (NRSC), ISRO, Hyderabad.	709.82
4.	Design of cost effective process flowsheet for improved washing efficiency of Indian Coking & Non-Coking Coal.	IIT-ISM, Dhanbad; CMPDIL & BCCL.	238.65
5.	Development of guidelines for design of all tiers of shovel-dumper dump above dragline dump, with delineation of phreatic surface, within dragline dump, throughout the year and validation study on two dragline mines of Coal India Limited (CIL).	BIT, Mesra & S&R Division, CIL(HQ), Kolkata.	75.30

12. BLASTING

CMPDIL is the expert agency for conducting a spectrum of blasting studies with extensive clientele that includes all subsidiaries of Coal India Ltd., SCCL, NLC and private mine owners such as Adani Enterprises Ltd., Hindalco etc.

CMPDIL with all its Regional Institutes are fully capable of blast designing for coal and metal mines that allow mine owners to conduct smooth operations safely and within the purview of guidelines laid down by DGMS and PESO.

CMPDIL with its team of experts has successfully completed several R&D projects the results of which have been ground breaking and are bringing a sea change in the blasting operations of Indian mining industry. The list of some notable research projects is as follows:

R&D Project:

1. Study of Techno-Commercial efficacy of ANFO with Low Density Porous Prilled Ammonium Nitrate for blasting in overburden of coal mines.
2. Multiple layer trial Blasting for better recovery with less Diluted Coal.
3. Effect of Blasting on Opencast Mine Dump and Development of Relationship between Blast Induced Vibration and Dump Design.

Further during the year, CMPDIL has successfully delivered the following jobs for its customers: -

- (i) Controlled blasting and vibration assessment to determine the optimum charge per delay based on prevailing geo-mining conditions.
- (ii) Blast designing for increasing productivity and safety during blasting.
- (iii) Quality assessment of explosive and accessories supplied in the mines

of clients and new explosives and accessories prior to their commercial introduction.

- (iv) Training of mine personnel related to safe use of explosives and quality assurance of explosives being consumed in their mines.

Blasting division of CMPDIL, with a perspective of revenue generation in the next 10 Years has updated its earlier formulated Strategic Business Plan. Major thrust has been envisaged upon the enhancement of revenue by leveraging the existing in-house skills. Its Strategic Business Plan incorporates necessary measures for being competitive in the future by recommending appropriate and comprehensive strategies to be adopted for diversifying in other services such as demolition, use of AI and data analytics for building new revenue generation model, adoption of knowledge management system, etc.

13. LABORATORY SERVICES

13.1. Chemical Laboratory

The Geo-Chemical Laboratory carried out processing of 14991.45m of coal cores and analyzed 45346 nos. of samples against given target 12500m of coal cores processing and analysis of 45000 nos. of samples. The coal characterization study was carried out on coal samples from 40 nos. of exploration blocks covering 34 coalfields. Samples also included washery products and coking coals from BCCL for purpose of grading.

13.2. Coal Petrography Laboratory

A total of 940 samples were analyzed for petrographic studies against a given target of 930 nos. The Petrographic analysis was carried out for 25 nos. of exploration blocks covering 18 coalfields. The micro cleat studies were carried out on 35 nos. of samples against a given target of 40 samples for CBM assessment study.

13.3. Coal Preparation Laboratory

CMP Laboratory is engaged in washability analysis (including Proximate Analysis, GCV, HGI, Caking Properties etc.) for both coking and non-coking coal samples of different coalfields as per job requirement. These analysis are carried out for bore core coal samples and ROM coal. The number of coal samples whose analysis has been carried out during 2021-2022 is given below:

- a) Bore Core Coal Samples - 24 samples tested for washability analysis.
- b) RoM Coal Samples – 01

13.4. Mining Laboratory

ROCK MECHANICS/ ROCK TESTING

1. Tests have been conducted for physico-mechanical properties on drill core samples of 3600m.

Report on results of physico-mechanical properties of six (06) boreholes of different coal blocks of CIL/Non-CIL. Testing for physico-mechanical properties for three boreholes of coal blocks were in progress.

STRATA CONTROL STUDIES

1. Four (04) reports on study of Rock Mass Rating (RMR)/ SCAMP/ Cavability studies submitted.
2. Cumulative rock types tested (12 nos.) for determination of strength properties, slake durability index and density for RMR study.

14. ENVIRONMENTAL SERVICES

14.1. EIA / EMPs

CIL PROJECTS

During the year 2021-22, Environment Department prepared a total of 25 nos. of Form-1 (including Form IV & VI) and 25 nos. of Draft EMPs/Addendum EMPs.

Grand total of 50 nos. reports were prepared.

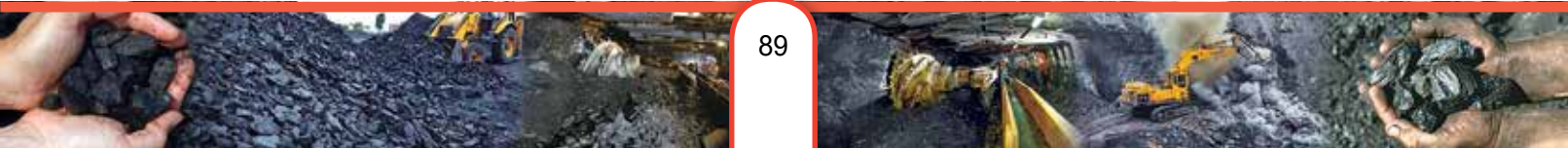
OUTSIDE PROJECTS

During the year 2021-22, Environment Department prepared:

- EIA/EMP Report of Fly Ash disposal into Gorbi mine of NCL for VSTPS , NTPC.
- Scheme for Acid Mine Drainage Treatment Plant (4.0 MLD) of Pakri-Barwadih OCP, NTPC.
- Progressive Mine Closure Monitoring & Audit Report of West Bokaro Colliery ,M/s Tata Steel Ltd.
- Interim report of Replenishment studies of Sand/Murram in the rivers located in Banda Dist. of UP, Directorate of Geology & Mining, Govt. of Uttar Pradesh.

14.2. Environmental Monitoring of Air, Water and Noise

- The Ministry of Environment, Forests & Climatic Change (MoEF&CC) accords the Environmental Clearance (EC) to the mining projects with condition to conduct Routine Environmental Monitoring(REM) to ascertain the efficacy of the pollution control measures taken at the project level during the operation of mines for compliance of EC conditions.
- During the Financial Year 2021-22, environmental monitoring of 299 projects/clusters/establishments of CIL (ECL-16, BCCL-17, CCL-72, WCL-84, SECL-69 , NCL-13 and MCL-28) were carried out through nine environmental laboratories located at Asansol, Dhanbad, Nagpur, Bilaspur, Bhubaneswar, Kusmunda, Hasdeo, Jayant, and Ranchi.
- Total Samples Collected & Analyzed during the financial year 2021-22 :



- Air :89822 Nos, Noise: 22618 +312 Nos. (Day & Night + Day Only) & Water :19710 Nos.



- Total Revenue earned from REM services during FY 21-22: Rs.169.13 Crores including GST.

Analysis of water samples: A view of Environment lab & CAAQMS Installed at CMPDIL, HQ

14.3. Accreditation to CMPDIL as EIA Consulting Organisation

CMPDIL is accredited as an EIA Accredited Consultant Organization (ACO) by Quality Council of India (A ministry of Environment & Forest's designated Agency) for Mining of Minerals including Opencast/Underground mining sector, Thermal power and Coal Washeries sector, Offshore and Onshore Oil and Gas exploration, development and production for EIAs of Coal Bed Methane. CMPDIL is the largest Accredited Consultant Organization (ACO) in India for preparation of EIA & EMP and having more than 90 nos. of approved Experts in four sectors and 12 Functional Areas.

14.4. Accreditation of CMPDIL Environmental Laboratory

Environmental Laboratories of CMPDIL (HQ) Ranchi, RI-I, Asansol, RI-II, Dhanbad, RI-IV, Nagpur, RI-V, Bilaspur & RI -VII,

Bhubaneswar have been accredited by National Accreditation Board for Testing & Calibration of Laboratories (NABL) as per the ISO/IEC 17025:2017 accreditation scheme.

Environment Lab, CMPDIL (HQ) is also under advanced stage of renewal of recognition by Central Pollution Control Board (CPCB), Delhi under Environment (Protection) Act, 1986.

14.5. ETP/STP/AMD(IWSS) Scheme for Coal Projects

During the Financial Year, 2 nos. of schemes were finalized during the year i.e., Scheme for Modification of STP and ETP for Bina OCP of NCL. Further Scrutiny of Design and Drawings of 2 nos. of projects namely STP of New Kenda colony of ECL & STP of Khadia OCP colony of NCL was also completed during the year. Further, tender document (technical part) for ETP of Bina OCP, NCL was also prepared & submitted.

14.6. Quick Comments –Mining Plan & Mine Closure Plant for MoC to CMPDIL

20 nos. of Mining Plan & Mine Closure Plans were scrutinized and comments sent to MoC during the year.

14.7. Appraisal of Project Reports for Coal Mining Projects

34 nos. project reports for coal mining projects have been appraised by Environment division in the year.

14.8. Sustainable Development Cell for assisting MoC

CMPDIL is assisting MoC in formulation of Green Coal Strategy for the coal sector in India with the objective to minimize the adverse environmental impacts of coal and promote best practice mine environmental management.

It is also assisting MoC in planning & implementation of sustainable

development practices in coal sector like restoration of ecology and biodiversity, land reclamation, Carbon footprint assessment, Mine water conservation and utilization, mine tourism, utilization of OB, sustainable mine closure etc.

14.9. Special Studies & S&T/R&D Studies

- Report on Environment Sustainability in Coal PSU - Present Status and way forward under SDC for MoC (FY 2019-20).
- Development of Methodology for Regional Air Quality Monitoring in Coalfield Area using satellite data and ground observation was completed in collaboration with NRSC, Hyderabad.
- First of its kind study in the country on “Estimation of Carbon footprint of CIL mines and road map to carbon neutrality” was carried out by CMPDIL and report was submitted to MoC.
- The report on Status report of Mine Water Utilization for Coal Mines of India for FY 2019-20.
- Report on carrying capacity of Bhubaneswaari OCP ,MCL
- Second interim report of Continuous Monitoring of Ecology of Ananta OCP,MCL in collaboration with IIT-ISM,Dhanbad.
- The draft report on Green Statistics of Coal Mines of India (FY 2021-22) has been submitted to MoC.

14.10. Capacity Building Training



Environment Division, CMPDIL had organized capacity building training for 15 nos. executives of department (including HQ and RIs) on Ecology & Biodiversity at Indian Council of Forestry Research and Education (ICFRE), Dehradun.

14.11. Celebration of World Environment Day

The World Environment Day was celebrated on 5th June, 2021 at HQ & RIs. A number of programmes viz. Environment flag hoisting, environment pledge taking



and plantation programmes were organized to create awareness amongst employees of CMPDIL.

14.12. Celebration of Vriksharopan Abhiyan-2021

CMPDIL carried out the 'Vriksharopan Abhiyan' as part of 'Azadi Ka Amrit Mahostav' celebrations launched by MoC, by carrying out plantation drive across its Regional Institutes, Exploration camps and at HQ.



The plantation were carried out at 8 sites, spread across 6 states and planted 100 Nos. saplings and distributed 350 Nos. saplings. Total 515 employees across CMPDIL participated in this occasion. Fruit bearing saplings were also given to Bharat Vikas Parishad, an NGO based in Ranchi.

15. INFORMATION & COMMUNICATION TECHNOLOGY.

In addition to providing in-house support, ICT Division of CMPDIL has been extending consultancy services to CIL and its Subsidiaries. Some of the major jobs done during Financial Year 2021-22 have been outlined below.

15.1. Centralized software developed and maintained by ICT Division CMPDIL for entire CIL:

- a. Maintenance of Portal for Contract Labour Information Portal – CLIP: registering contract labours working in various subsidiaries.
- b. Web enabled On-Line PMS (Performance Management System) – PRIDE for Executives up to E7 and PAR for Executives above E7.
- c. Maintenance of Human Resource Management System (HRMS) for all executives of Coal India Limited.
- d. Maintenance of Vigilance Clearance System/Vigilance Monitoring System for CIL and subsidiaries.
- e. Maintenance of On-line web enabled Annual Property Return system for all executives of Coal India Limited. This is being extended to non-executives under Lokpal and Lokayukta Act.
- f. Underground and Opencast Mine Capacity Assessment - Applications have been developed and deployed for seamless entry of equipment data.
- g. Online Coal Block Information System - Application has been developed to give information regarding Coal Block Mine Data.
- h. Safety Clearance (SC) and Departmental Clearance (DC) Portals have been developed and implemented.
- i. Maintenance of Mine Data Management System Portal (MDMS) which depicts salient features of projects being monitored by CIL. The main features of the portal is to monitor the progress of coal projects which encompasses Environmental Clearance (EC), Forest Clearance (FC), Land Acquisition, Rehabilitation & Resettlement (R&R), financial parameters, HEMM procurement, production and other major infrastructure such as Coal Handling Plant (CHP), silo, washery, railway sidings and others.
- j. Maintenance of web portal integrated with MDMS which is used for monitoring.
- k. Environmental status and EC-FC compliance related data (environmental status like ambient air, Noise, Drinking water, Surface water etc.)
- l. Maintenance of a Web module integrated with MDMS which is used to monitor the Status of 1 BT Plan at CIL level.
- m. Sustainable Development Cell (SDC) under MDMS portal: The interface has been developed under MDMS portal for creation of SDC schemes and activities across CIL & subsidiaries with respect to
 - Air Quality Management,
 - Mine Tourism,
 - Renewable Energy,
 - Restoration of ecology and biodiversity, and

- Implementation of best practices in Coal sector.
- n. A clone for PARIVESH portal on EC/FC vetting: A portal has been created with respect to the forms 1,2,3,4,5 and EIA/EMP for vetting by the peers (Regional Institutes of CMPDIL), CIL & respective subsidiaries of the projects. After finalization of vetting and based on the comments the revised forms are getting uploaded in PARIVESH portal of Ministry of Environment, Forest and Climate Change (MoEFCC).
- o. A dashboard, Koyla Darpan, for MoC is being maintained which has information on Indian coal and lignite.
- p. Colony maintenance portal has been developed and is ready for implementation.
- q. CCO website is under development.
- r. Development of Coal Block Data Management System (CBDMS): The website provides various information of coal block like
 - No. of existing coal block and mines.
 - Total geological reserve.
 - Quantity of coal extracted so far.
 - Balance extractable reserves.
 - Exploration status of coal block.
 - Area of block and forest cover.
 - DGPS status of block boundaries.
 - Mining feasibility of block.
 - Expenditure made in Exploration.
 - Cost of sale of GR.

This website also gives the Map view of each block, Rail and Road corridor along with their details.

- 15.2. ERP with its 6 modules namely HCM, FICO, PM, PS, MM and SD has been implemented in CMPDIL. Primary MPLS connectivity with 100 Mbps bandwidth at HQ, DC & DR and 40 Mbps bandwidth

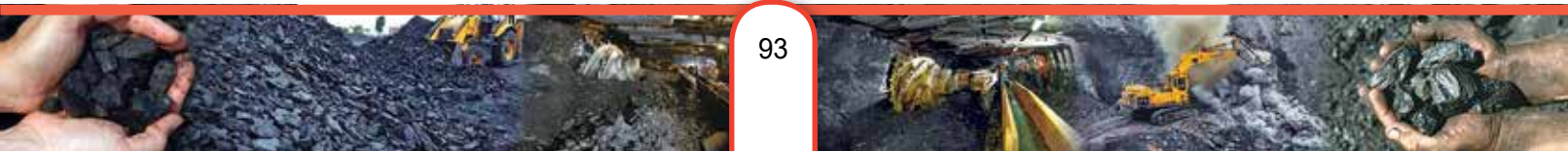
at RIs has been established by Railtel Corporation.

- 15.3. CMPDIL was entrusted with the task of the implementation of e-Office for entire Coal India Limited. The centralized infrastructure and MPLS connectivity has been established at all Subsidiary HQ locations and CIL. E-office is running in all the locations.
- 15.4. ICT Division has been doing the maintenance of Local Area Network with fibre optic backbone. All RIs have been connected with CMPDIL (HQ) through MPLS VPN Circuit. CMPDIL is having 1 Gbps dedicated Internet Leased Line through BSNL and 30 Mbps Secondary ILL through RailTel.
- 15.5. Coal India project server has been installed and made operational.
- 15.6. A portal for uploading of invoices from CMPDIL HQ and RIs has been developed which facilitates our client CIL subsidiaries to download the invoices and quickly process them. This will minimize the delay in payments of invoices to CMPDIL.

15.7 Innovation Cell

Some of the major jobs done during Financial Year 2021-22 by Innovation Cell have been outlined below.

1. SAS software platform has been procured for Data Analytics. Two phases of training for business and technical user have already been completed. Initial activities regarding identification and scoping of Projects for data Analytics are going on. Various meetings and workshop have been held with the stakeholders regarding the same.
2. Socio-economic report preparation under EIA-EMP report preparation- 11 projects of RI-4,5,6 & 7 have been submitted.



3. Laboratory reporting system for environment laboratory has been developed and successfully deployed.

15.8 S&T and R&D projects:

1. Indigenous development of IOT enabled technology for monitoring, analysis and interpretation of longwall shield pressure for improving safety and productivity- Prototype of shield pressure monitoring system has been developed and permission for implementation at Jhanjra longwall panel, ECI from DGMS is awaited. Software for monitoring, analysis and interpretation is being developed.
2. Development of indigenous optical fibre based instrument for measuring in-the-hole Velocity of detonation and analyse the performance of explosive in field condition.- For fabrication of networked, multi-station, multi-channel fibre optics based property of explosives measurement system (NOFPEMS), tender process is ongoing.

16. INFORMATION MANAGEMENT SYSTEM

The important activities/jobs carried out during the year 2021-22 are as follows:

16.1. Publication of quarterly magazines "Minetech" and "Gondwana Bharti"

Four issues each of the above said magazines have been published during the year 2021-22.

16.2. Dispatch of magazines:

Apart from in-house distribution, approximately 12000 copies of both the magazines were dispatched during the year 2021-22 to MoC, CIL and its different subsidiaries (HQ, Area and colliery unit), different institutes and other known organizations.

16.3. Publication of Book/ e-Newsletter

Publication of following books have been done during 2010-22:

- i. E-Book of Compendium of CVC/ CIL/MOC/DoPT/CMPDI Circulars & Guidelines published on the occasion of Vigilance Awareness Week 2020.
- ii. Preparation of e-News-letter of CMPDIL under the task assigned by Ministry of Coal under Media Plan of CMPDIL.

16.4. Sale of Book/Minetech

Sale of technical books & our in-house journal 'Minetech' in different subsidiaries of CIL and outside parties carried out as and when required by them.

16.5. Social media activities

HoD (IMS) has also been nominated as Nodal Officer of social media of CMPDIL. There are official Facebook page and Twitter handle of CMPDIL and regular uploading of important activities of CMPDIL, CIL & MoC are done. Apart from in-house activities, important information/achievement of Govt. of India, Ministry of Coal are also being shared. Social media activities are being also monitored from the office of Hon'ble Minister of Coal & Mines, Govt of India.

16.6. Special Achievements

- i. Despite the adverse effect on works due to COVID pandemic, regular printing and distribution of both the magazines carried out.
- ii. Two special issues of our in-house technical journal Minetech i.e. one on Clean Coal Technology published and the second on Coal Beneficiation is in the process of publication. Also one special issue of our in-house magazine Gondwana Bharti published on CSR works carried out by CMPDIL during 2021-22.

- iii. Printing of Leaflets on R&D in Coal & Lignite Sector done.
- iv. Due to continuous monitoring and follow up, the number of followers on social media like FB & twitter crossed the mark of 14780.

17. VIGILANCE

Vigilance activities and achievements during financial year 2021-22 is placed below:

17.1. Vigilance Awareness Week

Vigilance Awareness Week (VAW) - 2021 was observed in Central Mine Planning and Design Institute Limited, Ranchi (a subsidiary of Coal India Limited) at its headquarter in Ranchi and all its seven Regional Institutes from 26th October to 1st November 2021.

At CMPDIL (HQ) in Ranchi, the Pledge taking ceremony was organized on 26.10.2021 at 11:00 AM. Shri Sumeet Kumar Sinha, CVO, CMPDIL welcomed the officials.

Shri Manoj Kumar, CMD, CMPDIL administered the Pledge to all officials. Pledge was also administered at all Regional Institutes of CMPDIL by the respective Regional Directors.

Various activities were organized on the occasion of Vigilance Awareness Week, 2021 at HQ level and RIs. At HQ level, various activities as enumerated below were undertaken during Vigilance Awareness Week-2021:

Out-reach Programs

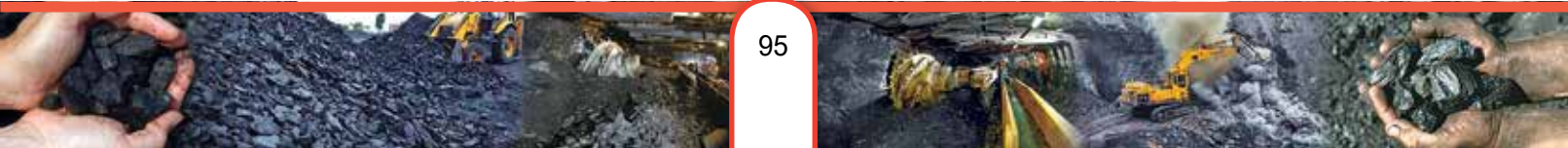
- a. Drawing Competition for school and college students through online mode.
- b. Debate Competition for school and college students through online mode.
- c. Slogan Writing Competition for school and college students through online mode.
- d. Walkathon and vigilance awareness programme at Birsa High School, Kanke Road, Ranchi, which was graced by the presence of Honourable MP, Ranchi, Sri Sanjay Seth.
- e. Cyclothon Competition, Gram Sabha and Vigilance Run at Hethu Village near Ranchi Airport.
- f. Vigilance awareness message through FM Radio.
- g. Canter movement and pamphlet distribution in Ranchi Municipal area for vigilance awareness generation.

In-house Programs

- a. Essay Competition for Executives.
- b. Essay Competition for Non-Executives.
- c. Quiz Competition for Executives.
- d. Speech Competition for Executives.
- e. Speech Competition for Non-Executives.
- f. Online workshop on Disciplinary Proceedings for Executives of CMPDIL.
- g. Concluding Session including address by dignitaries including Guest Speaker Dr. Prabha Kant, Principal Commissioner, Income Tax, Ranchi who deliberated on the subject of "How Vigilance Can Make Or Break An Organization".
- h. Launch of e-book on important Circulars / SOPs / Office Orders, etc. issued by CVC, DoPT, MoC, CIL and CMPDIL mainly during November, 2021 to October, 2021 and Prize Distribution to winners of various in-house and out-reach programmes.

Due care was taken to follow COVID-19 Protocol during outreach programs.

As per directives of CVC on awareness about PIDPI Resolution, a short film



Social media was used in a big way to spread awareness about Vigilance Awareness Week 2021 and its theme “स्वतंत्र भारत @ 75वां: सत्यनिष्ठा से आत्मनिर्भरता” (INDEPENDENT INDIA@75: SELF- RELAINCE WITH INTEGRITY)”.

At CMPDIL RI-I, Asansol, Pledge was taken at 11 am on 26.10.2021, Banners and pamphlets were distributed.

The pledge in Regional Institute-III, Ranchi was administered along with employees of CMPDIL (HQ). The awareness week was also observed at its three drilling camps. Speech Competitions were organized in Orla and Barkakana Camp for Employees and their family members. An interactive session on Vigilance Awareness was organized on 30.10.2021. A grievance Redressal Camp was also organized for Non-executives of RI-III, Ranchi on 30.10.2021.

and integrity. Posters and banners relating to vigilance awareness were displayed at headquarters and all the camps under RI-4 i.e Anandwan, Murpar and Durgapur Camp in Chandrapur District'. An Online Quiz and Extempore Competition were organized on 28.10.2021 and 29.10.2021 respectively. An awareness drive through a vigilance awareness walkathon on 27.10.2021 which was marked with sufficient participation of employees of RI-IV (HQ), Nagpur. A lecture on vigilance matters by Regional Director, Regional Institute-4, Nagpur through video conferencing which was followed by an interactive session.

At CMPDIL RI-VI, Singrauli, pledge was administered to the employees on 26/10/2021. A workshop on Importance of Integrity in the public life during the service was organized on 30.10.2021. On 29.10.2021 interactive session on vigilance matters along with HoD's with subordinates of different divisions lead by Regional Director, Regional Institute-VI, Singrauli was organized.

Vigilance Awareness Week was also observed at CMPDIL RI-VII, Bhubaneswar and pledge was administered to all its employees on 26/10/2021. Banners & posters were displayed. Quiz Competition for executives and Non-Executives and Drawing Competition among the school's Students were organized. 2 in house seminar on Procurement & Works procurement were also organized and

4 no. of Webinars and Gram Sabha in Brahmanbil village nearby Kosala camp was also organized.

17.2. Preventive Vigilance Activities

- a. Vigilance Department of CMPDIL has been oriented to take preventive measures in the area of contractual jobs/material procurement to prevent procedural lapses as well as financial loss to the company. Preventive measures are suggested by the Vigilance Department based on Surprise Check/Investigation conducted by it to keep an eye on corruption.
- b. Surprise Check at various Regional Institutes of CMPDIL were conducted on various aspects like payment to contractors, verification of cash vis-à-vis Book balance, verification of medical claims, scrutiny of tender files etc.
- c. Identification of sensitive departments and transfer/rotation of personnel occupying sensitive post for long are suggested by Vigilance Department which have subsequently been implemented.
- d. Annual Property Return scrutiny & Audit Para scrutiny.

17.3. System Improvement Measures

- a. SOP for timely Bill payment to contractors/ suppliers/ service providers.
- b. Definition of similar work in NITs of works/ services.
- c. Uniform Bill passing system across all RIs of CMPDIL.
- d. Third party OB check measurement is being done through 3DTLS, where CMPDIL is supposed to submit report within 15 days as per instructions of CIL. To ensure

the compliance, as per action taken by Vigilance Department of CMPDIL, a web based interface with controlled access is already in place on the website of CMPDIL for the purpose of monitoring.

- e. CMPDIL has been granted certification of Anti-bribery Management system ISO 37001:2016. by M/s Bureau of India Standards, Eastern Region, Kolkata, which is valid for a period of three years i. e. up to 17.01.2024.
- f. While preparing bids for purchase of items / equipment against surveyed-off item, analysis should be done to arrive at conclusion on whether to go for procurement with buy-back or through separate auction of scrapped items.

17.4. Pictorial Depiction of Vigilance Activities during VAW, 2021:



18. GEOMATICS

CMPDIL provides services in the field of Remote Sensing and Surveying. The major work include Land Reclamation Monitoring, OB measurement, Vegetation Cover Mapping, Land Use / Cover Mapping, Settlement Mapping, Coal Mine Fire Mapping, DGPS survey, Topographical Survey, Underground Correlation Survey, Drone based Surveys for various applications etc.

18.1 Remote Sensing Cell

■ Land Reclamation Monitoring

CMPDIL has been carrying Land Reclamation Monitoring of CIL mines on a regular basis based on high resolution satellite data. In the year 2021-2022, Land Reclamation Monitoring of total 105 projects comprising of 76 Opencast Projects producing more than 5 mcm (Coal+OB) p.a. category and 20 opencast projects and 09 clusters producing less than 5 mcm (Coal+OB) p.a. category under different subsidiaries of CIL have been successfully completed.

■ Vegetation Cover mapping

Vegetation Cover Mapping of CIL Coalfields based on high resolution satellite data is being done regularly for assessment of impact of mining on land use/vegetation cover in the coalfield region. During the 2021-22, Vegetation cover mapping of six coalfields viz Bander (WCL), Korba (SECL), Singrauli (NCL), East Bokaro, West Bokaro Coalfields and North Karanpura & South Karanpura Coalfield (CCL) has been successfully completed.

■ Land Use / Cover Mapping

Land Use Cover Map for the leasehold area of 6 UG projects of SECL was also completed during 2021-22 for MoEF & CC compliance.

■ Core & Buffer Zone Mapping

Land Use / Cover Mapping of Core & Buffer Zone based on satellite data of 33

Projects were done during 2021-22 for incorporation into EMPs.

■ Drone based Survey in outsourcing mode

In order to expedite the application of drones in coal industry, CMPDIL has taken action for hiring of drone service providers for establishing its efficacy in various applications in coal industry. The first work against open tender for NCL was awarded in March 2021. This work has been completed and the Report has been submitted to NCL. The second tender for work in SECL has also been awarded in the month of November 2021. This work is under progress at Korba Coalfields, SECL. The tenders for other subsidiaries is awaited for necessary approvals from concerned subsidiaries.

18.2 Survey

■ OBR/ OB+Coal Measurement

Survey in 224 Contractual Patches and 29 departmental mines of CIL, done. OGL and excavation measurement jobs done in Pakri-Barwadih, Dulanga & Talaipalli Coal Mining Projects of NTPC.

■ DGPS Survey

- DGPS, Topographical Survey & Block Boundary Demarcation of Chakla Coal Block of M/s Hindalco completed.
- Survey for Preparation of DPR for diversion of Kedla nallah under Kedla open cast project of Hazaribagh area completed.
- Verification of GR & Block Boundary coordinated of Penagaddappa Coal Mine of SCCL done
- Establishment of Base stations & verification of contours of approved MP of Suliyari Coal Mine-APMDC, done.
- DGPS survey for preparation of Shape & Kml files for forestry clearance of nine (9) projects, were done.

■ Drone based Survey

- UAV survey of Block E, BCCL (About 19 Sq.km) to prepare contour map of the area - completed.

19. MINING ELECTRONICS

Mining Electronics Division of CMPDIL renders services in preparing Feasibility Reports, Detailed Design Reports and Tender Documents for establishing communication network, Telemonitoring of Environmental Parameters for U/G and O/C mines. It also renders valuable services to subsidiary in repairing of Imported/Indigenous HEMM Electronic control cards for Shovel, Dumpers and Draglines etc. The department has also undertaken different R&D/S&T Projects for Open Cast and Underground Mines related to productivity and safety of mines. The following jobs were completed/ operational during the year.

19.1 R&D/S&T Projects

- 1) MoC S&T Project – “On-line coal dust suppression system for Open Cast Mine”- Ashoka opencast mine, CCL. – Field Trial of the system with 13 base unit and 2 pro unit is successfully completed along with automatic sprinkling system in RCM siding.
- 2) MoC S&T Project – “Indigenous development of Early Warning Radar System for Predicting Failure/Slope Instabilities in O/C Mines”-SAR successfully installed at Dudhichua, NCL. Field trial is in progress.
- 3) CIL R&D Project- “Indigenous development of Through the Earth (TTE) two-way Communication system for Underground mines”- Field trial of Receiver and Transmitter part successfully completed as per DGMS guidelines.
- 4) Development of an Indigenous Optical Fiber Based Instrument for Measuring In-The-Hole Velocity of Detonation (VOD)

and Analyze Performance of Explosives in Field Condition. - In Progress.

- 5) Indigenous Development of Monolithic Perovskite Module Manufacturing by Printing. –In Progress.
- 6) Real-Time Energy Efficient Cyber-Physical Intelligent system for mine slope health Monitoring. –In Progress.

19.2 P&D/NIT/other jobs

- 1) Chapters on Electronics & Telecommunication for 29 Nos. of UG and OC mines for inclusion in Project Reports of different subsidiaries of CIL and outside agencies have been prepared.
- 2) Preparation of Technical Specification for CCTV system for RI-V Bilaspur office building. - Submitted.
- 3) Technical specification of DGMS approved Environmental Tele-monitoring system at Churi U/G mine, NK Area, CCL. - Submitted.
- 4) Automation and communication chapter for Parej East UG mine, CCL. - Submitted.
- 5) Preparation of NIT for Audio Visual multimedia system of CMPDIL Earth Science Museum is in progress.

19.3 Repairing/Testing of Electronic Cards

- 1) Repairing of electronic HEMM control cards -22 Nos.

20. COAL CHARACTERISATION & LABORATORY

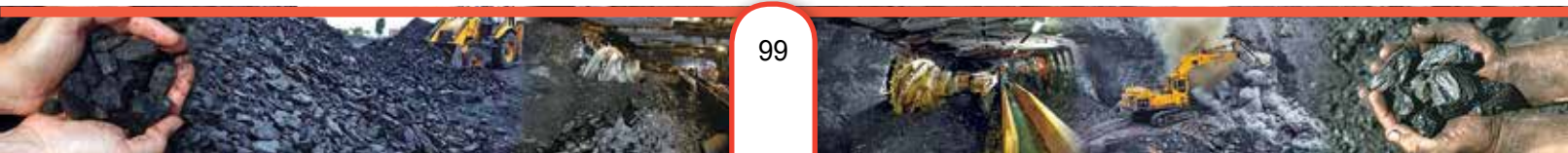
20.1. Financial Achievement

The total revenue generated by CC Lab for the financial year 2021-22 is Rs. 8.36 Cr approximately.

20.2. Special Achievements:

(a) ACCREDITATION

- The Geo-Chemical Laboratory has been accredited with



NABL certification which is in accordance with the standard ISO/IEC 17025:2017 for its facilities at CMPDIL (HQ) Ranchi in the field of "TESTING" in 12 different scopes/test parameters. The certificate is valid from 28th Jan 2022 to 27th Jan 2024.

- Three petrographers of Coal Petrography Lab have been accredited by International Committee for Coal and Organic Petrology (ICCP). This certification qualifies the CMPDIL's petrographers to undertake any kind of petrographic analysis which will be acceptable at National and International Level. The validity of the certificate is upto February 2023.

(b) S&T PROJECT

- 1 no. of S & T project titled "Assessment of Rare Earth Elements and other economic resources in Coal and Non-Coal strata and characterization of Acid Mine Drainage (AMD) and its pollution control from the North Eastern Region (NER) coalfield, India", is in progress. Findings on presence of some critical REE in coals from Tikak, Tipong and Tirap area are encouraging.

(C) Empanelment of Coal Testing Lab

- Two coal testing labs namely M/s Mitra SK Kolkata and M/s Suntech Ranchi have qualified for empanelment under Expression of Interest (EOI) for "Empanelment of coal testing laboratories for analysis of Coal Cores of Exploration Blocks from Different Coalfields".

20.3. Outside Consultancy

- 9 nos. of imported coking coals from BLA coke Gujarat were tested and results communicated on time.
- 13 coal samples from Pengadappa block SCCL were tested.

20.4. Procurement of equipment

Out of 13 nos. of equipment to be procured, tender process for 12 nos. of equipment has been initiated and are in different stages of procurement. S.O for Plastometer, CHNS Analyzer and Swelling Index has been placed.

21. MATERIAL MANAGEMENT

The following highlights of activities for the year 2021-22 are as under:-

21.1 SUPPLY ORDERS:

Sl. No.	Particulars	2020-21 (₹ in Crore)	2021-22 (₹ in Crore)
1.	Total Procurement Value	34.45	77.42
2.	Total Value procured from MSEs (Including SC-ST and Woman Entrepreneurs)	17.31	47.23
3.	% Age of procurement from MSEs	50.25%	61.00%

The % of procurement from MSEs is well above the government of India mandated target of 25%.

21.2. GeM:

Particulars	2020-21	2021-22	Remarks
Value of Supply order (In Rs Crores)	15.10 Cr	56.99 Cr	The % of procurement from GeM for 21-22 is 73.60% of total procurement of the year; well above the mandated target of 25%.

21.3. CONTRACTS FOR CAPEX:

During the year (2021-22) following contracts were placed towards Capex

No. of Contracts	Value (₹)
55 Nos.	26.05 Crore

21.4. TARGET (2022-23):

The Targeted Annual Procurement for Financial year 2022-23 is ₹50.00 Crore out of which ₹15.00 Crore (Approximately 30%) is estimated for procurement from MSEs subject to participation of MSEs in the tenders issued by CMPDIL.

22 HUMAN RESOURCE DEVELOPMENT

During the year 2021-22, Online/Offline Training/Conference /Seminar/Workshop Data of CMPDIL is as under:

Major Area	STC	IICM	External	Foreign	Total
Managerial	107	27	42	00	176
Technical/ Functional	382	107	158	00	647
Cross Functional	37	6	15	00	58
Total	526	140	215	00	881

Special exposures were given to our employees in the following areas:

22.1. Training at Staff Training College (STC)

Training & Development is an integral part of employee's growth. Therefore in CMPDIL an attempt has already been made to ensure that their holistic development continues throughout the years. In this regard during 2020-21 **526 employees have been trained both ONLINE & OFFLINE**, against the target of 500 employees on different technical & non-technical subjects which are need based and customized, some of them are mentioned below :-

1. Induction training program for contractual guards at CMPDIL(HQ)

2. Training on drone/uav operation data capturing through sensors and data processing by (CASR) & other OEM
3. Training on Differential Global Positioning System (DGPS)/global navigation satellite system(GNSS) and data processing
4. Training on ERP MM module / HR module/ Finance module/ PM module/ SD module
5. Online training on aura of vigilance in contract management and purchase manual 2020
6. Webinar on the eve of vigilance awareness week 2021
7. Training on Big Data Management & Intellignet analytics Software
8. TIs instruments training by M/s meatech solutions llp.
9. Online training on Anti-Bribery Management System, ISO 37001, 2016.
10. Training on Seismic Data processing & interpretation on Paradigm Software.
11. One day awareness training program on ISO 9001:2015 & documented arrangement of CMPDIL.
12. Online workshop on cda rules of CIL & CSO (certified standing order)
13. Training on ERP etc.

22.2. Training at IICM

Every year HRD Division nominates large number of senior and middle level executives for training at IICM as per IICM's annual calendar. Nominations are being made as per the recommendation of different Head of the Divisions & Regional Directors, based on the requirement of company & customer's need. During the year

2021-22 total 140 executives against the target of 50 persons have done online/ offline trainings at IICM.

22.3. External Training

Every year from different disciplines, executives are being sent to different reputed organizations / reputed institutions for attending Training, Conference, Workshop, and Symposium etc. related to technical/ managerial skill up gradation and to be at par with the latest technical developments? This year 215 nos. of executives and non-executives against the target of 50 persons have attended ONLINE/ OFFLINE programs from different places in India.

Names of some institutes where our employees attended programs are as under:-

- National Institute of Technology, Nagpur.
- GSI Field Training Institute, Jaipur.
- National Institute of Training for Standardization Bureau of Indian Standards, Noida.
- ISNT, New Delhi.
- ICFRE, Dehradun.
- ASCI, Hyderabad.
- NITS, Noida.
- IIM, Indore.
- IIM, Lucknow.
- CGWB, Training wing Raipur.
- MIT, Anna University, Chennai.
- ISNT, Jamshedpur, Chapter etc.

22.4. Internship training at CMPDIL for students of different institutions

Summer & winter internship training to the students of various institutions are being imparted by HRD Division at different regional institutes of CMPDIL

and HQ. Total 60 numbers of students have been trained at CMPDIL during 2021-22. The students have undergone these Trainings / Project works for 4-6 weeks in their respective fields. After completion of training / Project and on submission of their project reports, HRD Division issues certificates for successful completion of Training / Project. The Institutions approached for training are :-

- VIT VELLORE,
- BHU VARANASI,
- BIT RANCHI,
- IIT(ISM) DHANBAD,
- XISS RANCHI ,
- IIT BHUBANESHWAR ,
- KIIT BHUBANESHWAR,
- CHANKAYA NATIONAL LAW UNIVERSITY PATNA,
- IIT KHARAGPUR,
- NIT ROURKELA ETC.

22.5. Apprentices Training as per Apprentice Act 1961

As per the MoU, CMPDIL has to achieve 2.5% target of average manpower of CMPDIL including contractor workers (i.e 4167 as on 31st March'2021). CMPDIL has engaged 181 apprentice's which is 4.34% This includes 135 Diploma Holders & 46 Degree Holders in various disciplines viz. drilling, mechanical, civil, computer science, mining etc. and are placed in different RI's & HQ of CMPDIL

22.6. Additional Achievement- People Capability Maturity Model (PCMM)

Strengthening of ML- 2 & Assessment of Maturity Level - 3 , Competency Mapping for 200 employees of CMPDIL including relevant Competency descriptions within defined timeline has been done.

The assessment of CMPDIL for Maturity Level -3 has been accomplished and final report of PCMM ML-3 has been submitted by Maclead Pvt Certification on 18th Oct'2021.

22.7. Training in Centre of Excellence

Continuation of Talent Management & career progression by imparting at least 1 week training of at least 5% of Executives (E1 & above i.e.810) in Centre of Excellence within India e.g. IITS, IIMs, NITS, ISNT, NPC,ICAI, IIRS, GSI etc. CMPDIL has achieved i.e.96 executives trained in center of Excellence i.e. 11.9%.

23.0 MANPOWER AND WELFARE ACTIVITIES

23.1. Status of Manpower:

Particulars		As on March 31, 2021	As on March 31, 2022
Executive		830	795
Non-Executive	Monthly Rated	1091	1002
	Daily Rated	1154	1149
	Piece Rated	02	02
	Grand Total	3077	2948

23.2. Welfare Activities

Sl. No.	Programme	Date
1.	Celebration of Ambedkar Jayanti	14 th April 2021
2.	Observance of Anti-Terrorism Day	21 st may 2021
3.	Independence Day Celebration	15 th August 2021
4.	Celebrity Football Match	15 th August 2021
5.	Birth Anniversary of Mahatma Gandhi	02 nd October 2021
6.	Vaccination Camp in Birsha School, Kanke Road, Ranchi	02 nd October 2021
7.	Run For Unity on the occasion Sardar Vallabh Bhai Patel Jayanti	31 st October 2021
8.	Constitution Day	26 th November 2021
9.	Communal Harmony	23 rd November 2021
10.	Foundation day Celebration	1 st November 2021
11.	Workshop on Gender Awareness and Gender Sensitization	6 th December 2021
12.	Selection Trail to select HQ Team for INTER RI Tournament for Volley-Ball, Carrom, TT, Bridge & Chess	December 2021
13.	CMPDIL (HQ), Team also participated in INTER RI Volley Ball, Chess & Bridge Tournament organised by RI-I (ASANSOL), RI-VII (BHUBANESHWAR) & RI-IV (NAGPUR) respectively, HQ Team become Champion in Chess & Bridge Tournament	December 2021
14.	Republic Day Celebration	26 th January 2022

Sl. No.	Programme	Date
15	<p>Celebration of the “ iconic week ” of Azadi Ka Amrit Mahotsav from 7th to 13th March'2022. The purpose of generate awareness and sensitization to the workers about their rights under different Laws and also to generate awareness and sensitization in the Employers so as to improve compliance and to fulfil the responsibilities assigned to them under various Labour Laws. Accordingly, programme is for reaching awareness to the workers including unorganized workers, trade unions, employers and other stakeholder.</p> <p>CMPDIL, Ranchi was selected for conducting the programme on 10.03.2022 from 10.30AM. Hence, all necessary arrangements were made in CMPDIL Play Ground.</p> <p>Sri S. Swain, RLC(C) Ranchi alongwith Chief Guest, Sri Abhijit Dutta (Visiting Faculty of IIM, Ranchi), Sri MA Khan, Welfare Commissioner, Sri Doraiburu, Ex. Dy.CLC(C) visited and addressed the Contract Labours, Contractors, Trade Union Leaders, Principal Employers etc. and shared very important information and also circulated Pump-late. CMD, CMPDIL was also present on the occasion as “विशिष्ट अतिथि”.</p>	10 th March'2022

23.3. Major Information related to Executive Establishment for the Year 2021-22 :

Sl. No.	Annual Work plan	Action taken
1.	Settlement of Terminal benefits	35
2.	Payment of Life Cover Sheme	01
3.	Issue of medical cards under CPRMSE	51
4.	Leave Encashment on Superannuation Cases receive	34
5.	Settled	24
6.	Under Process	10
7.	Medical refer Cases	387

23.4. Information related to RTI during the year 2021-22:

Sl. No.	Work Description	Action taken
1.	Total No. of applications received	214
2.	Applications disposed off during the year	156
3.	Under process	58
4.	Appeal received during the year	06
5.	Appeal disposed off	06
6.	Balance	00
7.	CIC (2 nd Appeal Application received)	02
8.	CIC Appeal Disposed off	02

23.5. Information related to CPGRAM during the year 2021-22

Sl No.	Grievances Source	Total Application received	Application Disposed Off	Balance/ Under Process
1.	Local/internet	13	12	1
2.	Pension	1	1	0
3.	PMO	7	6	1

23.6. Information related to VIP reference during the year 2021-22:

SI No.	Grievances Source	Total Application received	Application Disposed Off	Balance/ Under Process
1.	Local/internet	34	34	0

23.7. Status of Pension during the Year 2021-22:

SI No.	Total Cases received during the year	Settled	Pending		Balance/ Under Process
			CMPDIL	CMPFO	
1.	108	53	7	48	

23.8. Information related to Non-Executive employees during the year 2021-22:

SI. No.	Annual Work plan	Action taken
1.	Settlement of Terminal Benefits	117
2.	Payment of Life Cover	16
3.	Issue of Medical card Under CPRMSNE	155
4.	Leave Encashment on Superannuation Cases Received	96
5.	Settled	62
6.	Under Process	34

23.8. RAJBHASHA

Your company continued to implement the statutory provisions of the Official Language Act, Official Language Rules and the directives of the Ministry of Home Affairs (Official Language), Ministry of Coal, Coal India Limited and Town Official Language Implementation Committee and made multidimensional efforts to enhance the progressive use of Official Language Hindi in official work during the period under review.

Your company achieved the target of Hindi correspondence in Region "C" and was very close to achieve the target of Hindi correspondence in Region "A" & "B" fixed by the Ministry of Home Affairs, Department of Official Language, New Delhi in its Annual Programme during the year under review.

Besides, documents under Section 3 (3) of the Official Language Act, the minutes of the different meetings held at the level of CMD/Directors, the Monthly and Annual Reports of your company also continued to be prepared bilingually. The publication of "Gondwana Bharati", a Renowned & National Level House Magazine of your company also continued to promote the creative writing in Hindi, which was praised all over the country.

In the month of September 2021, "Raj Bhasha Mah" was organized as per the directives of Ministry of Coal. In order to promote and make Hindi popular among the employees of the company, several Hindi competitions were organized during the month. A large number of employees participated in all the competitions held during the month. Winners were awarded first prize of Rs. 5000, second prize Rs. 4000, third prize Rs. 3000 and consolation prize Rs. 800. All prize winners were also awarded certificate in their respective category. In addition, remainder participants were also awarded.

As per the Directive and Annual Programme issued by Department of Official Language, Ministry of Home Affairs, New Delhi inspection of RIs and different department of headquarters was also done.

Quarterly meetings of Official Language Implementation Committee were also organized under the Chairmanship of CMD to review quarterly progress of Official Language in different departments of your company as per the Directive and Annual Programme issued by Department of Official Language, Ministry of Home Affairs, New Delhi.

Your company were also organized two half yearly meetings of Town Official Language Implementation Committee (PSU), Ranchi (Nagar Rajbhasha Karyanwyan Samiti) under the Chairmanship of CMD to review progress of Official Language in different PSUs.

24. DISCLOSURE AND INFORMATION UNDER SEXUAL HARASSMENT TO WOMEN:

The numbers of complaint or cases of sexual harassment to women at working place in CMPDIL has been reported during the year 2021-22 under the disclosure and information under Sexual Harassment to Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 is as follows:

1. Number of sexual harassment complaints received in a year - Nil
2. Number of complaints disposed of in a year - Nil
3. Number of cases pending for more than 90 days - Nil
4. Number of awareness programs or workshops against sexual harassment conducted in a year - 01

Nature of action taken by the employer or District Officer with respect to the case – N/A

25. Achievement against Physical Parameters of MoU 2021-22 between CMPDIL & CIL

25.1. Growth in sales from business outside Coal India & MoC over previous year i.e. 2020-21:

As per MoU 2021-22 of CMPDIL, under the head 'Growth in sales from business outside Coal India & MoC over previous year i.e. 2020-21 (%)', Sl. No. 7', the target for attaining 'Excellent' rating was growth of 30% in sales from business outside Coal India & MoC over previous year i.e. 2020-21. Against this target, 54.39% growth in sales from business outside Coal India & MoC over previous year i.e. 2020-21 has been achieved during 2021-22.

25.2. Drilling:

As per MoU 2021-22 of CMPDIL, under the head 'Drilling (in Lakh Meters)', Sl. No. 8', the target for attaining 'Excellent' rating was 7.50 lakh metres of drilling. Against this target, 7.91 lakh metres of drilling was carried out during 2021-22.

25.3. R&D Expenditure:

As per MoU 2021-22 of CMPDIL, under the head 'R&D Expenditure (Rs. Crore)', Sl. No. 11', the target for attaining 'Excellent' rating was R&D Expenditure of Rs.30 crore. Against this target, R&D Expenditure of Rs.31.2 crore has been made during 2021-22.

25.4. Acquisition of data through 2D/3D Seismic Survey:

As per MoU 2021-22 of CMPDIL, under the head 'Acquisition of data through 2D/3D Seismic Survey (Line KM)', Sl. No. 12', the target for attaining 'Excellent' rating was acquisition of data through 2D/3D Seismic Survey for 860 Line KM. Against this target, 864.99 Line KM of data through 2D/3D Seismic Survey was acquired during 2021-22.



26. Coal India Foundation Day celebrated in CMPDIL.

Ranchi 8th November: CMPDIL, a Mini-Ratna Company, celebrated the Coal India Foundation Day with full fervor on 8th November, 2021 at Rabindra Bhawan, CMPDIL. The Chief Guest of this occasion, Shri Sunil Kumar Barnwal (IAS), Joint Secretary, Ministry of Home Affairs, Govt. of India said that Coal India & CMPDIL is the back bone of the country and play an important role in growth of coal industry as well as country and every citizens are indebted to Coal India. He said that CMPDIL can play big role for earth science related industry through addition of some extra resources. He emphasized on utilization of NMET fund for exploration of coal and other mineral resources. CMPDIL should develop culture of innovation, explore and promote new ideas/technologies for serving industry and create new value in the society to be relevant.

On this occasion, Shri Manoj Kumar, CMD, CMPDIL highlighted the achievement of CMPDIL and stated that total prognosticated coal bearing area of the country has been assessed to be about 32761 sq km, an increase of about 69% over the earlier estimate of 19,400 sq km. which will help in identification of new coal blocks.

Shri Kumar stated that a working group on Coking Coal Mission was constituted by Coal India Ltd. in November, 2020 and a report "Report on Coking Coal in CIL Blocks, December, 2020" was submitted by CMPDIL based on which Govt. of India launched the "Coking Coal Mission." Due to rigid environment control measures, 35 First Mile Connectivity (FMC) projects were selected to increase coal handling efficiency through employing alternative transport methods

like mechanized conveyor system and computerized loading in railway rakes. Tender documents for all 35 FMC projects of various subsidiaries of CIL were prepared and successfully floated by CMPDIL. He further stated that in the field of environmental services, CMPDIL is undertaking specialized services like cost benefit analysis of coal projects, river protection plan, riverine eco-system studies, sand replenishment studies in the State of UP, etc.,

Awards in different categories were given to the employees of CMPDIL for excellent performance in their respective area of operation. On this occasion, based on drill productivity, Singhpur Camp, RI-V, Bilaspur got the award for the best drilling camp (Mechanical) and Kudumkela Camp, RI-V, Bilaspur (Hydrostatic) category.

Under the best drill crew category award (highest productivity), crew of CDM-1000-04, Rajnagar, RI-V, Bilaspur, and KR-WAIIIC-12 Bishrampur, RI-V, Bilaspur got the award for mechanical and hydrostatics drills, respectively.

For best performance in report preparation, awards were given to Shri Saiket Chatterjee, CM (Mining) for Opencast Report and Shri V Madhukar, Sr. Manager (Mining) for Underground Report, Shri Somnath Ray, CM(Geology) and his team for Geological Report, Shri Abhishiek Kumar Singh, RI-I, Asansol for Environmental Services;

RI-VII, Bhubaneswar & CMPDIL(HQ) Ranchi; B Satish, Dy Manager (Geology) and Dharmendra Kumar, Dy. Manager (Finance) got the award for outstanding performance in 'Lab', 'Exploration' and 'Financial' services, respectively.

RD, RI-VII, Bhubaneswar, got the award for maximum value of outside consultancy jobs obtained in 2020-21;



RD, RI-IV, Nagpur for Maximum growth in outside consultancy jobs in 2020-21. GM (Blasting), HQ for obtaining the outside consultancy for the first time.

Awards for 'Innovation' for venturing CMPDIL into tunnel survey by successfully executing Gyroscopic Survey at Katra-Banihal section of Udhampur-Srinagar-Baramulla Rail Link (USBRL) for IRCON for a team of Shri Subhomoy Sinha, Shri Suprabhat Ghosh and Shri S.Sen. And for a team of Shri Milen Sen and Shri Ritesh Kumar for developing a website on S&T activities in Coal & Lignite sector to promote R&D activities of MoC.

Under CSR, RI-II, Dhanbad got the award for maximum utilization of CSR Budget in 20-21 and Regional Institute-VI, Singrauli got the award for maximum expenditure in remote areas, amongst all the RIs.

Shri Tushar Verma and his team, Shri Lakshmi Deep and his team, Dr. Shreedhar Bhat and his team, Shri A.K. Singh and his team, Shri Pushp Raj Varma and his team; Shri Devendra Prasad Singh, Shri Ashish Agarwal, Shri Jasbeer Singh; Shri Manish Jain; Shri B.Dey; Shri Bharat Kumar Gazaresen; Dr Vinita Arora and her team got 'Special Achievement' awards.

Additionally Shri Amarjeet Singh, Ms. Arpana Sinha, Shri Vats Priyesh; Shri Kushagra Nigam; Shri Shubam Sisodiya, Ms. Gargi Pandey, Shri Hemant Kumar Chauhan got the 'Young Executive' awards. Moreover, Shri Rajarshi Nath,



Shri Santosh Kumar Singh, Shri Chandan Pandey, Shri Inderjit Sen got awards in their respective field of services in Non-Executives category.

On this occasion, Shri R.N. Jha, Director (T/RD&T); Shri A.K. Rana, Director (T/P&D); Shri S.K. Gomasta, Director (T/CRD/ES); Shri Sumeet Kumar Sinha, CVO; GMs/HoDs, members of JCC, representatives of CMOAI were also present. The celebration started with lighting of lamp and Corporate Song of Coal India Limited.

27. Activities of Forum of Women in Public Sector (WIPS) CMPDIL in 2021-22.

The office bearers and Executive Members of the newly formed "Functional Management Committee" of WIPS, CMPDIL Chapter (HQ & RI – III) as follows:

1. Smt. Sunita Mehta, GM (P&A) : Coordinator/ President
2. Smt. Vinita Arora, Chief Manager (Env) : Addl. Coordinator/ Vice President
3. Smt Zeba Imam, HoD(CC Lab) : General Secretary
4. Smt. Ritu Singh, AM (Finance) : Treasurer

27.1. Workshop for creating awareness among women employees

A one-day awareness session on "Sexual harassment of women at workplace prevention, prohibition and redressal" was conducted on 6th Dec. 2021. Dr. Prof. Raman Ballah Sr. Resource person Indian Institute of Corporate affairs conducted the session.

The one-day session was attended by 30 women employees and 5 male employees. The session was

educative both for men and women working together w.r.t. their conduct and behavior in office. Prevention, prohibition and redressal of sexual harassment at workplace was discussed at length by Dr. Prof. Ballabh.

27.2. Health and Wellness program

- Collection and donation of sanitary napkins to an NGO for distribution in nearby villages in Month of April 2021.
- On occasion of Gandhi Jayanti on 2nd October 2021, Covid vaccination drive was carried out in association with CMPDIL dispensary at Birsa Uuch Vidyalaya Kanke. Around 200 people of the nearby village got vaccinated.
- On 4th March 2022, health talk and health checkup related to prevention of cardiac disease and life style management was organized in STC. Dr Ashutosh Kumar DM Cardiology Medantta Hostipal was the key speaker along with his team from Medantta Hostipal. The session was attended by both male and female employees of CMPDIL along with their wards.

27.3. Skill Development program

- A project Swabhalambi under Atma-Nirbhar Bharat is being carried out by WIPS, CMPDIL which aims at providing skill development and employability to underprivileged women of Hatma Basti and nearby areas of Kanke Road. Under this program, the women are being trained in tailoring with the help of master trainer from Usha International Limited, Patna. The development program is organised collectively

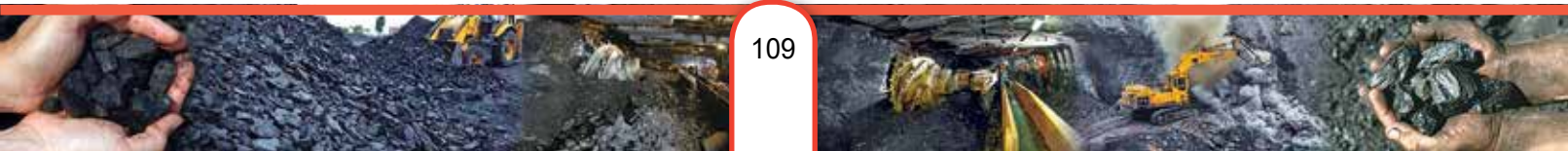
by CSR CMPDIL, WIPS and Usha International Limited.

- The 2nd batch of 15 nos of underprivileged women/girls got enrolled on 15th July 2021 for undertaking the 6 months training course by M/s USHA. Mrs. Sunita Mehta, GM (P&A)/ Co-ordinator WIPS, CMPDIL, Mrs. Zeba Imam, HoD C C Lab/ General Secretary, WIPS CMPDIL, Mrs Mamta Toppo Executive Body member along with other members of WIPS inagurated the program The features and benefits of the program was explained to all the participants.
- The participants have been imparted 6 months training from July-Dec 2021 in stitching and tailoring. They have also received certificate from USHA sewing Machine as trained and qualified tailors. They are qualified to give training to others as well as capable to run their own tailoring shops.

27.4. Welfare program

➤ Literacy program

WIPS CMPDIL, with an aim to bring solace to the needy, runs free of cost classes for the underprivileged children of nearby areas at Gondwana Primary School, CMPDIL campus, Ranchi. Underprivileged children are being given free education by volunteers of WIPS after office hours and on holidays. The program is being carried out under supervision of Smt Amita Mehta Clerk Grade III MT Lab.



➤ Collection and distribution of old clothes

WIPS CMPDIL is carrying out the collection and distribution of old clothes to the needy people throughout the year.

➤ Distribution of essentials during Covid 2.0

WIPS CMPDIL distributed around 100 nutritional food packets, medicines, face mask etc to the contractual female workers at CMPDIL during June 2021.



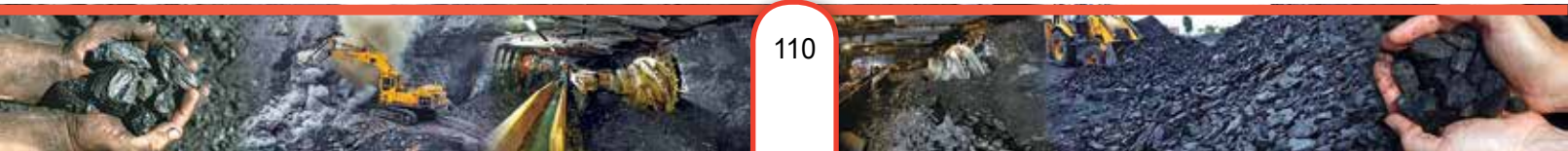
➤ Fest

A 2 days fest TARANG was organized in CMPDIL campus on 6th and 7th March 2022 in association with Kasturi Mahila Sabha CMPDIL to showcase the talent of women entrepreneurs mostly from Jharkhand. It was a step towards the mission ATMA-NIRBHAR BHARAT. Women entrepreneurs across the age participated in this event. Stalls included clothes, handicraft, plantation and various foods. CMPDIL offered wider platform to all these entrepreneurs to contact many prospective customers.

The Fest was inaugurated by Smt Ruplai Gupta, President Kasturi Mahila Sabha CMPDIL and was graced by Shri Manoj Kumar CMD CMPDIL, Shri R.N.Jha Dir T/RD&T CMPDIL, Shri.S.K Gomasta DirT/CRD and Shri A.K.Rana ex-Dir T P&D CMPDIL. The event was very successful and it got wide media coverage.

➤ Celebration of International Women's Day on 8th March 2022

International Women's day was celebrated at CMPDIL (HQ) on 8th



March 2022. The theme of this yr was BREAK The BIAS “Gender Equality Today for a Sustainable Tomorrow”.

Shri Manoj Kumar CMD CMPDIL presided the function as the Chief Guest. Firstly, the message of Hon’ble Chairman CIL Shri Pramod Agarwal on occasion of Women’s Day was read out wherein Chairman CIL has extended his congratulations to all women employees of CIL. CIL takes pride in mentioning that there are women employees in almost all sectors of coal industry. CMD, CMPDIL then emphasized that in every sphere of life women have vital roles to play and for a prosperous tomorrow the society should be free of any gender biasness.

The key speakers of the event were Ms. Kamakshi Raman ED HR MTI SAIL and Ms. Yashodhara, Dy. S.P Cyber Cell Crime Ranchi. Both the speakers highlighted efforts taken by working women in maintain work life balance. They also encouraged women to take up challenges and strive for excellence.

A short cultural program was also presented by women employees of CMPDIL and members of Kasturi Mahila Sabha.

The program was attended by more than 200 people from CMPDIL and Kasturi Mahila Sabha.

28. DIRECTOR'S RESPONSIBILITY STATEMENT:

- 28.1. In the preparation of the annual accounts, the applicable accounting standards had been followed along with proper explanation relating to material departures.

28.2. The Directors had selected such accounting policies and applied them consistently and made judgments and estimates that are reasonable and prudent so as to give a true and fair view of the state of affairs of the company at the end of the Financial Year and of the profit or loss of the company for that period.

28.3. The Directors had taken proper and sufficient care for the maintenance of adequate accounting records in accordance with the provisions of this Act for safeguarding the assets of the company and for preventing and detecting fraud and other irregularities.

28.4. The Directors had prepared the Annual Accounts on a going concern basis.

28.5. The Directors confirmed that they had devised proper system to ensure compliance with the provisions of all applicable laws and that such systems were adequate and operating effectively.

AUDITORS:

On the advice of the Comptroller and Auditor General of India M/s. LODHA PATEL, WADHWA & Co., Chartered Accountants, Ranchi were appointed as Statutory Auditors of the Company for the Financial Year 2021-22.

ACKNOWLEDGEMENT :

Your Directors are grateful to the Government of India particularly the Ministry of Coal, Coal India Ltd., and its Subsidiaries, State Governments and other Public Sector Undertakings with whom your Company has to work in close contact for their co-operation and encouragement in fulfilling the tasks of the Company. We are thankful to our



esteemed clients for the confidence reposed in us and the patronage extended to us and to the dedicated employees of the company.

ADDENDUM :

Information as required to be given in the Directors' Report under Section 134(3) (m) of the Companies Act, 2013 on conservation of Energy, Technology absorption and Foreign Exchange earnings and outgo, Research and Development, CEO and CFO certification, Extract of Annual Return under section 92 of the Companies Act, 2013, Auditor reports on compliance on Corporate Governance, the reports of Statutory Auditor and Management replies, Secretarial Auditor's Report and replies of management Comments of the Comptroller & Auditor General of India under section 143 of the Companies Act, 2013, reports on MoU 2021-22 and Information on details of remuneration etc. of Managerial Personnel are also Annexed to this report.

For and on behalf of the Board of Directors

(Manoj Kumar)

Chairman-cum-Managing Director

Ranchi

Date: 21.07.2022

Addendum - I

ANNEXURE TO DIRECTORS' REPORT

Information as required to be given in the Directors' Report under Section 134(3) (m) of the Companies Act, 2013 read with the – matters to be included in Board's Report, Rule- 8 regarding conservation of energy, technology absorption and foreign exchange earning and outgo.

A. CONSERVATION OF ENERGY INITIATIVES TO REDUCE CARBON FOOTPRINTS

CMPDIL has undertaken energy conservation studies in 2021-22 and conducted Diesel Audit & Benchmarking of specific diesel consumption as well as Electrical Energy Audit and Benchmarking of specific electrical energy consumption in various opencast and underground mines situated in different subsidiaries of Coal India Limited by Bureau of Energy Efficiency (BEE) accredited Energy Auditors.

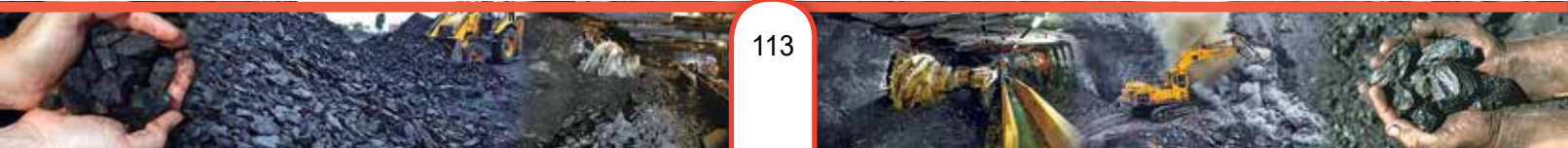
In Diesel Benchmarking studies conducted in various coalfields of CIL, following broad heads are adopted for diesel conservation:

- i) Identification & Minimization of leakage and adopting preventive maintenance measures for HEMM deployed
- ii) Speed optimization of HEMM considering haul road conditions
- iii) Time study to minimize idle hours and preventing unnecessary movement of HEMM
- iv) Comparison with CMPDIL planning & design norms, 0.1 ltr/bhp-hr for track mounted, 0.06 ltr/bhp-hr for wheel mounted and 0.054 ltr/bhp-hr for electric wheel mounted HEMM.

In Electrical Energy Audit & Benchmarking studies conducted in various coalfields of CIL, trend analysis based on last three (3) years historical data and electrical measurements carried out during field visit to underground and opencast mines, following energy conservation methods are adopted:

- i) Demand side management
- ii) Reduction of transmission & distribution losses
- iii) Power factor improvement
- iv) Efficient illumination system
- v) Reduction of transformation losses by reorganization of transformers
- vi) Installation of energy meters for energy monitoring
- vii) Energy conservation measures in pumping system

For Energy Audit and Energy Benchmarking studies conducted by BEE accredited Energy Auditors, please refer table as given below:



(A1) Energy Conservation initiatives taken up by CMPDIL for the year 2021-22

A	Diesel Audit and Benchmarking	Diesel Consumption	Proposed Saving Potential
1.	Annual benchmarking of 14 OCPs identified by BCCL	27096 KL	1185 K Litre/yr
2.	Annual benchmarking of 33 OCPs + CCL as a whole, identified by CCL	47898 KL	2126 K Litre/yr
3.	Annual benchmarking of 08 OCPs identified by ECL	28935 KL	1248 K Litre/yr
4.	Annual benchmarking of 12 OCPs identified by MCL	41331 KL	1857 K Litre/yr
5.	Annual benchmarking of 10 OCPs identified by NCL	124182 KL	5531 K Litre/yr
6.	Annual benchmarking of 03 OCPs identified by SECL	81000 KL	3581 K Litre/yr
7.	Annual benchmarking of 14 OCPs identified by WCL	58749 KL	2555 K Litre/yr
B	Electrical Energy Audit and Benchmarking studies carried during 2021-22	Proposed Investment (in Rs. lakh)	Proposed Saving Potential
1.	Electrical Energy Audit and Benchmarking Reports for Jayant OCP, NCL	-	-
2.	Electrical Energy Audit and Benchmarking Reports for Kuya OCP and Goluckdih Substation, Bastacolla Area, BCCL	-	-
3.	Electrical Energy Audit and Benchmarking Reports for 1. Ashok OCP, Piparwar Area, 2. Bhurkunda OCP, Barka-Sayal Area, 3. KDH OCP, NK Area, 4. Bokaro OCP, B&K Area, 5. Govindpur U/G, Kathara Area, CCL	-	-

(A2) MINE ILLUMINATION REPORT TAKEN UP BY CMPDIL FOR THE YEAR 2020-21

Sl No.	JOB Description
1.	Illumination Survey of Amlohri OCP, NCL
2.	Illumination Survey of Khadia OCP, NCL
3.	Illumination Survey of Kakri OCP, NCL

(A3) SOLAR POWER PLANT INITIATIVES

- Revised scheme submitted to CCL as PMC services from concept to commissioning for installation of 3.5MW solar power plant (ground mounted and roof top both) at various locations of CCL command area.
- Scheme submitted for installation of 1.2MW solar power plant at IWSS Khadia, NCL.
- Commissioned 150kWp (DC) roof top solar power plant at different locations of CMPDIL office buildings.
- Commissioned 60kWp (DC) roof top solar power plant at office building of CMPDIL (RI-VII), Bhubaneswar.
- Commissioning & Testing is under process for installation of 80kWp (DC) at office building of CMPDIL (RI-IV), Nagpur.
- Preparation of NIT for Supply, Installation, Commissioning & testing of 100kWp (DC) roof top solar power at CMPDIL (RI-V), Bilaspur.
- Preparation of scheme for 212kWp (DC) roof top solar power plant at different locations of CMPDIL (HQ) campus, Ranchi.

B. FOREIGN EXCHANGE EARNING AND OUTGO

Sl.No.	Particulars	2021-22
1.	Activities relating to export, initiatives to increase export; development of new export markets for products and services and export plans	Company is not engaged in exports
2.	Total Foreign Exchange used and earned (a) Total Foreign Exchange earned (₹ in Crore) (b) Total foreign exchange used (₹ in Crore) (Travelling Expenses ₹ 0.00 Crore + Others ₹ 6.10 Crores + Other Capital Goods ₹ 0.23 Crores)	₹ 0.03 Crores ₹ 6.33 Crores

C. RESEARCH AND DEVELOPMENT AND TECHNOLOGY ABSORPTION

- (i) One S&T project titled “Establishment of Geo-thermal energy (20KW Cap.) power generation Pilot Project at Manuguru area of SCCL Command area based on closed loop Binary Organic Rankine Cycle Process technology” - Singareni Collieries Company Ltd, Kothagudem and Shiram Institute for Industrial Research, New Delhi.

The above project has been taken up with following objectives:

- ❖ To establish indigenous 20 KW Pilot Demonstration unit in India based on closed loop Binary Organic Rankine Cycle (ORC) process technology to produce clean, reliable and efficient electricity using Geothermal fluid as heat source at Manuguru, SCCL, Telangana.
 - ❖ To standardize and optimize the power generation cost using geothermal source independently or in combination to ensure uninterrupted power supply for commercial viability.
- (ii) An R&D project titled “Design and deployment of Ventilation Fan Wind Power Recovery System as an alternate source of Electrical Energy in Underground Coal Mines”- IIT-ISM, Dhanbad and ECL
- ❖ The prime aim of above project is designing of experimental model for generating maximum electricity from exhaust of main ventilation fan.
 - ❖ Through the proposed model of set-ups, exhaust fan power consumption would be reduced up to 10%. Vertical Axis Wind Turbine (VAWT) Technology will be installed in the outlet of the existing main ventilation fan at Kumardubhi Colliery, Mugma Area, ECL. To guide the air flow from the exhaust by rotation, Derricus Blades of wind turbine are proposed to be installed in the project. This will reduce the power consumption of the existing ventilation system.

D. TECHNOLOGY ABSORPTION:

The R&D in coal sector is mainly for improvement of efficiency parameters in mining operations including mine safety, coal beneficiation/utilization, protection of mine environment and ecology and development of clean coal technology etc.

CMPDIL being a nodal agency and research organisation, has taken many technological initiatives in various fields across its total operational activities.

- In underground mining, Mass Production Technology has been introduced in quite a number of mines. Continuous Miner Technology (20 nos.) has been introduced in

15 mines of CIL so far, which are under operation. Long-wall mining are in operation at Moonidih UG of BCCL and Jhanjra UG of ECL.

- Free Steered Vehicles for transportation of men and materials in underground have been introduced in Jhanjra & Kotadih U/G mines of ECL and Churi U/G mine of CCL.
- The Man-riding schemes have been prepared for 63 UG mines of different subsidiaries of CIL to reduce arduous walking of the miners. In 41 UG mines, the Man Riding Systems (MRS) are in operation. MRS is under installation in 6 UG mines of CIL.
- The latest version of Geovia Minex, Data Mine, Vulcan, Carlson software for mine planning have been introduced. This provides best resource planning through pit design, pit optimization, scheduling of resources and dumps, etc.
- GPS/ GPRS based Vehicle Tracking System [VTS] in coal transporting vehicles have been introduced to prevent theft and pilferage of coal.
- RFID, CCTV & Boom Barrier based Weight Monitoring and Control System has been introduced. It has ensured Real Time transmission of coal weighment data to the Central Server. This has enhanced transparency in the system as well as helped reducing theft of coal during transit.
- Hydrostatic drills with PCD bits for enhancing the productivity of exploratory drills have been introduced.
- Numerical modelling software (FLAC 3D) was procured / upgraded under R & D project is being regularly used for scientific studies involving strata control. VENTSIM software for ventilation planning in UG mines has been introduced. In-house job/skill has been created by the use of above software.
- 41 numbers of departmental Surface Miners are in operation in several opencast mines of CIL to eliminate drilling and blasting and also for facilitating selective mining.
- High wall technology has been successfully introduced at Sharda opencast mine of SECL
- A study on use of Vibro Ripper in opencast mines has been done recently. From this study it has been found that Vibro Ripper is suitable at places where drilling & blasting is not permitted / desired due to environmental, safety or other reasons.
- CMPDIL is Principal Implementing Agency (PIA) for the development of CBM in CIL leasehold areas i.e. BCCL, ECL & SECL. One CBM Block namely Jharia CBM Block-I (BCCL leasehold area) has been awarded to M/s Prabha Energy Private Limited for extraction of CBM on revenue sharing basis.
- CMPDIL is also Principal Implementing Agency (PIA) for the coal gasification projects at CIL and its subsidiaries
- Initially following coal gasification projects have been undertaken:
 - SECL - Mahamaya SCG Project
 - ECL - Shilpanchal Pariyojana SCG Project
 - WCL - Utkarsh SCG Project

E. BRIEF OUTCOMES RESEARCH PROJECTS COMPLETED DURING 2021-22:

(i) On-Line Coal dust suppression system for opencast mines

This project was executed by Centre for Development of Advanced Computing (CDAC), Tiruvanthapuram; in association with CMPDIL, Ranchi

Under this project, Online Coal Dust Suppression System (CDSS) has been developed to monitor the coal-dust present in the atmosphere and automatically activates the sprinklers, when the dust content exceeds permissible safe limits.

An online monitoring software, collects the sensed parameters from the CDSUs installed at various locations, maintains a log and generates reports. Products developed in the project include Coal Dust Suppression Unit (CDSU Base) to sense PM_{10} & $PM_{2.5}$, CDSU-Pro to sense PM_{10} , $PM_{2.5}$, SO_2 , NO_2 , NO & CO , CDSU and Wireless Slave (CWS) for activation of sprinklers and Online Monitoring Software (OMS) to manage data from all the CDSUs and generates reports.

(ii) Reclamation of coal mined land of North Eastern Coalfields, Assam through soil amendment and revegetation with native plant species using integrated biological approach

This project was executed by RFRI, Jorhat in association with NEC, Margherita.

Under the above project, degraded post coal mined land at Tikak Colliery of NEC has been rehabilitated by soil amendments and re-vegetation with native plant species using integrated biological approach.

At Tikak Colliery, Margherita, 3.07 hectares' plantation on Over Burden Dump with 30 native plants species were established. A total of 14,750 numbers of saplings were planted in the reclamation plot including Poaceae (grass) family members such as Mellocana bacifera (240Nos), Thysenolena maxima (838 Nos), Vetiveria zizanioides (960 Nos), Cymbopogon nurdas(1000) and Bambusa multiplex (248Nos).

(iii) Requirement of air in mine for Mass Production Technology

This project was executed by Underground Mining Division (UMD), CMPDIL, Ranchi.

Under this project, field activities related to gas survey was done at 9 mines of BCCL, ECL and SECL [12 Continues Miners panels; 2 Longwall faces] and their analysis were done. Based on the analysis it has been concluded that:

- ❖ As per Regulation 153 2(a) of CMR-2017 it is to some extent not practicable to provide stipulated air quantity at the Last Ventilation Connection (LVC) of mass production panels.
- ❖ From dust exposure point of view, minimum air quantity required at LVC of a CM mass production panels should be:
 - $3 \text{ (cross-sectional area of gallery in m}^2) \times 0.5 \text{ m/s} = x \text{ m}^3/\text{s}$
[For Deg-I & Deg-II gassy of mines]
 - For Deg-III mines, air velocity should be taken as 0.75 m/s in place of 0.5 m/s as taken for deg-i and ii above)



- ❖ From temperature and humidity aspect, at least 2°C temperature difference between DBT & WBT must be maintained in mass production faces to maintain face relative humidity around 80%, which is to some extent comfortable as per mine workings environment is concern.
- ❖ Temperature due to heat emission from machines is also taken into consideration for finding out how much air is required to minimize the rise in temperature. Data analysis indicates that allowing maximum 2°C rise in temperature for machines, at least 25 m³/s of air is to be delivered in the LVC of mass production CM faces & 60 m³/s of air is to be delivered in the Longwall face. This quantity may vary according to power installation in panel to panel.
- ❖ Since working condition in Longwall face is difficult, so available air should have sufficient cooling power to dissipate around 270 W/m² of body heat there. To generate the required cooling power at least 3m/s of air velocity & 2°C temperature difference between DBT & WBT needed. To achieve this, air quantity requirement in Longwall face should be

$$= (\text{Max span of Longwall face in m}^2 \times 3 \text{ m/s}) \text{ m}^3/\text{s}$$
- ❖ No trace of CH₄, CO or any noxious gas concentration observed in all the CM panels and in Longwall panel of Jhanjra Project. In the Longwall face of Moonidih Project presence of CH₄ was measured within permissible limit except near goaf in tail gate. With one mine gas data it will not be justified to formulate any guideline, hence, existing norms for dilution of gases should be followed as per CMR-2017 and existing circulars.
- ❖ To maintain less than 0.5% CH₄ in any working place in mass production panel the required air quantity must be calculated and if it is found on the higher side, recommended quantity of air must be provided at the LVC of mass production panels.

(iv) Indigenous Development of Through The Earth (TTE) Two-Way Voice Communication System for Underground Mines.

This project was executed by IIT, Bombay and CMPDIL, Ranchi

- ❖ Under this project, a novel electrically small portable antenna for underground coal mine communication was developed. Two of such antennas were integrated with the transmitter and receiver module. Various lab testing of the developed prototype were conducted in IIT Bombay. The lab testing includes the transmission and reception of electromagnetic signals as well as the audio/voice signal using the developed prototype.
- ❖ The developed communication system is intrinsically safe and developed as per the DGMS guidelines. On receipt of DGMS permission, field trials have been conducted at Bhurkunda UG mine of CCL keeping receiver module inside the mine to detect the signal transmitted from the outside of the mine and vice-versa. The test results were satisfactory and the receiver which was placed inside the coal mine could able to receive the signal transmitted from the outside of the mine. Similarly, the satisfactory results were obtained while keeping the receiver outside and transmitter inside the mine.

(v) Development of a methodology for regional air quality monitoring in coalfield area using satellite data and ground observations

This project was executed by Geomatics Department, CMPDIL (HQ), Ranchi and National Remote Sensing Centre (NRSC), ISRO, Hyderabad.

The prime aim of this project is to develop a suitable model for satellite based air quality monitoring with respect to particulate matter (PM_{2.5} & PM₁₀) and trace gases (NO₂ & SO₂) in the coal mine areas.

- ❖ Aerosol Optical Depth (AOD) can be derived from satellite can be used as a proxy to assess the surface level PM_{2.5}/PM₁₀ concentration at regional scale.
- ❖ In the present study, particulate matter, and meteorological data from online air quality monitoring stations [as supplied by CMPDIL authority], MODIS sensor derived AOD data from Terra and Aqua satellite in conjunction with model derived meteorological fields have been utilized to develop satellite based surface level concentration of PM_{2.5} and PM₁₀.
- ❖ This developed relationship is used to generate spatial map of particulate map during the satellite over pass time and validated at Singrauli & Talcher coalfield regions.
- ❖ Weather Research and Forecast along with chemistry (WRF-Chem) model-derived surface and column integrated values of trace gases concentration in conjunction with the columnar data from Sentinel-5P satellite (TROPOMI) have been utilized to map surface level satellite based concentrations of trace gases (NO₂ & SO₂) on daily basis in the present study.
- ❖ An interface is also developed to visualize and monitor particulate matter and trace gases.

(vi) Design of cost effective process flowsheet for improved washing efficiency of Indian Coking & Non-Coking Coal

This project was executed by IIT-ISM, Dhanbad, CMPDIL, Ranchi and BCCL, Dhanbad. The outcomes of the projects are:

On coking coal:

- ❖ Based on the proposed flow sheets, (Jigging for -4.0+0.50mm coarse coal and Flotation and Water-Only Cyclones for -0.50 fine coal) it is possible to reduce the ash up to 32% to 33%. Therefore, the coals already declared as coking coals can be gainfully utilised by blending with superior low-ash coals.

On Non-Coking Coal:

- ❖ In the case of non-coking coal of CV Area, BCCL, crushing non-coking coal to -4.0mm would be a cost-intensive step and is difficult to handle at the plant scales (as proposed in the Flow sheet). Considering the techno-economic feasibility and coal having poor coking properties (determined from LTGK and CSN), the non-coking coal of the CV area may be deshaled at -25mm size itself using Jigs and used as power coal for effective utilisation.



(vii) Development of guidelines for design of all tiers of shovel-dumper dump above dragline dump, with delineation of phreatic surface, within dragline dump, throughout the year and validation study on two dragline mines of Coal India Limited (CIL)

This project was executed by BIT, Mesra and S&R Division, CIL (HQ), Kolkata

- Under the project, detailed study was conducted for opencast mines of CIL having dragline and shovel dumper combination in operation, namely Jayant OCP, Khadia OCP, Bina OCP, Nighahi OCP, Amlohri OCP and Dudhichua OCP of NCL ; Sasti OCP, Mungoli OCP of WCL; Sonapur Bazari of EC, Amlai OCP and Dhanpuri OCP of SECL and Block –II , BCCL.
- Different geo-engineering parameters i.e. cohesion, angle of friction, bulk unit weight etc were determined for both dragline dump and shovel-dumper dump.
- Based on the study of individual dragline operated opencast mine, a general guideline has been developed relating to maximum height, slope of dragline and shovel dumper dump on the range of various geo-engineering parameters.
- The optimum internal dump profile comprising of shovel-dumper and dragline dump considering both safety and land economics has been predicted, which gives factor of safety equal to or more than stipulated factor of safety of 1.1 to 1.15.
- Roadmap to maintain recommendation of developed guideline is also prepared under the above project.
- The above guidelines will be applicable to all the mines of Coal India Limited, where shovel and dragline dumps exist.



Addendum - II

To
The Board of Directors
Central Mine Planning & Design Institute Limited

CEO AND CFO CERTIFICATION

We, Manoj Kumar, Chairman-cum-Managing Director and P. K. Prasad, General Manager (Finance)/CFO, responsible for the finance function certify that:

- a. We have reviewed financial statements and the cash flow statement for the year ended 31st March, 2022 and that to the best of our knowledge and belief:
 - i. These statements do not contain any materially untrue statement or omit any material fact or contain statements that might be misleading;
 - ii. These statements together present a true and fair view of the company's affairs and are in compliance with existing accounting standards, applicable laws and regulations.
- b. To the best of our knowledge and belief, no transaction entered into by the company during the year ended 31st March 2022 are fraudulent, illegal or violative of the company's code of conduct.
- c. We accept responsibility for establishing and maintaining internal controls for financial reporting and we have evaluated the effectiveness of internal control systems of the company pertaining to financial reporting and we have disclosed to the auditors and the Audit Committee, deficiencies in the design or operation of such internal controls, if any, of which they are aware and the steps they have taken or proposed to take to rectify these deficiencies.
- d. We have indicated to the auditors and the Audit Committee,
 - i. There have not been any significant changes in internal control over financial reporting during the Year ended 31st March 2022,
 - ii. For better understanding of the users of the financial statements, Significant Accounting Policy has been modified / rephrased in section 2.7 Intangible Assets and 2.11 Employee Benefits and 2.16 Estimates and Assumptions. However, there is no financial impact of the aforesaid change.
 - iii. We are not aware of any instance of significant fraud with involvement therein of the management or an employee having a significant role in the company's internal control system over financial reporting.

(P. K. Prasad)
General Manager (F)

(Manoj Kumar)
Chairman-cum-Managing Director

Addendum - III



SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

CORPORATE GOVERNANCE COMPLIANCE CERTIFICATE

CIN of the Company: U14292JH1975GO1001223

Nominal Capital: Rs. 150, 00. 00,000 (Rupees One Hundred Fifty Crores Only)

Paid up Capital: Rs. 1,42, 80, 00.000 (Rupees One Hundred Forty Two Crores Eighty Lakhs Only)

To,

The Members,

Central Mine Planning & Design Institute Limited

Gondwana Place, Kanke Road

Ranchi - 834031

We have examined the compliance conditions of Corporate Governance of **Central Mine Planning & Design Institute Limited** (the "Company") for the year ended on **31st March, 2022**, as stipulated in the Department of Public Enterprises (DPE) Guidelines 2010 on Corporate Governance for Central Public Sector Enterprises.

Our examination has been summarized as follows:-

1. The Compliance with the conditions of Corporate Governance is the responsibility for management. Our examination, carried out, is in accordance with the Corporate Governance (Modules of Best Practices) issued by the Institute of Company Secretaries of India and Corporate Governance guidelines referred under Department of Public Enterprises Guidelines 2010 and was limited to procedures and implementation thereof, adopted by the Company for ensuring the compliance of the conditions of Corporate Governance. It is neither an audit nor an expression of opinion on the Financial Statements of the Company. We have obtained all the information and explanations, which to the best of our knowledge and belief, were necessary for the purpose of certification and have been provided with such records, documents, certificates, etc. as had been required by us.
2. In our opinion and to the best of our information and according to the explanations given to us and the representations made by the Directors and the Management, we certify that the Company has taken steps for reviewing the Compliance of laws and the standards issued for ensuring good governance practices, in line with the provisions of the Companies Act, 2013 and the various modules and standards issued by The Institute of Company Secretaries of India in this regard.

OFFICE No. 603, SAMRIDHI SQUARE, 6TH FLOOR KISHORE GANJ CHOWK, RANCHI-834001

Contact No: 0651-2212943, 09334606570. Email id: cssatish26@gmail.com, skaranchi2@gmail.com



SATISH KUMAR & ASSOCIATES
(COMPANY SECRETARIES)

1. Board of Directors

The business of the company is managed by the Board of Directors. The president determines, from time to time, the number of Directors of the company. The Directors are not required to hold any qualification shares. The Chairman, Functional Directors, Part-time official Directors and Non-official part-time Directors are appointed by the President of India and they are paid salary, allowances, sitting fees etc. as determined by the President of India subject to provisions of the Companies Act, 2013 and terms and condition of appointment order.

(A) Size of the Board:

In terms of the Article of Association of the company, strength of our Board shall not be less than 2 Directors and not more than 15 Directors. These Directors may be Whole Time Directors / Functional Directors, Official Part-Time Directors or Non-Official Part-Time Directors/Independent Directors.

(B) Composition of the Board of Directors category wise:

As on 31st March, 2022, the Board of Directors of CMPDIL comprises of 8 (Eight) Directors out of which Three are Whole-time Directors including the Chairman-cum-Managing Director, Two part-time official Directors and Three part-time non-official Directors. The Board is headed by an Executive Chairman, Shri Manoj Kumar. Three Independent Directors are on the Board of the company including one Woman Director. The remaining two Independent Directors is yet to be appointed by the Ministry of Coal, Govt. of India after the cessation of office of the Independent Directors appointed earlier. As such the guidelines on Corporate Governance in respect of composition of Board could be followed only on appointment of the Independent Directors.

The composition of Board of Directors as on 31st March, 2022 is as follows:

I. WHOLE-TIME DIRECTORS

A. CHAIRMAN-CUM-MANAGING DIRECTOR

1. SHRI MANOJ KUMAR

B. FUNCTIONAL DIRECTORS

1. SHRI RABINDRA NATH JHA
2. SHRI SATENDRA KUMAR GOMASTA

II. PART-TIME OFFICIAL DIRECTORS

1. SHRI B. VEERA REDDY
2. SHRI MUKESH CHOUDHARY

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SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

III. PART-TIME NON-OFFICIAL DIRECTORS

1. DR. KRISHNA CHANDRA PANDEY
2. SMT. ALKA PANDA
3. SHRI PRAMOD SINGH CHAUHAN

IV. PERMANENT INVITEE

1. SHRI AJITESH KUMAR

(C). Number of Board Meetings held and dates on which held

The Board of Directors is the supreme body of the company which oversees the overall function of the company. 12 (Twelve) Board meetings were held during the financial year 2021-22.

Sl. No	Number of Meeting	Dates	Day	Place of Meeting
1.	245 ^m	18-04-2021	Sunday	CMPDIL, Ranchi
2.	246 th	29-04-2021	Thursday	CMPDIL, Ranchi
3.	247 ^m	28-05-2021	Friday	CMPDIL, Ranchi
4.	248 ^m	19-07-2021	Monday	CMPDIL, Ranchi
5.	249 th	03-08-2021	Tuesday	CMPDIL, Ranchi
6.	250 th	24-09-2021	Friday	CIL, Kolkata
7.	251 st	30-10-2021	Saturday	CMPDIL, Ranchi
8.	252 nd	24-12-2021	Saturday	Puri
		25-12-2021	Sunday	Bhubaneswar
9.	253 rd	31.01.2022	Monday	CMPDIL, Ranchi
10.	254 th	05.02.2022	Monday	CMPDIL, Ranchi
11.	255 ^m	25.02.2022	Friday	CMPDIL, Ranchi
12.	256 th	23.03.2022	Wednesday	CMPDIL, Ranchi

2. A. Audit Committee:

The primary function of the Audit Committee is to assist the Board of Directors in fulfilling its oversight responsibilities by reviewing the financial report: the Company's system of internal control regarding finance, Accounting and the Company's auditing, accounting and financial reporting process generally.

The Audit Committee reviews reports of the Internal Auditors, meets Statutory Auditors and discusses their findings, suggestions and other related matters and reviews major accounting policies followed by the Company.

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SATISH KUMAR & ASSOCIATES
(COMPANY SECRETARIES)

B. Terms of reference:

The terms of reference of the Audit Committee are in accordance with Section 177 of the Companies Act, 2013 and in accordance with the guidelines on Corporate Governance of CPSEs issued by the Ministry of Heavy Industries and Public Enterprises, Department of Public Enterprises.

The Terms of reference of Audit Committee will cover all commercial aspects of the organization inter-alia:

- i. Review of financial statement before submission to the Board.
- ii. Periodical review of internal control system.
- iii. Review of Government audit and Statutory Auditor's report.
- iv. Review of operational performance vis-a-vis standard parameters.
- v. Review of projects and other capital scheme.
- vi. Review of internal audit findings/ observations.
- vii. Development of a commensurate and effective Internal Audit function.
- viii. Special studies/investigation of any matter including issues referred by the Board.

C. Scope of Audit Committee:

The Scope / Role of Audit Committee is as follows:

1. Overseeing of the company's financial reporting process and the disclosure of its financial information to ensure that the financial statement is correct, sufficient and credible.
2. Recommending to the Board the fixation of audit fees.
3. Approval of payment to Statutory Auditors for any other services rendered by the Statutory Auditors.
4. Reviewing, with the Management, the Annual Financial Statements before submission to the Board for approval, with particular reference to:
 - a. Matters required being included in the Directors' Responsibility Statement to be included in Boards report in terms of Section 134(3) and 134(5) of the Companies Act, 2013.
 - b. Changes, if any, in accounting policies and practices and reasons for the same;
 - c. Major accounting entries involving estimates based on the exercise of judgment by management;
 - d. Significant adjustments made in the financial statement arising out of audit findings;
 - e. Compliance with legal requirements (applicable laws, regulation and Company policies) relating to Financial Statements;

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SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

- f. Disclosure of any related party transactions; and
- g. Qualifications in the draft audit report.
5. Reviewing with the Management, the Quarterly Financial Statements before submission to the Board for approval.
6. Reviewing with the Management, performance of Internal Auditors and adequacy of the internal control systems.
7. Reviewing the adequacy of internal audit function, if any including the structure of the internal audit department, staffing and seniority of the official heading the department, reporting structure coverage and frequency of internal audit.
8. Discussion with Internal Auditor and / or Auditors any significant findings and follow up thereon.
9. Reviewing the findings of any internal investigations by the Internal Auditors /Auditors / agencies into matters where there is suspected fraud or irregularity or a failure of internal control system of a material nature and reporting the matter to the Board.
10. Discussion with Statutory Auditors before the audit commences, about the nature and scope of audit as well as post-audit discussion to ascertain any area of concern.
11. Reviewing the functioning of the Whistle Blower Mechanism.
12. Reviewing the follow up action on the audit observations of the C&AG audit.
13. Providing an open avenue of communication between the Independent Auditor, Internal Auditor and the Board of Directors.
14. Reviewing and approving all related party transactions in the company. For this purpose, the Audit Committee may designate a member who shall be responsible for reviewing related party transactions as contained in the Accounting Standard 18 issued by the Institute of Chartered Accountants of India.
15. Reviewing with the Independent Auditor the co-ordination of audit efforts to assure completeness of coverage, reduction of redundant efforts, and the effective use of all audit resources.
16. Reviewing with the Independent Auditors the adequacy of internal controls including computerized Information System Controls and security, and related findings and recommendations of the Independent Auditor and Internal Auditor, together with the management responses.

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SATISH KUMAR & ASSOCIATES
(COMPANY SECRETARIES)

17. Consider and review with the management. Internal Auditor and Independent Auditor, the significant findings during the year including the status of previous audit recommendations and any difficulties encountered during audit work including any restrictions on the scope of activities or access to required information.
18. To look into the reasons for substantial defaults in the payment to the depositors, debenture holders, shareholders (in case of non- payment of declared dividends) and creditors.
19. To review the follow up action taken on the recommendations of Committee on Public Undertakings (COPU) of the Parliament.
20. Carrying, out any other function as mentioned in the terms of reference of the Audit Committee.

D. Powers of the Audit Committee:

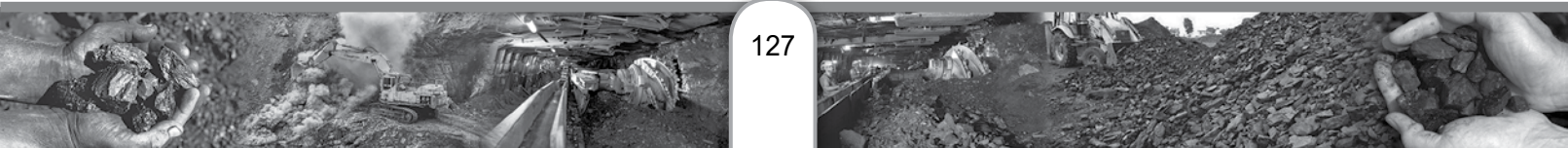
The Audit Committee shall have powers commensurate with its role including the following:

1. To investigate any activity within its terms of reference.
2. To seek information from any employee.
3. To obtain outside legal or other professional advice.
4. To secure attendance of outsiders with relevant expertise, if considered necessary.
5. To protect whistle blowers.
6. To mitigate conflicts of interest by strengthening Auditors independent.
7. To ensure the effectiveness of internal controls and risk management.

E. Review of information by Audit Committee:

The Audit Committee shall review the following information:

- i. Management discussion and analysis of financial condition and results of operations;
- ii. Statement of related party transactions submitted by management;
- iii. Management letters / letters of internal control weaknesses issued by the Statutory Auditors;
- iv. Internal Audit reports relating to internal control weaknesses;
- v. The appointment and removal of the Chief Internal Auditor shall be placed before the audit Committee; and





SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

vi. Certification / declaration of financial statements by the Chief Executive / Chief Finance Officer.

F. Composition:

As on 31st March, 2022 the Audit Committee consists of following members and is headed by a Non-official part-time Director (Independent Director):

Sl. No.	Name of Director	Status	
1	Smt. Alka Panda	Chairperson	Independent Director
2	Shri B. Veera Reddy	Member	Official part-time Director
3	Shri Mukesh Choudhary	Member	Official part-time Director
4	Dr. Krishna Chandra Pandey	Member	Independent Director
5	Shri Pramod Singh Chauhan	Member	Independent Director
6	Shri S.K. Gomasta	Member	Functional Director

HoD (IAD) and Statutory Auditors are invited to the Audit Committee Meeting. CFO is the Permanent Invitee and Company Secretary is the Secretary to the Committee. Senior functional executives are also invited as and when required to provide necessary clarification to the Committee. Internal Audit Department provides necessary support for holding and conducting the Audit Committee Meeting.

G. Details of Audit Committee Meetings held in F.Y. 2021-22:

11 (Eleven) meetings were held during the financial year 2021-22 on:-

18.04.2021, 29.04.2021, 28.05.2021, 19.07.2021, 03.08.2021, 23.09.2021, 30.10.2021, 25.12.2021, 05.02.2022, 25.02.2022 and on 23.03.2022.

3. Nomination and Remuneration Committee

The Board constituted the Nomination & Remuneration Committee of CMPDIL in its 191st Board Meeting held on 30.12.2015 in order to follow the best practice of Corporate Governance and to comply with the guidelines of Corporate Governance and the listing agreement entered into by Coal India Limited with Stock Exchanges.

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SATISH KUMAR & ASSOCIATES
(COMPANY SECRETARIES)

A. Composition

The Board reconstituted the Nomination & Remuneration Committee of CMPDIL in its 234th Board meeting held on 09.06.2020 consists of following members and is headed by a Non-official part-time Director (Independent Director):

Sl. No.	Name of Director	Status	
1	Smt. Alka Panda	Chairperson	Independent Director
2	Dr. Krishna Chandra Pandey	Member	Independent Director
3	Shri Pramod Singh Chauhan	Member	Independent Director
4	Shri Mukesh Choudhary	Member	Official part-time Director
5	Shri S.K. Gomasta	Permanent Invitee	Functional Director

Company Secretary will act as Secretary to this Committee and General Manager (P&A) would be the Nodal Officer of the Committee providing all services to the Committee.

B. Details of Nomination & Remuneration Committee Meetings held in F.Y. 202-22:

No meeting was held during the financial year 2021-22.

4. CSR Committee

Corporate Social Responsibility (CSR) and Sustainability is a company's commitment to its stakeholders to conduct business in an economically, socially and environmentally sustainable manner that is transparent and ethical. Stakeholders include employees, investors, shareholders, customers, business partner, clients, civil society groups, Government and non-governmental organizations, local communities, environment and society at large.

Each CPSEs is required to have a Board level committee headed by either the Chairman and/or Managing Director or an independent Director to oversee the implementation of the CSR and sustainability policies of the company and to assist the Board of Directors to formulate suitable policies and strategies to take these agenda of the company forward in the desired direction as per the guidelines issued by DPE w.e.f. 01.04.2013. In terms of the guidelines, CSR & sustainability has been included as a compulsory element under non-financial parameters in MoU.

In line with the guidelines, the Board constituted the CSR Committee in its 172nd meeting held on 10.05.2013.

OFFICE No. 603, SAMRIDHI SQUARE, 6TH FLOOR KISHORE GANJ CHOWK, RANCHI-834001

Contact No: 0651-2212943, 09334606570. Email id: cssatish26@gmail.com, skaranchi2@gmail.com



SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

A. Composition:

As on 31st March, 2022 the CSR Committee consists of following members and is headed by a non-official part-time Director (Independent Director):

SL. No.	Name of Director	Status	
1	Shri Pramod Singh Chauhan	Chairman	Independent Director
2	Dr. Krishna Chandra Pandey	Member	Independent Director
3	Smt. Alka Panda	Member	Independent Director
4	Shri R.N. Jha	Member	Functional Director
5	Shri S.K. Gomasta	Member	Functional Director

Company Secretary will act as Secretary to this Committee and General Manager (HRD/CSR) is the Nodal Officer of the Committee providing all services to the CSR Committee.

B. Details of CSR Committee Meetings held in F.Y. 2021-22:

6 (Six) meetings were held during the financial year 2021-22 on 18.04.2021, 08.07.2021 & 09.07.2021, 10.09.2021, 30.10.2021, 24.12.2021 and 23.03.2022.

5. Risk Management Committee

Risk Management Committee was constituted by CMPDIL Board of Directors in its 192nd Board Meeting held on 02.02.2016 and reconstituted by the Board in its 256th Board Meeting held on 23.03.2022.

A. Composition:

The Risk Management committee consists of following members and is headed by a Non-official part-time Director:

SL No.	Name of Director	Status	
1	Dr. Krishna Chandra Pandey	Chairman	Independent Director
2	Smt. Alka Panda	Member	Independent Director
3	Shri Pramod Singh Chauhan	Member	Independent Director
4	Shri R.N. Jha	Member	Functional Director
5	Shri S.K. Gomasta	Member	Functional Director

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Contact No: 0651-2212943, 09334606570. Email id: cssatish26@gmail.com, skaranchi2@gmail.com



SATISH KUMAR & ASSOCIATES
(COMPANY SECRETARIES)

Company Secretary will act as Secretary to this Committee and General Manager (E&M) would be the Nodal Officer of the Committee providing all services to the Committee.

B. Details of Risk Management Committee Meeting held in F.Y. 2021-22:

1 (One) meeting was held during the financial year 2021-22 on 23.03.2022.

6. Independent Directors Meeting:

As per the Companies Act, 2013, Independent Directors are required to hold at least one meeting in a year to discuss the following:

- Review the performance of non-independent directors and the Board as a whole.
- Review the performance of the Chairperson of the company taking into account the views of Executive Directors and Non-executive Directors.
- Assess the quality, quantity and timeliness of flow of information between the company management and the Board that is necessary for the Board to effectively and reasonably perform their duties.

1 (One) meeting of Independent Directors was held on 23.03.2022 during the financial year 2021-22.

The details of the meeting attended by the Independent Directors are as under:-

Sl. No.	Name of the Independent Directors	Number of meeting attended
1	Smt. Alka Panda	1
2	Dr. Krishna Chandra Pandey	1
3	Shri Pramod Singh Chauhan	1

For Satish Kumar & Associates
Company Secreta


(SATISH KUMAR)

FCS No.: 8423

C.P.No.:9788

UDIN: - F008423D000375121

Date: - 24th May, 2022

Place: - Ranchi

OFFICE No. 603, SAMRIDHI SQUARE, 6TH FLOOR KISHORE GANJ CHOWK, RANCHI-834001

Contact No: 0651-2212943, 09334606570. Email id: cssatish26@gmail.com, skaranchi2@gmail.com

Addendum - IV

LODHA PATEL WADHWA & CO.
Chartered Accountants

INDEPENDENT AUDITOR'S REPORT

To

The Members of Central Mine Planning & Design Institute Limited

Report on the Audit of Financial Statements

Opinion

We have audited the accompanying financial statements of Central Mine Planning & Design Institute Limited ("the Company"), which comprise the Balance Sheet as at March 31, 2022, and the Statement of Profit and Loss (including Other Comprehensive Income), the Statement of Changes in Equity and the Statement of Cash Flows for the year then ended and a summary of the significant accounting policies and other explanatory information.

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements give the information required by the Companies Act 2013 ("the Act") in the manner so required and give a true and fair view in conformity with the Indian Accounting Standards prescribed under section 133 of the Act read with the Companies (Indian Accounting Standards) Rules, 2015, as amended, ("Ind AS") and other accounting principles generally accepted in India, of the state of affairs of the Company as at March 31, 2022, and its profit, total comprehensive income, the changes in equity and its cash flows for the year ended on that date.

Basis for Opinion

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

Key Audit Matters

This section of our auditor's report is intended to describe the matters selected from those communicated with management that, in our professional judgment were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit of the financial statement as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters. We have determined that the matter described below to be the key audit matters to be communicated in our report.

S.No.	Key Audit Matter	Auditor's Response
1.	Implementation of SAP - Financial Statements of CMPDI is being generated through a programme called Business Intelligence (BI) which is integrated to SAP. Grouping of GL has been updated but linking of the same is in progress of Coal India limited (CIL) Level. As on interim arrangement grouping of BI is being used for preparation of Financial Statements.	SAP ERP implemented in CMPDI, reportedly the migration from Coalnet/Job portal to new SAP system was done by Company with effect from 1st Oct, 2021. We have, after discussion and confirmation from management, evaluated the system and observed that - Data from the old system was migrated in SAP system and the procedures performed on the implementation of SAP by the management has not resulted in any material misstatement on the financial statements.



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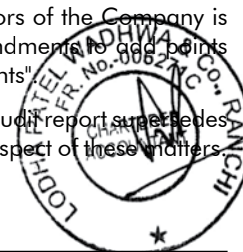
		<p>implementation, no deviation in results, as such has been noticed. Further there is no deviation from requirement of Schedule III of the Companies Act. 2013.</p> <ul style="list-style-type: none"> - Independent verification of the migration has not been done. - The company is still in transition phase and gradually gaining stabilization. - A few modules of SAP System are yet to be made functional. - An understanding of the changes occurred to significant business processes and key internal controls as well as IT general controls were made and observed that a few more controls would be required on final implementation with a change in scope of Audit of Internal Audit in this regard. - A cutoff date was to be followed by blocking the passing of entries in the books of accounts by all the concerned departments at the time of quarterly review of account or at year-end annual audit. - An independent audit of migration process of data from Coalnet/Jobs portal to SAP would be required.
2.	<p>Observation of CAG & its Compliance</p> <p>CMPDI has no defined policy in dealing with dues from Central PSUs/Sister Companies. The Company had made provision in their financial statements adopting different yard sticks for providing for bad and doubtful debts in respect of Govt. PSU/ Govt. Organisation. Private Parties. Sister Concerns, or with MOC. Management assured that the matter would be taken up with CIL for framing a policy regarding making provision against long pending dues.</p>	<p>We observed that the Management after placing the matter before CIL management and getting o confirmation had confirmed that</p> <ul style="list-style-type: none"> - CMPDI already has a defined policy in dealing with dues which is placed under Significant Accounting Policies Para at 2.9.2.2 - Under Impairment of financial assets. - The Company Follows "Simplified Approach" for recognition of impairment loss on Trade Receivables and this approach do not require the Company to track changes in credit risk. - It recognizes impairment loss allowance based on lifetime Expected Credit loss (ECL) at each reporting date, right from its initial recognition. - The management has confirmed that the accounting policy is being followed and the different yard sticks of provisioning are applied in line with the recognition procedure stated in the policy.

Other Matters

(i) This report should be read in conjunction of our comments on the accounts attached to this report as **Annexure - A**

(ii) Our Report on the Financial Statements dated 10th May, 2022 as approved by the Board of Directors of the Company is revised to incorporate observations made by the Comptroller and Auditor General of India and amendments to add points 'iv) (a), (b), & (c)' & '(v)' in "clause '3', para (g)" under "Report on other Legal and Regulatory Requirements"

This audit Report has no impact on the reported figures in the financial statements of the Company. This audit report supersedes the original audit report on financial statements dated 10th May, 2022. Our opinion is not modified in respect of these matters.



Other Information

The Company's management and Board of Directors are responsible for the other information. The other information comprises the information included in the Company's Annual Report, but does not include the financial statements and our auditors' report thereon.

Our opinion on the financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated.

If, based on the work we have performed, we conclude that there is a material misstatement of this other information: we are required to report that fact. As the Other Information has not been provided to us, we have nothing to report in this regard.

Management's Responsibility for the Financial Statements

The Company's Board of Directors is responsible for the matters stated in Section 134(5) of the Act, with respect to the preparation of these financial statements that give a true and fair view of the financial position, financial performance including other comprehensive income, cash flows and changes in equity of the Company in accordance with the Indian Accounting Standards (Ind AS) prescribed under section 133 of the Act read with the Companies (Indian Accounting Standards) Rules, 2015, as amended, and other accounting principles generally accepted in India. This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding the assets of the Company and for preventing and detecting frauds and other irregularities; selection and application of appropriate 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 statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

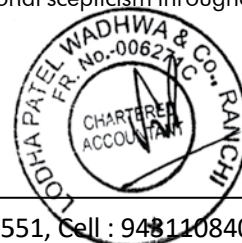
In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or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

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

Auditor's Responsibility for the Audit of the Financial Statements

Our objectives are 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 our 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 misstatement 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.

As part of an audit in accordance with SAs, we exercise professional judgment and maintain professional scepticism throughout the audit.



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We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances. Under section 143(3)(i) of the Companies Act, 2013, we are also responsible for expressing our opinion on whether the company has adequate internal financial controls system in place and the operating effectiveness of such controls.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We believe that the audit evidence obtained by us is sufficient and appropriate to provide a basis for our audit opinion on the financial statements.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

Report on Other Legal and Regulatory Requirements

1. As required under section 143(5) of the Companies Act 2013, we give in "Annexure 1" a statement on the Directions issued by the Comptroller and Auditor General of India after complying the suggested methodology of Audit, action taken thereon and impact on the accounts and the financial statements of the Company.
2. As required by the Companies (Auditor's Report) Order 2020 ("the Order") issued by the Central Government of India in terms of section 143(11) of the Act, we give in "Annexure 2" a statement on the matters specified in paragraph 3 and 4 of the Order, to the extent applicable.
3. As required by Section 143(3) of the Act, based on our audit we report that:
 - a) 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.



- b) 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.
- c) the Balance Sheet, the Statement of Profit and loss including Other Comprehensive Income. Statement of Changes in Equity and the Statement of Cash Flow dealt with by this Report are in agreement with the books of account.
- d) in our opinion, the aforesaid financial statements comply with the Indian Accounting Standards prescribed under section 133 of the Act.
- e) on the basis of the written representations received from the directors of the Company as on March 31, 2022 taken on record by the Board of Directors, none of the directors is disqualified as on March 31, 2022 from being appointed as a director in terms of Section 164(2) of the Act.
- f) 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 our separate Report in "Annexure 3". Our report expresses an unmodified opinion on the adequacy and operating effectiveness of the Company's internal financial controls over financial reporting.
- g) 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, as amended, in our opinion and to the best of our information and according to the explanations given to us:
 - i. The Company has disclosed the impact of pending litigations on its financial position in its financial statements.
 - ii. The Company has made provision, as required under the applicable law or accounting standards, for material foreseeable losses, if any, on long-term contracts including derivative contracts.
 - iii. As per written representation received from the management, there were no amounts which were required to be transferred to the Investor Education and Protection Fund by the Company.
 - iv. (a) The management has represented that, to the best of its knowledge and belief no funds have been advanced or loaned or invested (either from borrowed funds or share premium or any other sources or kind of funds) by the company to or in any other person or entity, including foreign entity ("intermediaries"), with the understanding, whether recorded in writing or otherwise, that the Intermediary shall, whether, directly or indirectly lend or invest in other persons or entities identified in any manner whatsoever by or on behalf of the company ("Ultimate Beneficiaries") or provide any guarantee, security or the like on behalf of the Ultimate Beneficiaries;
(b) The management has represented, that, to the best of its knowledge and belief no funds have been received by the company from any person or entity, including foreign entity ("Funding Parties"), with the understanding, whether recorded in writing or otherwise, the company shall, whether, directly or indirectly, lend or invest in other persons or entities identified in any manner whatsoever by or on behalf of the Funding Party ("Ultimate Beneficiaries") or provide any guarantee, security or the like on behalf of the Ultimate Beneficiaries;
(c) Based on such audit procedures that have been considered reasonable and appropriate in the circumstances, nothing has come to our notice that has caused us to believe that representations under sub-clause (a) and (b) contain any material misstatement.
- v. The dividend declared and paid during the year by the company is in compliance with section 123 of the Companies Act 2013

Place : Ranchi

Date: 15th June 2022



For Lodha Patel Wadhwa & Co.
Chartered Accountants
FRN 006271C

Sanjay Wadhwa
Partner
M.No. 074749

UDIN - 22074749AIUXGL8764

Annexure- 1 to the Independent Auditor's Report

(Referred to in paragraph 1 under Report on Other Legal and Regulatory Requirements' section of our report to the Members of Central Mine Planning & Design Institute Limited even date)

Comments on Directions under Sec 143(5) of the Companies Act, 2013 issued by
The Comptroller and Auditor-General of India

Sl.No.	Directions	Our Reply
(i)	Whether the company has system in place to process all the accounting transactions through IT System? If yes, the implications of processing of accounting transactions outside IT system on the integrity of the accounts along with the financial implications, if any, may be stated.	<p>There is a system in place to process all the accounting transactions through SAP system which has been implemented w.e.f 01st October, 2021. Prior to SAPERP, the accounting transactions were being processed through COALNET/Job Portal. The system processes all accounting transactions through IT enabled system but</p> <ul style="list-style-type: none"> - The SAP system of the company is still in its transition phase and gradually gaining stabilization - A few modules of SAP System are yet to be made functional. - The independent verification of the migration has not been done for SAP System. - A cutoff date, which was to be followed by blocking passing of further entries in the books of accounts, under SAP System by all the concerned departments for year-end annual audit was not followed at all. - This led to continuous changes in the results of various reports generated and it was a tedious job to co-relate the two reports generated in the span of a very short time. The passing of entries in books of accounts reportedly continued till 09.05.2022.
(ii)	Whether there is any restructuring of on existing loan or cases of waiver/write-off of debits/loans/ interest etc. made by a lender to the company due to the company's ability to repay the loan? If yes, the financial impact may be stated, Whether such cases are properly accounted for? (In case, lender is a government company, then this direction is also applicable for statutory auditor of lender company).	As per the information provided to us, there is no such case in the Company.
(iii)	Whether funds (grants/subsidy etc.) received for specific schemes from Central/State Government or agencies were properly accounted for / utilized as per terms and condition? List the cases of deviation.	As per the information provided to us, there is no such case in the Company.



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LODHA PATEL WADHWA & CO.
Chartered Accountants

Comments on Additional Directions under Sec 143(5) of the Companies Act, 2013 issued by the Comptroller and Auditor-General of India

Sl.No.	Additional Directions	Our Reply
1.	Whether coal stock measurement was done keeping in view the contour map. Whether physical stock measurement reports are accompanied by contour maps in all cases? Whether approval of the Competent Authority was obtained for new heap, if any, created during the year.	The Coal measurement is not required as the Company is into consultancy services and not coal production.
2.	Whether the company has conducted physical verification exercise of assets and properties at the time of merger/split/re-structure of an area. If so, whether the concerned subsidiary followed the requisite procedure.	As per the information provided to us, there is no merger/split/re-structure during the year.
3.	Whether separate Escrow Accounts for each mine has been maintained in CIL and its subsidiary companies. Also examine the utilization of the fund of the account.	Not Applicable
4.	Whether the impact of penalty for illegal mining as imposed by the Hon'ble Supreme Court has been duly considered and accounted for?	Not Applicable

For Lodha Patel Wadhwa & Co.

Chartered Accountant

FRN006271C



CA Sanja Kumar Wadhwa

Partner

M.No. 074749

Place : Ranchi

Date: 15th June 2022



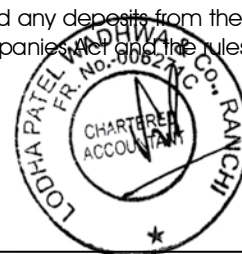
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ANNEXURE '2' TO THE INDEPENDENT AUDITOR'S REPORT

(Referred to in paragraph 2 under 'Report on Other Legal and Regulatory Requirements' section of our report to the Members of Central Mine Planning & Design Institute Limited of even date)

- (i) (a) (A) The Company has maintained proper records showing full particulars, including quantitative details and situation of Property, Plant and Equipment.
- (B) The Company has maintained proper records showing full particulars of intangible assets.
- (b) The Property, Plant and Equipment were physically verified by the management as per the policy of the company, by its duly constituted team for this purpose in a phased manner. As informed to us, no material discrepancy was noticed on verification.
- (c) According to information given to us, the title deeds of all immovable properties (other than properties -where the Company is lessee and lease agreements are duly executed in favour of lease) disclosed in the financial statements are held in the name of the Company. The title deeds were not produced before us for our further verification.
- (d) The Company has not revalued its Property, Plant & Equipment (including Right of Use asset) or intangible assets during the year.
- (e) According to information given to us, no proceeding has been initiated or is pending against the Company for holding any Benami Property under Benami Transactions (Prohibition) Act, 1988 (45 of 1988) and rules made thereunder.
- (ii) (a) As per the policy of the Company, Physical Verification of Stores and Spares is done at reasonable intervals by an external agency duly appointed by the Company and a report for position of stock as on 31st Dec 2021 has been obtained by Company and produced before us and no discrepancy is reported by the outside agency and no adjustment in value of inventory has been done.
- (b) The Company has not been sanctioned any working capital limit, during any point of the year, from any bank or financial institution on the basis of security of current assets.
- (iii) According to the Information and explanations given to us, the Company has not made investment in, provided any guarantee or security or granted any loans or advances in the nature of loans, secured or unsecured, to Companies, firms, Limited Liability Partnerships or any other parties.
- (a) The Company, during the year has not provided loan or provided advance in the nature of loan or stood guarantee or provided security to any other entity
- (b) As the Company has not made investment, provided guarantee, given security, this Clause is not applicable to the Company.
- (c) As the Company has not given any loan and advance in the nature of loans, this Clause is not applicable to the Company.
- (d) As Company has not given any loan and advance in the nature of loans, this Clause is not applicable to the Company.
- (e) As the Company has not granted any loans and advances in the nature of loans, this Clause is not applicable to the Company.
- (f) As the Company has not granted any loans and advances in the nature of loans, this Clause is not applicable to the Company.
- (iv) According to the information and explanations given to us, the Company has not granted loans, made investments, provided guarantees or security as defined in Section 185 and 186 of the Companies Act.
- (v) According to the Information and Explanation given to us, the Company has not accepted any deposits from the public, as defined in section 73 to 76 of the Companies Act or any relevant provisions of the Companies Act and the rules made thereunder.



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LODHA PATEL WADHWA & CO.
Chartered Accountants

- (vi) According to the Information and Explanation given to us, maintenance of Cost Records has been prescribed by the Central Government under section 148(1) of the Companies Act, 2013. As Informed to us, such records are maintained by the Company.
- (vii) (a) According to the information and explanation given to us and the records examined by us, the Company in general regular in depositing undisputed Statutory Dues including Goods and Service Tax, Provident Fund, Income Tax, Sales Tax, service tax, Value Added Tax, Customs Duty, Excise Duty, Cess and other material statutory dues applicable to it, with the appropriate authorities. There are no undisputed amounts payable in respect Goods and Service Tax, Provident Fund, Income Tax, Sales Tax, Value Added Tax, Customs Duty, Excise Duty, Cess and other material statutory dues in arrears as at March 31, 2022 for a period of more than six months from the date they become payable.
- (b) There are statutory dues, which are outstanding on account of certain dispute pending at various forums, out of which the Company has deposited Rs. 38.31 Crs. up to March 31, 2022 under protest. Details of such disputed statutory dues as on March 31, 2022 and payments made under protest are attached as Annexure-2 A (Contingent liability) to this report.
- (viii) According to the Information and Explanation given to us, the transactions which was not recorded in the books of account has not been surrendered or disclosed as income during the year in the tax assessments under the income Tax Act, 1961 (43 of 1961).
- (ix) The sub clauses (a) to (f) of Clause (ix) are not applicable to Company as the Company has not taken any loan.
- (x) (a) The clause no. (x) (a) with regards to monies raised by way of initial public offer or further public offer (including debt instruments) is not applicable to the Company.
- (b) The clause no. (x) (b) with regards to preferential allotment or private placement of shares of shares or convertible debentures is not applicable to the Company.
- (xi) (a) According to the information and explanation given to us, no fraud by the Company or any fraud on the Company has been noticed or reported during the year.
- (b) According to the information and explanation given to us, the report under sub-section (12) of section 143 of the Companies Act is not filed.
- (c) According to the explanations and information given to us, there is no whistle-blower complaint.
- (xii) The sub clauses no. (a) to (c) of clause (xii) with regards to Nidhi Company is not applicable to the Company.
- (xiii) This According to the information and explanations given to us, the clause no. xiii with regards to transactions with the related parties in compliance of sections 177 and 188 of the Companies Act are disclosed in financial statements.
- (xiv) (a) In our opinion and according to the information and explanations given to us, the Company has maintained an internal audit system commensurate with the size and nature of its business;
- (b) The reports of the Internal Auditors for the period ended 31st March, 2022 were considered by us.
- (xv) The clause no. xv with regards to non-cash transactions with directors or persons connected with him is not applicable to the Company.
- (xvi) The sub clauses no. (a) to (d) of clause (xvi), with regards to registration under section 45-IA of Reserve Bank of India Act, 1934 for Non-Banking Financial or Housing Finance activities and Core Investment Company are not applicable to Company.
- (xvii) According to the information and explanations given to us, the Company has not incurred cash loss in the financial year and in the immediately preceding financial year.



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LODHA PATEL WADHWA & CO.
Chartered Accountants

(xviii) The statutory auditor has not resigned during the year.

(xix) In our opinion and according to the information and explanations given to us and on the basis of the financial ratios, ageing and expected dates of realization of financial assets and payment of financial liabilities, other information accompanying the financial statements, no material uncertainty exists as on the date of the audit report that Company is not capable of meeting its liabilities existing at the date of balance sheet as and when they fall due within a period of one year from the balance sheet date.

(xx) The Company was not required to transfer unspent amount of other than on-going project to a fund specified in Schedule VII of the Companies Act or remaining unspent amount of on-going project to special account.

(xxi) This clause is not applicable to the Company.

For Lodha Patel Wadhwa & Co.
Chartered Accountants

FRN006271C

For Lodha Patel Wadhwa & Co.
CA Sanjay
Partner
M. No. 074749

Place: Ranchi

Date: 15th June 2022

UDIN- 22074749AIUXGL8764



ANNEXURE "3" TO THE INDEPENDENT AUDITOR 'S REPORT

(Referred to in paragraph 3(f) under 'Report on Other Legal and Regulatory Requirements' section of our report to the Members of Central Mine Planning & Design Institute Limited even date)

Report on the Internal Financial Controls Over Financial Reporting under Clause (i) of Sub-section 3 of Section 143 of the Companies Act, 2013 ("the Act")

We have audited the internal financial controls over financial reporting of Central Mine Planning & Design Institute Limited ("the Company") as of March 31, 2022 in conjunction with our audit of the financial statements of the Company for the year ended on that date.

Management's Responsibility for Internal Financial Controls

The Board of Directors of the Company is responsible for establishing and maintaining internal financial controls based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting issued by the Institute of Chartered Accountants of India. 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, 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

Our responsibility is to express an opinion on the internal financial controls over financial reporting of the Company based on our audit. We conducted our audit in accordance with the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting (the "Guidance Note") issued by the Institute of Chartered Accountants of India and the Standards on Auditing prescribed under Section 143(10) of the Companies Act, 2013, to the extent applicable to an audit of internal financial controls. Those Standards and the Guidance 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.

Our 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.

We believe that the audit evidence we 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 of the Company.

Meaning of Internal Financial Controls 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 purposes 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 transactions 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 authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized 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 subject 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 our opinion, to the best of our information and according to the explanations given to us, the Company has, in all material respects, an adequate internal financial controls system over financial reporting and such internal financial controls over financial reporting were operating effectively as at March 31, 2022, based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting issued by the Institute of Chartered Accountants of India.

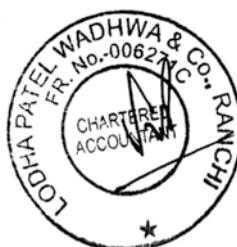
For Lodha Patel Wadhwa & Co.
Chartered Accountant

FRN006271C



For Lodha Patel Wadhwa & Co.
CA Sanjay
Partner
M. No. 074749

Place: Ranchi
Date: 15th June 2022



UDIN- 22074749AIUXGL8764

ANNUAL REPORT & ACCOUNTS 2021-22

LODHA PATEL WADHWA & CO.
Chartered Accountants

Annexure- 2 A" to the Independent Auditor's Report

(Referred In Annexure- 2 paragraphs vii(c) under 'Report on Other Legal and Regulatory Requirements' section of our Independent report to the Members of Central Mine Planning & Design Institute Limited even date)

Nature of the statue	Nature of the dues	Forum where dispute is pending	Pending period to which the Amount Relates	Amount (in Crores)
Income Tax Act, 1961	Disallowances of prior period expenses	CIT (A)	A.Y. 2008-2009	0.61
Income Tax Act, 1961	Disallowances of prior period expenses	CIT (A)	A.Y. 2009-2010	0.60
Income Tax Act, 1961	Disallowances of prior period expenses	CIT (A)	A.Y. 2010-2011	0.71
Income Tax Act, 1961	Disallowances of CSR, Medical Expenses and profit from sale of asset.	CIT (A)	A.Y. 2012-2013	0.33
Income Tax Act, 1961	Disallowances of CSR Expenses.	ITAT	A.Y. 2013-2014	0.51
Income Tax Act, 1961	Disallowances of CSR Expenses.	ITAT	A.Y. 2014-2015	0.69
Income Tax Act, 1961	Disallowance of Medical expenses grants to School & institutions. Sorts & Recreation and Environment & Tree Plantation	CIT (A)	A.Y. 2016-17	1.19
Income Tax Act, 1961	Disallowance of CSR, Provision for NCWA, Medical expenses, grants, canteen, crech and other employee benefits	CIT (A)	A.Y. 2017-18	31.67
Income Tax Act, 1961	Disallowance of Employee benefits expense like NCWA, Executive pay revision, Medical Expenses, grants to School & institutions, Sorts & Recreation.	CIT (A)	A.Y. 2018-19	55.02
Income Tax Act, 1961	Disallowance of subscription to club, funds and provision for gratuity.	CIT (A)	A.Y. 2019-20	9.14
Service Tax Act	Demand of arrear of Service Tax Interest and Penalty	Jharkhand High Court	A.Y. 1999-2005	5.05
Service Tax Act	Demand of Service Tax	Jharkhand High Court	A.Y. 1998-1999	3.82
Service Tax Act	Demand of Service Tax and penalty	CESTAT	A.Y. 2013-14 to 2017-18	60.16



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ANNEXURE- A (Other Matters- Independent Auditor's Report)

- (a) Refer Note No. 9 "Other Financial Assets" - Current - Claims & Other Receivables - Rs. 55.84 Crs.- forming part of the financial statements includes Rs. 49.80 Crs. for IND AS Adjustment and Rs. 6.04 Crs. for other claims & receivables which is subject to confirmation from the parties and consequential adjustment on reconciliation, if any.
- (b) Refer Note No. 10 "Other Non-Current Assets" - includes Capital Advances- Rs.2.95 Crs.- forming part of the financial statements is subject to confirmation from the parties and consequential adjustment on reconciliation, if any.
- (c) Refer Note No. 11 "Other Non-Current Assets"- includes Advance to CIL CIMFR Lab - Rs. 21.18 Crs. - as per information and explanation provided to us, this amount is continuing in the books of accounts since long and a corresponding liability of same amount i.e. Rs. 21.18 Crs. is appearing under Note No. 23 -Under "Other Current Liabilities". Both these figures are subject to confirmation and consequential adjustment on reconciliation, if any. The assets of the Company as well as liabilities of the company are over stated by Rs. 21.18 Crs. due to non-adjustment of the account balances at the year end.
- "Other Non-Current Assets" - further includes -Advance to CIL Survey of India-Rs. 77.37 Crs. as per information and explanation provided to us, this amount is continuing in the books of accounts since long and a corresponding liability of same amount i.e. Rs. 77.37 Crs. is appearing under Note No. 23 -Under "Other Current Liabilities"-CMPDI Shore for Survey of India. Both these figures are subject to confirmation and consequential adjustment on reconciliation, if any. The assets of the Company as well as liabilities of the Company are over stated by Rs.77.37 Crs. due to non adjustment of the account balances at the year end.
- (d) Refer Note No. 13 "Trade Receivables" - includes trade receivables of Rs. 6.90 Crs. comprising Govt. dues of Rs. 1.15 Crs. and dues from other parties i.e. other than CIL subsidiaries- Rs.5.75 Crs. The same figure is being carried in books of accounts since long and the Company could not obtain and produce before us the balance confirmation from these customers for the year 2021-22 or that of earlier years.
- (e) Refer Note No. 19 "Trade payables" -Rs. 150.94 Crs. forming part of the financial statements include payables which has been provided for or included as liability is subject to confirmation from the parties, consequential adjustment, reconciliation and final liability to be recognized based on actual invoicing by parties, as balance confirmation is not being obtained by the Company.
- (f) Refer Note No. 20 "Other Financial Liabilities" - includes amount of earnest money and security deposit which forms part of the financial statements is subject to confirmation from the parties and consequential adjustment on reconciliation, if any.



(g) Refer Note No 21 - "Provisions" Current-R s 1 44.88 Crs. forming part of the financial statements includes a sum of Rs 84.46 Crs. provided for as amount payable for Performance Related Pay out of Rs 48.69 Crs. is for 2021-22, Rs. 27.58 Crs. for 2020-21 and remaining Rs. 8.19 Crs. for 2019-20. As informed to us, the final expenditure and liability is subject to rating to be intimated by Coal India Limited (CIL), the holding company and therefore the Liability and Profit of the company is over or under stated to the extent of change of amount on final rating yet to be communicated by CIL. the Holding Company.

Further it includes Ex-Gratia - Rs. 14.08 Crs. - provision made for annual bonus. The said amount has been determined by taking the average of number of non-executives staff on yearly basis working in different Rls/units multiplied by Rs. 72.500 i.e. the amount paid as bonus in previous year. Current year's Profit may be understated or overstated to the extent of deviation from rate of Rs. 72.500 and the no. of employees actually eligible for bonus.

(h) Refer Note No. 23 "Other Current Liabilities" - includes Other Liabilities-Rs. 62.24 Crs. - as per information and explanation given to us- it includes year-end credit balances of various funds and advances of Rs. 1 25.41 Crs. and a debit balance for amount to be received at year end for PRE Fund amounting to Rs. 63.1 6 Crs.

(i) Refer Note No. 25 "Other Income" - includes Misc. income of Rs. 24.54 Crs. out of which Rs. 23.68 Crs. is amount of LD and penalty charges recovered from suppliers/vendors of the Company. It further includes Liability/Provision Write Backs- Rs. 1.13 Crs. which primarily is write back of provision on doubtful debts.

Our opinion is not qualified with regards to above.





Central Mine Planning & Design Institute Limited Ranchi F.Y. 2021-22

Reply to Annexure A- (Other Matters-Independent Auditors Report) for FY 2021-22

	QUERY	REPLY
(a)	Refer Note No. 9 "Other Financial Assets" - Current - includes Claims & Other Receivables - Rs. 55.84 Crs.-forming part of the financial statements includes Rs.49.80 Crs. For Ind AS Adjustment & Rs.6.04 Crs. for other claims & Receivables which is subject to confirmation from the parties and consequential adjustment on reconciliation, if any.	<p>Out of Rs.55.84 Crs. Rs.49.80 Crs. is contract assets created due to Ind AS 115 for which no confirmation is required.</p> <p>Out of rest Rs 6.04 crs, Rs.5.05 Crs. relates to receivable against disputed demand of Service Tax of Rs 5.05 cr. for the period 1998-2004 against which appeal has been filed before appropriate authority. Actually this is a payment under protest against the aforesaid demand. In next quarter, this amount will be transferred to the head "Deposit under Protest". No confirmation required against this.</p> <p>The rest are mostly related to current year.</p>
(b)	Refer Note No. 10 "Other Non-Current Assets" - includes Capital Advances -Rs.2.95Crs.-forming part of the financial statements is subject to confirmation from the parties and consequential adjustment on reconciliation, if any.	<p>Out of Rs.2.95 Crs., Rs.2.25 crs relates to payment against LC opened for Import of Foreign capital items and Rs 0.57 crs. for custom duty payment, Rs 6 lac. is for land advance of RI 6, Rs. 7 lac. for laptop advance to executives.</p> <p>There is no system for getting confirmation for these.</p>
(c)	Refer Note No. 11 "Other Non-Current Assets" - includes Advance to CIL CIMFR Lab - Rs. 21.18 Crs. - as per information and explanation provided to us, this amount is continuing in the books of accounts since long and a corresponding liability of same amount i.e. Rs. 21.18 Crs. is appearing under Note No. 23 -Under "Other Current Liabilities". Both these figures are subject to confirmation and consequential adjustment on reconciliation, if any. The assets of the Company as well as liabilities of the company are over stated by Rs. 21.18 Crs. due to non-adjustment of the account balances at the year end.	<p>A MoU has been entered into between CIL and CSIR (CIMFR) on 3.12.2011 for quality evaluation of Coal core explored from different regions of India during 11th plan period to be funded by CIL. CMPDI is the nodal agency in this case.</p> <p>The issue has already been taken up with concerned CT Lab department to give the present status of this 21.18 Cr. /arrange for early adjustment.</p> <p>The reply is awaited.</p>

	<p>Other Non-Current Assets" - further includes -Advance to CIL Survey of India-Rs. 77.37 Crs. as per information and explanation provided to us, this amount is continuing in the books of accounts since long and a corresponding liability of same amount i.e. Rs. 77.37 Crs. is appearing under Note No. 23 -Under "Other Current Liabilities"-CMPDI Share for Survey of India. Both these figures are subject to confirmation and consequential adjustment on reconciliation, if any. The assets of the Company as well as liabilities of the Company are over stated by Rs.77.37 Crs. due to non-adjustment of the account balances at the year end</p>	<p>This represents advance given to Survey of India for preparation of updated topographical maps of major Indian coal fields based on remote sensing techniques. The project is approved by CIL Board. Funding has also been done by CIL.</p> <p>The issue has been taken up with the concerned department to give the present status of this case/arrange for early adjustment.</p> <p>The reply is awaited.</p>																		
(d)	<p>Refer Note No. 13 "Trade Receivables"-includes trade receivables of Rs. 6.90 Crs. comprising Govt. dues of Rs. 1.15 Crs. and dues from other parties other than CIL subsidiaries - Rs. 5.75 Crs. The same figure is being carried in the books of accounts since long and the Company could not obtain and produce the balance confirmation from these customers for the year 2021-22 or earlier years.</p>	<p>Dues of Rs 6.15 crs. as on 31.03.2022 is outstanding for more than 3 years which is related to outside parties (Govt/PSU other than CIL/Pvt and MOC New Delhi.</p> <p>We are regularly writing letters to majority of the concerned parties for realization of dues/balance confirmation.</p>																		
(e)	<p>Refer Note No. 19 "Trade payables" -Rs. 150.94 Crs. forming part of the financial statements include payables which has been provided for or included as liability is subject to confirmation from the parties, consequential adjustment, reconciliation and final liability to be recognized based on actual invoicing by parties, as balance confirmation is not being obtained by the Company.</p>	<p>The detailed breakup of Rs 150.94 crs. is as under</p> <table><tr><th>Particulars</th><th>Amount in crs.</th></tr><tr><td>Domestic Vendor</td><td>37.38</td></tr><tr><td>Inter Co vendor</td><td>0.85</td></tr><tr><td>Creditors</td><td>0.37</td></tr><tr><td>GR/IR clearing</td><td>3.62</td></tr><tr><td>SR/IR clearing</td><td>108.49</td></tr><tr><td>Stale Cheque</td><td>0.13</td></tr><tr><td>Vendor GST withheld</td><td>0.10</td></tr><tr><td>Total</td><td>150.94</td></tr></table> <p>Letters/emails have already been sent to the concerned Domestic vendors/creditors for the confirmation of balances as on 31.03.2022. The reply has been received from few parties.</p>	Particulars	Amount in crs.	Domestic Vendor	37.38	Inter Co vendor	0.85	Creditors	0.37	GR/IR clearing	3.62	SR/IR clearing	108.49	Stale Cheque	0.13	Vendor GST withheld	0.10	Total	150.94
Particulars	Amount in crs.																			
Domestic Vendor	37.38																			
Inter Co vendor	0.85																			
Creditors	0.37																			
GR/IR clearing	3.62																			
SR/IR clearing	108.49																			
Stale Cheque	0.13																			
Vendor GST withheld	0.10																			
Total	150.94																			

(f)	<p>Refer Note No. 20 "Other Financial Liabilities" - includes amount of earnest money and security deposit which forms part of the financial statements is subject to confirmation from the parties and consequential adjustment on reconciliation, if any.</p>	<p>There has not been any such practice to obtain confirmation for Earnest money and security deposit.</p> <p>However, letters/mails have already been sent to the concerned Domestic vendors/creditors for the confirmation of balances as on 31.03.2022.</p>
(g)	<p>Refer Note No 21 - "Provisions" Current-Rs. 144.88 Crs. forming part of the financial statements includes a sum of Rs 84.46 Crs. provided for as amount payable for Performance Related Pay out of Rs 48.69 Crs. is for 2021-22. Rs. 27.58 Crs. for 2020-21 and remaining Rs. 8.19 Crs. For 2019-20.</p> <p>As informed to us, the final expenditure and liability is subject to rating to be intimated by Coal India Limited (CIL), the holding company and therefore the Liability and Profit of the company is over or under stated to the extent of change of amount on final rating yet to be communicated by CIL, the Holding , Company.</p> <p>Further it includes Ex-Gratia - Rs, 14.08 Crs. - provision made for annual bonus. The said amount has been determined by taking the average of number of non-executives staff on yearly basis working in different Rls/units multiplied by Rs. 72,500 i.e. the amount paid as bonus in previous year. Current year's Profit may be understated or overstated to the extent of deviation from rate of Rs. 72,500 and the no. of employees actually eligible for bonus.</p>	<p>No comments as regard PRP provision for the FY 2020-21 and 2021-22. Further, provision has been made based on figure provided by CIL.'</p> <p>The provision of Rs 8.19 crore of FY 2019-20 pertains particularly to retired executives, board level executives and certain on roll executives (transfer case). The payment of board level executives is still pending due to final rating. The payment of certain On roll /retired executives is also pending due to certain reason.</p> <p>A payment of Rs 2.35 Cr. has already been made in FY. 2022-23 till date.</p> <p>The balance of provision if any existing after payment to all executives will be reversed in FY 2022-23.</p> <p>No comments. The Ex gratia provision of Rs 14.08 crs. is related to FY 2021-22 created/estimated based on actual rate of exgratia paid for FY 2020-21</p>

(h)	Refer Note No. 23 "Other Current Liabilities" - includes Other Liabilities- Rs. 62.24 Crs. - as per information and explanation given to us- it includes year-end credit balances of various funds and advances of Rs. 125.41 Crs. and a debit balance for amount to be received at year end for PRE Fund amounting to Rs. 63.16 Crs.	The debit balance of PRE Fund amounting Rs. 63,16 crores represents bills passed from expenditure section but pending for payment in cash section due to non-availability of PRE Fund (MoC Fund). The same will be paid by cash section after receiving fund for PRE work from Ministry of Coal.
(i)	Refer Note No. 25 "Other Income" -includes Misc. income of Rs. 24.54 Crs. out of which Rs. 23.68 Crs. is amount of LD and penalty charges recovered from suppliers/vendors of the Company. It further includes Liability/Provision Write Backs- Rs. 1.13 Crs. which primarily is write back of provision on doubtful debts.	As per prevalent practice amount of LD and penalty charges recovered from suppliers / vendors of the Company is taken in Other income . Further, Rs 1.13 Crs. represents the reversal of excess provision made for doubtful debts.

Addendum - V



SATISH KUMAR & ASSOCIATES
(COMPANY SECRETARIES)

SECRETARIAL AUDIT REPORT

*For The Financial Year Ended March
31st, 2021*

[Pursuant to Section 204(1) of the Companies Act, 2013 and Rule No. 9 of the Companies Appointment and Remuneration of Managerial Personnel) Rules, 2014]

Satish Kumar & Associates

Company Secretaries

Office No. 603, 6th Floor, Samridhi Square

Kishore Gunj Chowk

Ranchi- 834001

Ph:-09334606570/ 09135009905/ 0651-2212943

E-Mail :-

cssatish26@gmail.com/skaranchioffice@gmail.com

PAN:-ADGFS8830H

To,

The Members,

Central Mine Planning & Design Institute Limited

Gondwana Place, Kanke Road Ranchi-834008

We have conducted the Secretarial Audit of the compliance of applicable statutory provisions and the adherence to good corporate practices by **M/s CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED** (hereinafter called the "Company"). Secretarial Audit was conducted in a manner that provided us a reasonable basis for evaluating the corporate conducts/statutory compliances and expressing our opinion thereon.

Based on our verification of the Company's books, papers minute books, forms and return filed and other records maintained by the Company and also the information provided by the Company, its officers, agents and authorized representatives during the audit period from April, 2021 to March,

2022, complied with the statutory provisions listed hereunder.

We have examined the registers, records, books and papers of **M/s Central Mine Planning & Design Institute Limited** ("the Company") for the Financial Year ended on 31st March, 2022 according to the provisions of:

1. The Companies Act, 2013 and the Rules made there under.
2. Secretarial Standards issued by the Institute of Company Secretaries of India.

OFFICE No. 603, SAMRIDHI SQUARE, 6TH FLOOR KISHORE GANJ CHOWK, RANCHI-834001

Contact No: 0651-2212943, 09334606570. Email id: cssatish26@gmail.com, skaranchi2@gmail.com



SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

3. The Depositories Act, 1996 and the Regulations and Bye-laws framed there under.

4. The SEBI (Listing Obligations & Disclosure Requirements) Regulations, 2015.

5. Guidelines on Corporate Governance for Central Public Sector Enterprises, issued by Department of Public Enterprises vide their OM No. 18(8)/2005-GM dated 14th May, 2010.

6. Contract Labour (Regulation and Abolition) Act, 1970.

7. The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013.

8. The Environment (Protection) Act, 1986 and other environmental laws and rules framed there under.

9. Company has complied with all applicable specific laws as applicable on the Company (Referred as Annexure - 1).

In our opinion, based on the examination carried out by us, verification of records produced to us and according to the information furnished to us by the Company and Officers, the Company has complied with the provisions of the Companies Act, 2013 ("the Act") and Rules made under the Act, the Memorandum and Articles of association of the Company, subject to the provisions as stated specifically herein; and also that the Company has

proper board-processes and compliance-mechanism in place to the extent, in the manner and subject to the reporting made hereinafter:

1. Maintenance of various statutory registers and documents and making necessary entries therein.

2. Form of Balance Sheet as prescribed under Part I, form of Statement of Profit and Loss as prescribed under Part II and general instructions for preparation of the same as prescribed in Schedule III to the Act.

3. Composition of the Board of Directors with an adequate balance of Executive and Non-Executive & Independent Director including Women Director during the period under review.

4. Registered Office and publication of the name of the Company.

5. Filing of requisite forms and returns with the Registrar of Companies, Jharkhand within the time prescribed under the Act and the rules framed there under.

6. Convening and holding of the Meetings of Board of Directors and Committees thereof.

7. Convening and holding of 46th Annual General Meeting of the Members on Wednesday, 28th July, 2021.

8. Maintenance of Minutes of the proceedings

OFFICE No. 603, SAMRIDHI SQUARE, 6TH FLOOR KISHORE GANJ CHOWK, RANCHI-834001

Contact No: 0651-2212943, 09334606570. Email id: cssatish26@gmail.com, skaranchi2@gmail.com



SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

of the Annual General Meeting, Extraordinary General Meeting, Board Meetings and Meetings of Committees of the Board, properly recorded in loose leaf form, which are being bound in a book form at regular intervals.

9. Payment of Remuneration to Directors.
10. Appointment and Remuneration of Statutory Auditors, Internal Auditors and Cost Auditors.
11. Composition and terms of reference of the Audit Committee and Nomination & Remuneration Committee.
12. Service of Documents by the Company on its Members and Auditors.
13. Undertaking of all the compliances with regard to filling of the various Statutory Returns, maintenance of Registers of Contractors, etc as prescribed under Contract Labour (Regulation and Abolition) Act, 1970, and all other applicable Labour Laws based on the certificates received from the concerned officials.
2. The Directors have complied with the disclosure requirements in respect of their eligibility of appointments, their being independent and compliance with the Code of Conduct of Directors and Senior Management Personnel.
3. There was no prosecution initiated and no fines or penalties were imposed on the Company, its Directors and Officers, during the period under review.
4. No compliances of any nature are pending with the company based on the compliance mechanism established by the company and on the basis of the Compliance Certificate(s) & other certificate issued by the Company Secretary, Compliance Officer of the Company and other Departmental Heads of the Company.
5. We further report that during the Audit, the Company has not incurred any specific event/action that can have a major bearing on the Company's affairs in pursuance of the above referred laws, rules, regulations, guidelines, standards, etc.

We further report that

1. The Directors have disclosed their Shareholdings and Directorships in other companies and interests in other entities as and when required and their interests have been noted and recorded by the Board.

MANAGEMENT'S RESPONSIBILITY

1. Maintenance of Secretarial Records is the responsibility of the management of the Company. Our responsibility is to express an opinion on these secretarial records based on our Audit.
2. We have followed the audit practices and the processes as were appropriate to obtain

OFFICE No. 603, SAMRIDHI SQUARE, 6TH FLOOR KISHORE GANJ CHOWK, RANCHI-834001

Contact No: 0651-2212943, 09334606570. Email id: cssatish26@gmail.com, skaranchi2@gmail.com





SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

reasonable assurance about the correctness of the contents of the secretarial records. The verification was done on test basis to ensure that correct facts are reflected in secretarial records. We believe that the processes and practices followed by us provide a reasonable basis to form our opinion.

3. We have examined the financial records in line of the compliances of the Companies Act.
4. The compliance of the provisions of Corporate Governance and other applicable laws, rules, regulations, standards is the responsibility of management. Our examination was limited to the verification of procedure on test basis.
5. The Secretarial Audit report is neither an assurance as to the future viability of the Company nor of the efficacy or effectiveness with which the management has conducted the affairs of the Company.

Disclaimer:-

1. We have not verified the correctness and appropriateness of financial records and books of account of the Company.
2. Further the compliances with regard to other laws are being reported as complied merely on the basis of certificates received from the concerned officials.
3. Wherever required, we have obtained the Management Representation about the compliance of aforesaid Laws, Rules, Regulations, Standards, Guidelines and happening of events etc.

Place : Ranchi
Date: 24th May 2022
UDIN : F008423D000374932

For Satish Kumar & Associates.

Satish Kumar
Company Secretary
FCS Np. : 8423
CP No. : 9788

OFFICE No. 603, SAMRIDHI SQUARE, 6TH FLOOR KISHORE GANJ CHOWK, RANCHI-834001

Contact No: 0651-2212943, 09334606570. Email id: cssatish26@gmail.com, skaranchi2@gmail.com



SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

Annexure-I

List of Other Laws

S.No.	Name of the Act / Rules/ Regulations	Applicability on Company	Status of Compliance
1.	The Coal Mines Act, 1952.	Applicable	Complied
2.	The Payment of Wages (Mines) Rules, 1956.	Applicable	Complied
3.	Coal Mines Provident Fund and Miscellaneous Provisions Act, 1948	Applicable	Complied
4.	The Payment of Undisbursed Wages (Mines) Rules, 1989	Applicable	Complied
5.	Indian Electricity Act, 2003 and the Indian Electricity Rules, 1956	Applicable	Complied
6.	The Water (Prevention & Control of Pollution) Act, 1974 and Rules made thereunder	Applicable	Complied
7.	The Air (Prevention & Control of Pollution) Act, 1981.	Applicable	Complied
8.	Indian Explosives Act, 1884.	Applicable	Complied
9.	Securities Contract Regulation Act, 1956	Not Applicable	N.A
10.	Foreign Exchange Management Act, 1999 and the rules and regulations made thereunder to the extent of Foreign Direct Investment, Overseas Direct Investment and External Commercial Borrowings;	Not Applicable	N.A
11.	Regulations and Guidelines prescribed under the Securities and Exchange Board of India Act, 1992		
	a. The SEBI (Issue of Capital & Disclosure Requirement) Regulations, 2009	Not Applicable	N.A
	b. The SEBI (Substantial Acquisition of Shares and Takeover) Regulations, 2011	Not Applicable	N.A
	c. The SEBI (Share Based Employee Benefits) Regulations, 2014.		

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	d. The SEBI (Issue & Listing of Debt Securities) Regulations, 2009.	Not Applicable	N.A
	e. The SEBI (Delisting of Equity Shares) Regulations, 2009.	Not Applicable	N.A
	f. The SEBI (Buyback of Securities) Regulations, 1998	Not Applicable	N.A
12.	Colliery Control Order, 2000 and Colliery Control Rules, 2004.	Not Applicable	N.A
13.	The Coal Mines Regulations, 2017.	Not Applicable	N.A
14.	Coal Mines Pension Scheme, 1998.	Not Applicable	N.A
15.	Coal Mines Conservation and Development Act, 1974.	Not Applicable	N.A
16.	The Mines Vocational Training Rules, 1966.	Not Applicable	N.A
17.	The Mines Creche Rules, 1961.	Not Applicable	N.A
18.	The Mines Rescue Rules, 1985.	Not Applicable	N.A
19.	Coal Mines Pithead Bath Rules, 1946	Not Applicable	N.A
20.	Maternity Benefit (Mines and Circus) Rules, 1963	Not Applicable	N.A
21.	The Explosives Rules, 2008.	Not Applicable	N.A
22.	Mineral Concession Rules, 1960	Not Applicable	N.A
23.	Mines and Minerals (Development and Regulation) Act, 1957	Not Applicable	N.A
24.	The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016	Not Applicable	N.A
24.	Public Liability Insurance Act, 1991 and Rules made thereunder.	Not Applicable	N.A

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Addendum - VI

Contracts or Arrangements with related parties U/s 188 (1).

Form No. AOC-2

(Pursuant to clause (h) of sub-section (3) of section 134 of the Act and Rule 8(2) of the Companies (Accounts) Rules, 2014)

Form for disclosure of particulars of contracts/arrangements entered into by the company with related parties referred to in sub-section (1) of section 188 of the Companies Act, 2013 including certain arm's length transactions under third proviso thereto.

S.No.	Particulars	Details
1.	Details of contracts or arrangement or transactions not at arm's length basis	NIL
a	Name(s) of the related party and nature of relationship	
b	Nature of contracts/arrangements/transactions	
c	Duration of the contracts/arrangements/transactions	
d	Salient terms of the contracts or arrangements or transactions including the value, if any	
e	Justification for entering into such contracts or arrangements or transactions	
f	Date(s) of approval by the Board	
g	Amount paid as advances, if any:	
h	Date on which the special resolution was passed in general meeting as required under first proviso to section 188	
2.	Details of material contracts or arrangement or transactions at arm's length basis	As per Annexure -A
a	Name (s) of the related party and nature of relationship	
b	Nature of contracts/arrangements/transactions	
c	Duration of the contracts/arrangements/transactions	
d	Salient terms of the contracts or arrangements or transactions including the value, if any:	
e	Date(s) of approval by the Board if any:	
f	Amount paid as advances, if any	

Annexure -A**Related Party Transactions within Group as on 31.03.2022.**

The Company being a Government related entity is exempt from the general disclosure requirements in relation to related party transactions and outstanding balances with the controlling Governments and another entity under same Government.

As per Ind AS 24, following are the disclosures regarding nature and amount of significant transactions under same management.

(₹ Rs. in Crore)

Name of the Company	Amount of transactions during the year	Nature of Transactions
Eastern Coalfields Limited	92.13	Sales
Bharat Coking Coal Limited	56.83	Sales
Central Coalfields Limited	135.18	Sales
Western Coalfields Limited	154.68	Sales
South Eastern Coalfields Limited	322.83	Sales
Northern Coalfields Limited	112.31	Sales
Mahanadi Coalfields Limited	89.76	Sales
Coal India Limited (CIL) (100% Holding Company)	7.40	Sales
Grand Total	971.12	

Addendum - VII

ANNEXURE FORMING PART OF DIRECTORS' REPORT FOR THE YEAR ENDED 31.03.2022-INFORMATION AS PER RULES 5(2) OF THE COMPANIES ACT, 2013 READ WITH COMPANIES (Appointment and Remuneration of Managerial Personnel) , Rules 2014.

Sl. No	Name	Designati-on/nature of work	Remuneration During the year (Rs.)	Nature of employment Permanent / temporary	Qualification	Experience (yrs.)	Date of commencement	Age on 31st Mar 2017 (Yrs)	Last employment held	% of eq. Shares held	Whether related to Dir./ Manager
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
(a)	<p>Employed throughout the financial year under review and were in receipt of remuneration for that financial year in the aggregate of not less than Rs.1, 02, 00,000/-.</p> <p style="text-align: center;">-----Nil-----</p>										
(b)	<p>Employed for the part of the financial year under review and were in receipt of remuneration for any part of that financial year at a rate which in the aggregate was not less than Rs. 8,50,000/- per month.</p> <p style="text-align: center;">-----Nil-----</p>										
(c)	<p>Employed throughout the year or part and was in receipt of remuneration in excess of that drawn by MD/WTD/Manager and holds not less than two percent of equity shares of the company.</p> <p style="text-align: center;">-----Nil-----</p>										

ADDENDUM - VIII



सत्यमेव जयते

No. 132 /DGA(Coal)/Kol/Report/CMPDIL/Accounts/Comments/2021-22

संख्या

No.

भारतीय लेखा तथा लेखा परीक्षा विभाग
INDIAN AUDIT AND ACCOUNTS DEPARTMENT
कार्यालय, महानिदेशक लेखापरीक्षा (कोयला)
OFFICE OF THE DIRECTOR GENERAL OF AUDIT (COAL)
कोलकाता / KOLKATA

दिनांक / Dated. 12.07. 20 22

To
The Chairman-cum-Managing Director,
Central Mine Planning & Design Institute Limited
Ranchi

Subject: Comments of the Comptroller and Auditor General of India under Section 143(6)(b) of the Companies Act, 2013 on the Financial Statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2022.

Sir,

I forward herewith the Comments of the Comptroller and Auditor General of India under Section 143(6)(b) of the Companies Act, 2013 on the financial statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2022.

The receipt of this letter may please be acknowledged.

Encl: As stated.

Place: Kolkata
Dated: 12 July 2022

Yours faithfully,

(Mausumi Ray Bhattacharyya)
Director General of Audit (Coal)
Kolkata

पुराना निजाम महल (प्रथम तल), 234/4, आचार्य जगदीश चन्द्र बोस रोड, कोलकाता-700 020
OLD NIZAM PALACE (First Floor), 234/4, Acharya Jagadish Ch. Bose Road, Kolkata-700 020
Phones : 2287-5380, 2287-7165, 2281-5784, 2290-0314, 2287-8838 Fax : 2280 0062
e-mail : dgacoalkol@cag.gov.in



**COMMENTS OF THE COMPTROLLER AND AUDITOR GENERAL OF INDIA
UNDER SECTION 143 (6) (b) OF THE COMPANIES ACT, 2013 ON THE FINANCIAL
STATEMENTS OF CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED
FOR THE YEAR ENDED 31 MARCH 2022.**

The preparation of financial statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2022 in accordance with the financial reporting framework prescribed under the Companies Act, 2013 (Act) is the responsibility of the management of the company. The statutory auditor appointed by the Comptroller and Auditor General of India under section 139 (5) of the Act is responsible for expressing opinion on the financial statements under section 143 of the Act based on independent audit in accordance with the standards on auditing prescribed under section 143 (10) of the Act. This is stated to have been done by them vide their Revised Audit Report dated 15 June 2022 which supersedes their earlier Audit Report dated 10 May 2022.

I, on behalf of the Comptroller and Auditor General of India, have conducted a supplementary audit of the financial statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2022 under section 143(6)(a) of the Act. This supplementary audit has been carried out independently without access to the working papers of the statutory auditors and is limited primarily to inquiries of the statutory auditors and company personnel and a selective examination of some of the accounting records. The Audit Report has been revised by the statutory auditor to give effect to some of my audit observations raised during supplementary audit.

In addition, I would like to highlight the following significant matters under section 143 (6)(b) of the Act which have come to my attention and which in my view are necessary for enabling a better understanding of the financial statements and the related audit report:

A. Comment on Financial Position

Balance Sheet

Provisions (Note No. 21) Non-Current – ₹. 88.76 crore

Provisions (Note No.21) Current — ₹. 144.88 crore

Salary and wages of Non-executive of CIL and all the subsidiaries including CMPDIL are finalized in every five years after finalization of National Coal Wage Agreement (NCWA). The



pay revision was due from 01 July 2021 as per NCWA-XI. CMPDIL had made a provision for expected pay revision in the books of accounts.

Despite making provision for expected pay revision, actuarial assessed the liability with same assumption which was considered in the previous year 2020-21 and assessed the actuarial liability for the year without considering the salary revision of non-executive which was due from 01 July 2021.

The above has resulted in understatement of provisions in respect of retirement benefits and profit for the year (amount not quantified).

For and on behalf of the
Comptroller and Auditor General of India



(Mausumi Ray Bhattacharyya)
Director General of Audit (Coal)
Kolkata

Place: Kolkata

Dated: 12 July 2022





The Comments of the Comptroller and Auditor General of India Under Section 143(6) (b) of the Companies Act 2013 on the Financial Statements of Central Mine Planning & Design Institute Limited for the year ended 31.03.2022 was received on 12.07.2022 . The Management Reply for the same is given below:

Sl. No.	COMMENTS OF THE COMPTROLLER AND AUDITOR GENERAL OF INDIA UNDER SECTION 143(6) (b) OF THE COMPANIES ACT,2013 ON THE FINANCIAL STATEMENTS OF CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED FOR THE YEAR ENDED 31 MARCH 2022	Management Reply
	<p>The preparation of financial statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2022 in accordance with the financial reporting framework prescribed under the Companies Act, 2013(Act) is the responsibility of the management of the company. The statutory auditor appointed by the Comptroller and Auditor General of India under section 139(5) of the Act is responsible for expressing opinion on the financial statements under section 143 of the Act based on independent audit in accordance with the standards on auditing prescribed under section 143(10) of the Act. This is stated to have been done by them vide their Revised Audit Report dated 15 June 2022 which supersedes their earlier Audit Report dated 10 May 2022.</p> <p>I, on behalf of the Comptroller and Auditor General of India, have conducted a supplementary audit of the Financial statements of Central Mine Planning and Design Institute Limited for the year ended 31 March 2022 under section 143(6)(a) of the Act. This supplementary Audit has been carried out independently without access to the working papers of the statutory auditors and is limited primarily to inquiries of the statutory auditors and company personnel and a selective examination of some of the accounting records. The audit report has been revised by the statutory auditor to give effect to some of my audit observations raised during supplementary audit.</p> <p>In addition, I would like to highlight the following significant matters under section 143 (6)(b) of the Act which has come to my attention and which in my view are necessary for enabling a better understanding of the financial Statements and the related Audit Report</p> <p>A. Comment on Financial Position</p> <p>Balance Sheet Provisions (Note No. 21) Non Current–Rs 88.76 crore Provisions-(Note No. 21) Current –Rs 144.88 crore</p> <p>Salary and wages of Non-executive of CIL and all the subsidiaries including CMPDI are finalized in every five years after finalization of National Coal Wage Agreement (NCWA). The pay revision was due from Despite making provision for expected pay revision, actuarial assessed the liability with same assumption which was considered in the previous year 2020-21 and assessed the actuarial liability for the year without considering the salary revision of non-executive which was due from 01 July 2021.</p> <p>The above has resulted in understatement of provisions in respect of retirement benefits and profit for the year (amount not quantified)</p>	<p>The Observation of the audit is not justified as the actuarial assumptions have been considered in accordance with relevant principles of Ind AS 19, Employee Benefits.</p> <p>Considering Para 75 to para 98 of Ind AS 19 Employee benefits regarding Actuarial Assumptions, it is evident that the salary inflation of 6.25% in the case of non-executives is a long-term assumption considering factors such as annual increment, inflations, promotions, NCWA agreements, and other relevant factors as required in Ind AS 19, Employee benefits. Therefore, NCWA of Non-Executives set out in their formal plan of employment are already considered in the long-term assumptions of salary inflation of 6.25% p.a.</p> <p>In view of the above, the observation of the supplementary audit is not tenable as the same is not in accordance with the requirements of Ind AS.</p>

Addendum - IX**REPORT ON CORPORATE SOCIAL RESPONSIBILITY (CSR) FOR FINANCIAL YEAR 2021-22****1. Brief outline on CSR policy of the Company.**

Central Mine Planning & Design Institute Limited (CMPDIL) is undertaking different developmental activities under Corporate Social Responsibility (CSR) following the latest DPE guidelines and provisions of the Companies Act, 2013. The allocation of funds is done as per the CSR policy of CMPDIL under which the higher of the two amounts – 2% of the average net profit for the three immediately preceding financial years is allocated for a particular financial year. The CSR policy of CMPDIL is present for public view on its website www.cmpdi.co.in.

2. Composition of CSR committee:

Sl. No.	Name of Director	Designation nature of Directorship	Number of meetings of CSR committee held during the year	Number of meeting of CSR Committee attended during the Year
1.	Shri Pramod Singh Chauhan	Chairman	6	6
2.	Smt. Alka Panda	Member	6	6
3.	Dr. Krishna Chandra Pandey	Member	6	6
4.	Shri R. N. Jha	Member	6	6
5.	Shri S. K. Gomasta	Member	6	6

3. Provide the web-link where Composition of CSR committee, CSR policy and CSR projects approved by the board are disclosed on the website of the company.

The details of Composition of CSR committee, CSR policy and CSR projects approved by the Board are disclosed on the website Composition of CSR committee, CSR policy and CSR projects approved by the board are disclosed on the website at <https://www.cmpdi.co.in/csr.php>

4. 8 of the Companies (Corporate Social responsibility policy) Rules, 2014, if applicable (attach the report). Provide the details of Impact assessment of CSR projects carried out in pursuance of sub- rule

As per the new CSR rules, no CSR project undertaken by CMPDIL fall under the purview of Impact Assessment. However, physical inspection by teams formed by CMPDIL HQ is done for the CSR projects/activities.

5. Details of the amount available for set off in pursuance of sub-rule (3) of rule 7 of the Companies (Corporate Social responsibility policy) Rules, 2014 and amount required for set off for the financial year, if any

Sl. No.	Financial Year	Amount available for set-off from preceding financial years(in Rs.)	Amount required to be set-off for the financial year, if any (in Rs.)
1	2021-22	84,000.00	NIL
	TOTAL		



6. Average net profit of the company as per section 135(5):

Head	Amount (Rs. In Crores)
PBT for FY 2020-21	414.49
PBT for FY 2019-20	312.62
PBT for FY 2018-19	263.82
Total	990.93
Average of the preceding three years	330.31

7. (a) Two percent of average net profit of the company as per section 135(5)

Two percent of the Average Net Profit of the preceding three years was Rs. 6.6062crores.

(b) Surplus arising out of the CSR projects or programmes or activities of the previous financial year.

No surplus has arisen out of the CSR projects or programmes or activities of the previous financial year.

(c) Amount required to be set off for the financial year, if any

No amount is to be set off for the financial year.

(d) Total CSR obligation for the financial year (7a+7b-7c).

The mandatory amount to be spent under CSR by CMPDIL for the financial year 2021-22 was Rs. 6.6062 crores.

8. (a) CSR amount spent or unspent for the financial year :

Total Amount Spent for the Financial Year. (in Rs)	Amount Unspent (in Rs.)				
	Total Amount transferred to Unspent CSR Account as per section 135(6).		Amount transferred to any fund specified under Schedule VII as per second proviso to section 135(5).		
	Amount	Date of transfer.	Name of the Fund	Amount.	Date of transfer.
6,85,89,000.00	Nil	NA	Swachh Bharat Kosh	3.30 crore	31.03.2022

(b) Detail of CSR amount spent against ongoing projects for the financial year :

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
1	Azadi ka Amrut Mahotsava (AKAM)	Point IV,Schedule VII: Environmental Sustainability	Yes	Ranchi	Jharkhand	1 year	3.00	2.989	0.000	Yes	NA	
2	Swachhta Action Plan (CMPDIL HQ & all RIs)	Point I,Schedule VII: Promoting Sanitation	Yes	Ranchi	Jharkhand	1 year	1.00	0.989	0.000	Yes	NA	
3	Support for setting up ultrasound machine-colour doppler system in facilitating treatment to TB patients,Ranchi	Point I,Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	10.50	10.500	0.000	No	Ramakrishna Mission Tuberculosis Sanatorium, Tupudana, Ranchi	CSR00006101
4	Conducting skill development training to 80 underprivileged/unemployed/underemployed youths of Jharkhand in Machine Operator (6 month course)	Point II, Schedule VII:Employment enhancing vocational skills	Yes	Ranchi	Jharkhand	1 year	68.00	68.000	0.000	No	Central Institute of Petrochemicals Engineering & Technology (CIPET), Ranchi	CSR00008481

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise (in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
5	Gender Empowerment of Dhuku Women- Socio Legal Recognition & Mainstreaming of Women in Live-in Relationship, Khunti.	Point III, Schedule VII: Empowering women, reducing inequalities faced by socially & economically backward groups	Yes	Khunti	Jharkhand	1 year	12.60	12.210	0.000	No	NIMITTA, Ranchi	CSR00002000
6	One number of medical camp	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	2.93	2.310	0.000	Yes	NA	
7	Renovation of Birsa School, Hatiagonda, Ranchi	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 year	35.00	0.000	0.000	Yes	NA	
8	Support for education through sponsorship and scholarship to Birsa Uchha Vidhyalaya, Ranchi	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 year	7.27	0.000	0.000	Yes	NA	

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
9	Development of Misirgonda village near CMPDIL HQ, Ranchi through the facility of toilet blocks and solar lighting Misirgonda, Behind CMPDIL office, Ranchi, Jharkhand	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	47.10	0.000	0.000	Yes	NA	
10	A) Project Proposal for providing facility of toilets in Two Government High Schools, Kanke, Ranchi	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 year	41.40	0.000	0.000	Yes	NA	
11	B) Project Proposal for setting up Virtual Reality Labs in one Government High School, Kanke, Ranchi		Yes	Ranchi	Jharkhand	1 year	21.98	0.000	0.000	No	District Rural Development Agency, Ranchi	CSR00020742
12	Assisting in livelihood through providing vaccine boxes to 2000 pashu sakhis for effective vaccination in livestock in different districts of Jharkhand	Point II, Schedule VII: Promoting livelihood	Yes	Ranchi	Jharkhand	1 year	26.25	0.000	0.000	No	Jharkhand State Livelihood Mission, Ranchi	

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

(A Subsidiary of Coal India Limited)



1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise (in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
13	Identification and distribution of Aids and Assistive Devices to persons with disability, Ranchi, Jharkhand	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	30.00	29.538	0.000	No	Artificial Limbs Manufacturing Corporation of India (ALIMCO), Kanpur	CSR00000532
14	Support to hospitalization of twenty leprosy patients of Gandhi Memorial Leprosy Foundation, Balarampur Unit, West Bengal for the Financial Year 2021-22.	Point I, Schedule VII: Promoting Healthcare	Yes	Purulia	West Bengal	1 year	8.15	8.148	0.000	No	Pyari Foundation-India Trust, Balarampur, Purulia (WB)	CSR00026115
15	Proposal for "Containment of COVID-19" in view of recent out-break of Pandemic COVID-19 (Omicron Variant)	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	2.00	0.000	0.000	No	District Rural Development Agency, Ranchi	CSR00020742
16	Requirement of medical equipments for Covid diagnostic and medical surgery for District Hospital, Ranchi in preparation of future waves of Covid (considering the recent Omicron variant of Covid).	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	60.00	0.000	0.000	No	District Rural Development Agency, Ranchi	CSR00020742

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
17	Distribution of mosquito nets in village areas.	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	2.00	0.000	0.000	Yes	NA	
18	Providing one number of Ambulance to RK Mission at TB Sanatorium, Tupudana, Ranchi.	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	18.38	18.375	0.000	No	Ramakrishna Mission Tuberculosis Sanatorium, Tupudana, Ranchi	CSR000006101
19	Support to 25 blind girl students for education and hostel facilities at Badgain, Ranchi.	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 year	1.20	1.200	0.000	No	Brajkishore Netraheen Balika Vidyalaya, Ranchi	CSR00017468
20	Contribution toward Swachh Bharat Kosh	Point I, Schedule VII: Promoting Healthcare	No	Pan India	Pan India	1 year	330.00	330.000	0.000	Yes	NA	
21	Azadi ka Amrut Mahotsava (AKAM)	Point IV, Schedule VII: Environmental Sustainability	Yes	Paschim Bardhaman	West Bengal	1 year	5.00	4.341	0.000	Yes	NA	
22	Swachhta Action Plan (CMPDIL HQ & all Ris)	Point I, Schedule VII: Promoting Sanitation	Yes	Paschim Bardhaman	West Bengal	1 year	2.00	1.930	0.000	Yes	NA	

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED
(A Subsidiary of Coal India Limited)



1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
23	Facilitating Nabarun F.P. School, Asansol with 4 No. of Computers and Computer tables and chairs at Santa 8 No. Basti, P.O. Santa, Asansol, Dist. Paschim Bardhaman West Bengal	Point II, Schedule VII: Promoting Education	Yes	Paschim Bardhaman	West Bengal	1 year	1.81	0.344	0.000	Yes	NA	
24	Facilitating Gopalpur Govt. Sponsored F.P. School, Asansol with 3 No. of Computers, Projector with screen, Computer tables and chairs at Gopalpur, Asansol, Dist. Paschim Bardhaman West Bengal	Point II, Schedule VII: Promoting Education	Yes	Paschim Bardhaman	West Bengal	1 year	1.73	0.614	0.000	Yes	NA	
25	Facilitating Boringpara F.P. School, Asansol with Projector with screen and sports equipments at P.O. Kalla (C.H.), Asansol, Dist. Paschim Bardhaman West Bengal	Point II, Schedule VII: Promoting Education	Yes	Paschim Bardhaman	West Bengal	1 year	0.41	0.379	0.000	Yes	NA	

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise (in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
26	Facilitating Bidhan Smriti Siksha Niketan High School, Asansol with ceiling fans and sports equipment at Vill & P.O. Damra, Asansol, Dist. Paschim Bardhaman West Bengal	Point II, Schedule VII: Promoting Education	Yes	Paschim Bardhaman	West Bengal	1 year	0.30	0.195	0.000	Yes	NA	
27	Facilitating overhead tank & water cooler cum purifier at Shitla Primary School, Asansol	Point I, Schedule VII: Drinking water	Yes	Paschim Bardhaman	West Bengal	1 year	1.06	0.663	0.000	Yes	NA	
28	Facilitating overhead tank & water cooler cum purifier at Sadhya Devi Free Primary School, Asansol	Point I, Schedule VII: Drinking water	Yes	Paschim Bardhaman	West Bengal	1 year	1.06	0.663	0.000	Yes	NA	
29	Installation of 50 solar street lights in Madhaiganj village, Paschim Bardhaman district, West Bengal	Point IV, Schedule VII: Environmental Sustainability	Yes	Paschim Bardhaman	West Bengal	1 year	10.32	8.925	0.000	Yes	NA	
30	Installation of 40 solar street lights in Govindpur village, Paschim Bardhaman district, West Bengal	Point IV, Schedule VII: Environmental Sustainability	Yes	Paschim Bardhaman	West Bengal	1 year	8.26	7.140	0.000	Yes	NA	

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1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
31	Facilitating Kulti High School (Morning Unit), Asansol with ceiling fans and lights at Kulti, Sub Div: Asansol, Dist: paschim Bardhaman West Bengal	Point II, Schedule VII: Promoting Education	Yes	Paschim Bardhaman	West Bengal	1 year	0.65	0.475	0.000	Yes	NA	
32	One number of medical camp at Asansol	Point I, Schedule VII: Promoting Healthcare	Yes	Paschim Bardhaman	West Bengal	1 year	2.93	2.826	0.000	Yes	NA	
33	Installation of 70 No. of Solar Street Lights in Gopinathpur Gram Panchayat, Egarkunr Block, Dhanbad District Jharkhand	Point IV, Schedule VII: Environmental Sustainability	Yes	Dhanbad	Jharkhand	1 year	14.46	12.495	0.000	Yes	NA	
34	Azadi ka Amrut Mahotsava (AKAM)	Point IV, Schedule VII: Environmental Sustainability	Yes	Dhanbad	Jharkhand	1 year	3.00	2.580	0.000	Yes	NA	
35	Swachhta Action Plan (CMPDIL HQ & all Ris)	Point I, Schedule VII: Promoting Sanitation	Yes	Dhanbad	Jharkhand	1 year	2.00	1.652	0.000	Yes	NA	

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise (in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
36	Assistance for 123 differentially-abled children through special education, occupational therapy, physiotherapy, speech and audio therapy and vocational training Jeevan Jyoti (A School for Special Children), Zilaparishad Building, Bekarbandh, Dhanbad amounting to Rs. 11.61 lakhs.	Point II, Schedule VII: Promoting Education	Yes	Dhanbad	Jharkhand	1 year	11.61	8.650	0.000	Yes	NA	
37	One number of medical camp	Point I, Schedule VII: Promoting Healthcare	Yes	Dhanbad	Jharkhand	1 year	2.93	1.996	0.000	Yes	NA	
38	Azadi ka Amrut Mahotsava (AKAM)	Point IV, Schedule VII: Environmental Sustainability	Yes	Ranchi	Jharkhand	1 year	7.00	7.003	0.000	Yes	NA	
39	Swachhta Action Plan (CMPDIL HQ & all RIs)	Point I, Schedule VII: Promoting Sanitation	Yes	Ranchi	Jharkhand	1 year	2.00	1.944	0.000	Yes	NA	
40	Installation of 9 nos Handpumps with platform & drainage arrangement at Badgaon Panchayat, Dist-Chatra Jharkhand	Point I, Schedule VII: Drinking water	Yes	Chatra	Jharkhand	1 year	9.00	5.385	0.000	Yes	NA	

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1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
41	Installation of 5 nos Handpumps with platform & drainage arrangement at Dhadhu (Purnapani), Balumath, Latehar Jharkhand	Point I, Schedule VII: Drinking water	Yes	Latehar	Jharkhand	1 year	5.00	2.991	0.000	Yes	NA	
42	Two number of medical camp	Point I, Schedule VII: Promoting Healthcare	Yes	Hazaribag	Jharkhand	1 year	5.48	5.011	0.000	Yes	NA	5.05361
43	Proposal for “Containment of COVID-19” in view of recent out-break of Pandemic COVID-19 (Omicron Variant)	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	5.00	0.328	0.000	Yes	NA	
44	200 LPM PSA Oxygen plant Installation with manifold pipeline at CHC- Burmu, Burmu Block, Ranchi	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	80.00	0.000	0.000	Yes	NA	
45	Distribution of medicated mosquito nets for prevention of vector borne diseases among villagers of command areas	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 year	2.00	0.000	0.000	Yes	NA	

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise (in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
46	Facilitation of school children in post-covid reopening of school through distribution of essential study kits in the command area of drilling camps to promote conducive environment for drilling.	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 year	0.45	0.450	0.000	Yes	NA	
47	Azadi ka Amrut Mahotsava (AKAM)	Point IV, Schedule VII: Environmental Sustainability	Yes	Nagpur	Maharashtra	1 year	7.00	5.830	0.000	Yes	NA	
48	Swachhta Action Plan (CMPDIL HQ & all RIs)	Point I, Schedule VII: Promoting Sanitation	Yes	Nagpur	Maharashtra	1 year	2.00	1.800	0.000	Yes	NA	



1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise (in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect	CSR Form1
49	Design, Installation and commissioning of Water Treatment Plant Capacity 1000 Liter per Hour each including installation of water vending machine including 5 kw solar plant and also Construction of shed required to accommodate the plant and its operation and maintenance warranty for Three years on turnkey basis at Paanwadal Village, Bhadrawati, Chandrapur.	Point I, Schedule VII: Drinking water	Yes	Chandrapur	State Maharashtra	1 year	14.77	11.290	0.000	Yes	NA	
50	Providing 320 KVA Diesel Generator set at Rashtra Sant Tukdoji Charitable Cancer Hospital, Nagpur	Point I, Schedule VII: Promoting Healthcare	Yes	Nagpur	Maharashtra	1 year	21.24	21.240	0.000	Yes	NA	

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise (in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
51	Providing Articles related to Covid 19: i. 25 Nos Bed ii. Sanitizer 500 Ltr iii. N 95 Mask 1000 Nos iv. Surgical Mask 1000 Nos v. Pulse Oxymeter 25 Nos vi. Multi Para Monitor Nos 10 Nos vii. Oxygen Concentrator - 10 Nos viii. PPE Kit 1000 Nos ix. Digital Thermometer 25 Nos x. Thermal Gun 05 Nos xi. Oxygen Flow Meter 10 Nos xii. Nebuliser 10 Nos at Govt Medical College & Hospital, Chandrapur, Maharashtra	Point I, Schedule VII: Promoting Healthcare	Yes	Chandrapur	Maharashtra	1 year	15.52	12.240	0.000	Yes	NA	

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
52	Providing Articles related to Covid 19 at Primary Health care Centre Durgapur, Chandrapur: i. 02 Nos Bed complete set with Mattresses, Pillow and bed sheet etc ii. Sanitizer 500 Ltr iii. N 95 Mask 500 Nos iv. Surgical Mask 1500 Nos v. Pulse Oxymeter 05 Nos vi. Oxygen Concentrator -02 Nos vii. PPE Kit 200 Nos ix. Thermometer 05 Nos x. Thermal Gun 03 Nos at Primary Health care Centre Durgapur, Chandrapur, Maharashtra	Point I, Schedule VII: Promoting Healthcare	Yes	Chandrapur	Maharashtra	1 year	2.38	1.610	0.000	Yes	NA	

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
53	Providing Articles to Sawarla Village to fight against covid 19 under supervision/Assistance of Primary Health Centre, Sawarla: i. 02 Nos Bed complete set with Mattresses,Pillow and bed sheet etc ii. Sanitizer 500 Ltr iii.N 95 Mask 500 Nos iv. Surgical Mask 1500 Nos v.Pulse Oxymeter 05 Nos vi. Oxygen Concentrator -02 Nos vii.PPE Kit 200 Nos ix. Thermometer 05 Nos x. Thermal Gun 03 Nos .	Point I, Schedule VII: Promoting Healthcare	Yes	Wani	Maharashtra	1 year	2.10	1.576	0.000	Yes	NA	



1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
54	Providing Articles to Kona Village to fight against covid 19 under supervision/Assistance of Primary Health Centre, Sawarla: i. Sanitizer- 60 Ltr ii. Mask N 95- 600 Nos iii. Surgical Mask 800 Nos iv. Pulse Oxymeter 03 Nos v. Oxygen concentrator machine 02 Nos vi. Bed with pillow, Mattresses, Bedshet etc 05 Nos. vii. PPE Kit 20 Nos viii. Thermometer 05 Nos ix. Thermal Gun 03 Nos x. Face Shield 10 NosKona Village, Yawatmaal, Wani, Maharashtra Mahrashtra	Point I, Schedule VII: Promoting Healthcare	Yes	Wani	Maharashtra	1 year	2.12	1.590	0.000	Yes	NA	

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
55	Providing Articles to Payali-Bhatali Village to fight against covid 19 under supervision/ Assistance of Primary Health Centre, Bhatali: i. Sanitizer- 50 Ltr ii. Mask N 95- 1000 Nos iii. Surgical Mask 1000 Nos iv. Pulse Oxymeter 05 Nos v. Oxygen concentrator machine 05 Nos vi. Bed with pillow, Mattresses, Bedshet etc 10 Nos Nos.vii.PPE Kit 10 Nos viii. Thermometer 05 Nos ix. Thermal Gun 05 Nos x. Sodium Hypochlorite 50 Ltr at Payali-Bhatali Village, Chandrapur, Maharashtra, Maharashtra	Point I, Schedule VII: Promoting Healthcare	Yes	Chandrapur	Maharashtra	1 year	4.93	3.840	0.000	Yes	NA	

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1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise(in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
56	Providing Medical Equipment to Thalassaemia Society of Central India: i. 1200 nos Leucocyte filter ii.1200 nos Vesofix iii.6000 nos Disposables (Distill Water/Syringes etc) iv. 1200 Nos BT Set	Point I, Schedule VII: Promoting Healthcare	Yes	Nagpur	Maharashtra	1 year	12.00	10.750	0.000	Yes	NA	
57	1. AMC of water filter plant at Boregaon. 2. AMC for 2 water plants at Shivapur (Bander) village and Janmi village, Warora, Chandrapur. 1st year of AMC	Point I, Schedule VII: Drinking water	Yes	Chandrapur	Maharashtra	1 year	2.62	1.190	0.000	Yes	NA	
58	One number of medical camp	Point I, Schedule VII: Promoting Healthcare	Yes	Nagpur	Maharashtra	1 year	2.93	2.740	0.000	Yes	NA	
59	Proposal for “Containment of COVID-19” in view of recent out-break of Pandemic COVID-19 (Omicron Variant)	Point I, Schedule VII: Promoting Healthcare	Yes	Nagpur	Maharashtra	1 year	5.00	3.800	0.000	Yes	NA	
60	Azadi ka Amrut Mahotsava (AKAM)	Point IV, Schedule VII: Environmental Sustainability	Yes	Bilaspur	Chattisgarh	1 year	6.00	5.992	0.000	Yes	NA	

1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise (in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect Name	CSR Form1
				District	State							
61	Swachhta Action Plan (CMPDIL HQ & all RIs)	Point I, Schedule VII: Promoting Sanitation	Yes	Bilaspur	Chattisgarh	1 year	2.00	1.877	0.000	Yes	NA	
62	One number of medical camp	Point I, Schedule VII: Promoting Healthcare	Yes	Bilaspur	Chattisgarh	1 year	2.93	2.713	0.000	Yes	NA	
63	Proposal for "Containment of COVID-19" in view of recent out-break of Pandemic COVID-19 (Omicron Variant)	Point I, Schedule VII: Promoting Healthcare	Yes	Bilaspur	Chattisgarh	1 year	5.00	5.000	0.000	Yes	NA	
64	Providing aids and appliances to persons with Disability	Point I, Schedule VII: Promoting Healthcare	Yes	Bilaspur	Chattisgarh	1 year	5.00	4.799	0.000	Yes	NA	
65	Azadi ka Amrut Mahotsava (AKAM)	Point IV, Schedule VII: Environmental Sustainability	Yes	Singrauli	Madhya Pradesh	1 year	3.00	0.948	0.000	Yes	NA	
66	Swachhta Action Plan (CMPDIL HQ & all RIs)	Point I, Schedule VII: Promoting Sanitation	Yes	Singrauli	Madhya Pradesh	1 year	2.00	0.194	0.000	Yes	NA	
67	Two number of medical camp	Point I, Schedule VII: Promoting Healthcare	Yes	Singrauli	Madhya Pradesh	1 year	5.86	5.461	0.000	Yes	NA	

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1	2	3	4	5		6	7	8	9	10	11	
Sl. No.	Name of the project	Item from the list of activities in Schedule VII in the Act	Local area (Yes/No)	Location of the project		Project duration	Amount outlay (budget) project or programs wise (in Rs. Lakh)	Amount spent in the FY (in Rs. Lakh)	Amount transferred to Unspent CSR Account for the project as per section 135(6) (Rs. In lakh)	Mode of Implementation Direct (Yes/No)	Mode of Implementation Indirect	CSR Form1
				District	State							
68	Azadi ka Amrut Mahotsava (AKAM)	Point IV, Schedule VII: Environmental Sustainability	Yes	Bhubaneswar	Odisha	1 year	6.00	3.393	0.000	Yes	NA	
69	Swachhta Action Plan (CMPDIL HQ & all Ris)	Point I, Schedule VII: Promoting Sanitation	Yes	Bhubaneswar	Odisha	1 year	2.00	1.624	0.000	Yes	NA	
70	One number of medical camp	Point I, Schedule VII: Promoting Healthcare	Yes	Bhubaneswar	Odisha	1 year	2.93	2.930	0.000	Yes	NA	
71	(Spill over) Construction of IPD Block for indoor patients at CHC Kosala	Point I, Schedule VII: Promoting Healthcare	Yes	Angul	Odisha	1 year	3.50	3.356	0.000	Yes	NA	
72	Admin cost	NA	Yes	Ranchi	Jharkhand	1 year	4.00	3.020	0.000	Yes	NA	
73	Admin cost	NA	Yes	Nagpur	Maharashtra	1 year	5.00	1.850	0.000	Yes	NA	
		Total					1064.05	685.890				

(c) Details of CSR amount spent against other than ongoing projects for the financial year 2021)

(1) Sl.No.	(2) Name of the project	(3) Item from the list of activities in schedule VII to the Act.	(4) Local area (Yes/No).	(5) Location of the project.		(6) Amount spent for the project (in Rs).	(7) Mode implementation Direct (Yes/No).	(8) Mode of implementation through implementing agency.	
				State.	District.			Name	CSR registration number.
1.	Nil	NA	NA	NA	NA	NA	NA	NA	NA
	TOTAL								

(d) Amount spent in Administrative Overheads:

Rs. 4.870 lakhs has been booked under Administrative Overheads.

(e) Amount spent in Impact Assessment, if applicable

No amount has been spent in Impact Assessment.

(f) Total amount spent for the Financial Year

(8b+8c+8d+8e)

Rs. 685.89 lakhs only.

(g) Excess amount for set off, if any

Sl. No.	Particular	Amount (in Rs.)
(I)	Two percent of average net profit of the company as per section 135(5)	6,60,62,000.00
(II)	Total amount spent for the Financial year	6,85,89,000.00
(III)	Excess amount spent for the financial year [(ii)-(i)]	25,27,000.00
(IV)	Surplus arising out of the CSR projects or programmes or activities of the previous financial year, if any	Nil
(V)	Amount available for set off succeeding financial years [(iii)-(iv)]	25,27,000.00

9. (a) Detail of Unspent CSR amount for the preceding three financial years:

Sl. No.	Preceding Financial Year	Amount transferred to Unspent CSR Account under section 135 (6) (₹ in Rs.)	Amount spent in the reporting financial year (₹ in Rs.)	Amount transferred to any fund specified under Schedule VII as per section 135(6), if any.			Amount remaining to be spent in succeeding financial year. (in Rs.)
				Name of the Fund	Amount (₹ in Rs.)	Date of transfer	
1.	2020-21	Nil	NA	NA	NA	NA	NA
2.	2019-20	Nil	NA	NA	NA	NA	NA
3.	2018-19	Nil	NA	NA	NA	NA	NA
	TOTAL	Nil	NA	NA	NA	NA	NA

(b) Details of CSR amount spent in the financial year for ongoing projects of the preceding financial year(s):

No Such Projects

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Sl. No.	Project ID	Name of the project	Financial Year in which the project was commenced.	Project duration.	Total amount allocated for the project (in Rs.)	Amount spent on the project in the reporting Financial year (in Rs.)	Cumulative amount spent at the end of reporting Financial Year. (in Rs.)	Status of the project Completed/ Ongoing.
	NIL	NIL	NA	NA	NA	NA	NA	NA

10. **In case of creation or acquisition of capital asset, furnish the details relating to the asset so created or acquired through CSR spent in the financial year (asset-wise details).**

No Such asset so created or acquired through CSR spent in the financial year 2021-22.

- (a) **Date of creation or acquisition of the capital asset(s).**

Not Applicable.

- (b) **Amount of CSR spent for creation or acquisition of capital asset.**

Not Applicable.

Details of the entry or public authority or beneficiary under whose Name such capital asset is registered, their address etc.

Not Applicable.

11. **Specify the reason(s), if the company has failed to spend two percent of the average net profit as per section 135(5).**

CMPDIL has spent Rs. 685.89 lakhs in the financial year 2021-22 which is more than the statutory requirement of two percent of the average net profit (i.e. Rs. 660.62 Lakhs).

This is to certify that the implementation and monitoring of CSR activities is in compliance of CSR activities and Policy of CMPDIL.

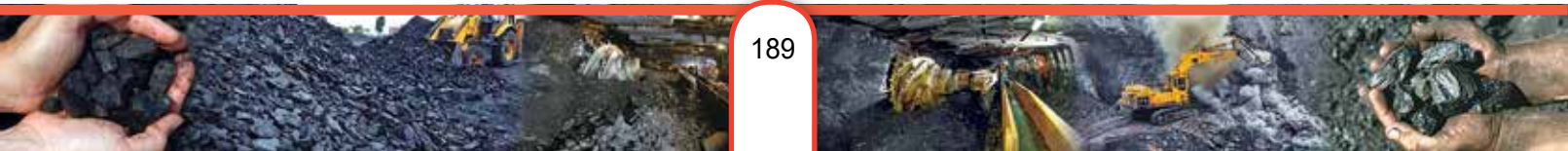
Sd/-
(Manoj Kumar)
Chairman-cum-Managing
Director

Sd/-
(Pramod Singh Chauhan)
Chairman CSR
Committee

Sd/-
(R.K. Mahapatro)
Nodal Officer (CSR)



ANNUAL ACCOUNTS 2021-22



Central Mine Planning and Design Institute Limited

BALANCE SHEET as at 31.03.2022

(₹ in Crore)

	Note No.	As at 31.03.2022	As at 31.03.2021
ASSETS			
Non-Current Assets :			
(a) Property, Plant & Equipments	3	194.45	182.64
(b) Capital Work in Progress	4	36.66	37.14
(c) Exploration and Evaluation Assets	5	-	-
(d) Intangible Assets	6.1	10.40	5.37
(e) Intangible Assets under Development	6.2	2.30	-
(f) Financial Assets :			
(i) Investments	7	-	-
(ii) Loans	8	0.08	-
(iii) Other Financial Assets	9	5.45	1.06
(g) Deferred Tax Assets (net)		76.64	84.52
(h) Other non-current assets	10	2.95	1.73
Total Non-Current Assets (A)		328.93	312.46
Current Assets :			
(a) Inventories	12	13.07	10.82
(b) Financial Assets :			
(i) Investments	7	-	-
(ii) Trade Receivables	13	815.90	892.33
(iii) Cash & Cash equivalents	14	160.97	70.82
(iv) Other Bank Balances	15	40.14	122.14
(v) Loans	8	-	-
(vi) Other Financial Assets	9	110.41	121.18
(c) Current Tax Assets (Net)		58.54	25.32
(d) Other Current Assets	11	174.53	171.82
Total Current Assets (B)		1,373.56	1,414.43
Total Assets (A+B)		1,702.49	1,726.89
EQUITY AND LIABILITIES			
Equity :			
(a) Equity Share Capital	16	142.80	142.80
(b) Other Equity	17	871.72	659.45
Equity attributable to equity holders of the company		1014.52	802.25
Non-Controlling Interests		-	-
Total Equity (A)		1014.52	802.25




BALANCE SHEET as at 31.03.2022

(₹ in Crore)


	Note No.	As at 31.03.22	As at 31.03.21
Liabilities			
Non-Current Liabilities :			
(a) Financial Liabilities :			
(i) Borrowings	18	-	-
(ii) Lease Liabilities		1.02	1.11
(iii) Trade Payables (if any)		-	-
(iv) Other Financial Liabilities	20	78.49	88.77
(b) Provisions	21	88.76	208.31
(c) Deferred Tax Liabilities (net)		9.67	8.66
(d) Other Non-Current Liabilities	22	-	-
Total Non-Current Liabilities (B)		177.94	306.85
Current Liabilities :			
(a) Financial Liabilities :			
(i) Borrowings	18	-	-
(ii) Lease Liabilities		0.29	0.23
(iii) Trade payables :	19		
Total outstanding dues of micro, small and medium enterprises		-	0.42
Total outstanding dues of Creditors other than micro and small enterprises		150.94	209.24
(iv) Other Financial Liabilities	20	72.93	77.15
(b) Other Current Liabilities	23	140.99	195.69
(c) Provisions	21	144.88	135.06
(d) Current Tax Liabilities (net)			
Total Current Liabilities (C)		510.03	617.79
Total Equity and Liabilities (A+B+C)		1702.49	1726.89

The Accompanying Notes & Note 1, 2 & 38 form an integral part of Financial Statements.


(A. Mundhra)
Company Secretary



(P. K. Prasad)
General Manager (F)


(S. K. Gomasta)
Director
DIN-08714820


(Manoj Kumar)
Chairman-Cum-
Managing Director
DIN-09225497

In terms of our report of even date attached

For Lodha Patel Wadhwa & Co.
Chartered Accountants
Firm Registration No.006271C


(CA Sanjay Kumar Wadhwa)
Partner
Membership No. 074749

Date: 10th May, 2022

Place: Ranchi

Central Mine Planning and Design Institute Limited

STATEMENT OF PROFIT & LOSS For the Year Ended 31st March, 2022

(₹ in Crore)

	Note No.	For the Year ended 31.03.2022	For the Year ended 31.03.2021
Revenue from Operations			
A Sales (Net)	24	1208.43	1488.60
B Other Operating Revenue (Net)		-	-
(I) Revenue from Operations (A+B)		1208.43	1488.60
(II) Other Income	25	29.83	20.08
(III) Total Income (I+II)		1238.26	1508.68
(IV) EXPENSES			
Cost of Materials Consumed	26	33.62	21.99
Purchases of Stock-in-Trade			
Changes in inventories of finished goods/work in progress and Stock in trade	27	-	-
Excise Duty			
Employee Benefits Expense	28	570.82	551.83
Power & Fuel		2.58	2.90
Corporate Social Responsibility Expense	29	6.86	4.66
Repairs	30	21.26	25.34
Contractual Expense	31	145.87	406.94
Finance Costs	32	0.07	0.16
Depreciation/Amortization/ Impairment expense		22.99	20.33
Provisions	33	-	1.45
Write off	34	-	0.05
Other Expenses	35	68.15	58.54
Total Expenses (IV)		872.22	1094.19
(V) Profit before exceptional items and Tax (III-IV)		366.04	414.49
(VI) Exceptional Items		-	-
(VII) Profit before Tax (V-VI)		366.04	414.49
(VIII) Tax expense	36	83.92	97.53
(IX) Profit for the period from continuing operations (VII-VIII)		282.12	316.96
(X) Profit/(Loss) from discontinued operations		-	-
(XI) Tax exp of discontinued operations		-	-
(XII) Profit/(Loss) from discontinued operations (after Tax) (X-XI)		-	-
(XIII) Share in JV's/Associate's profit/(loss)		-	-
(XIV) Profit for the Period (IX+XII+XIII)		282.12	316.96
Other Comprehensive Income			
A (i) Items that will not be reclassified to profit or loss	37	26.65	(9.51)
(ii) Income tax relating to items that will not be reclassified to profit or loss		6.71	(2.39)

STATEMENT OF PROFIT & LOSS For the Year Ended 31st March, 2022

(₹ in Crore)

	Note No.	For the Year ended 31.03.2022	For the Year ended 31.03.2021
B (i) Items that will be reclassified to profit or loss			
(ii) Income tax relating to items that will be reclassified to profit or loss		-	-
(XV) Total Other Comprehensive Income		19.94	(7.12)
(XVI) Total Comprehensive Income for the period (XIV+XV) (Comprising Profit (Loss) and Other Comprehensive Income for the period)		302.06	309.84
Profit attributable to:			
Owners of the company		282.12	316.96
Non-controlling interest			
		282.12	316.96
Other Comprehensive Income attributable to:			
Owners of the company		19.94	(7.12)
Non-controlling interest			
		19.94	(7.12)
Total Comprehensive Income attributable to:			
Owners of the company		302.06	309.84
Non-controlling interest			
		302.06	309.84
(XVII) Earnings per equity share (for continuing operation):			
(1) Basic		1,975.63	2,219.61
(2) Diluted		1,975.63	2,219.61

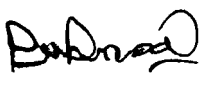
STATEMENT OF PROFIT & LOSS For the Year Ended 31st March, 2022

(₹ in Crore)


Note No.	For the Year ended 31.03.2022	For the Year ended 31.03.2021
(XVIII) Earnings per equity share (for discontinued operation):		
(1) Basic	-	-
(2) Diluted	-	-
(XIX) Earnings per equity share (for discontinued & continuing operation):		
(1) Basic	1,975.63	2,219.61
(2) Diluted	1,975.63	2,219.61

The Accompanying Notes form an integral part of Financial Statements.


(A. Mundhra)
Company Secretary



(P. K. Prasad)
General Manager (F)


(S. K. Gomasta)
Director
DIN-08714820


(Manoj Kumar)
Chairman-Cum-
Managing Director
DIN-09225497

In terms of our report of even date attached

For Lodha Patel Wadhwa & Co.
Chartered Accountants
Firm Registration No.006271C


(CA Sanjay Kumar Wadhwa)
Partner
Membership No. 074749

Date: 10th May, 2022

Place: Ranchi



Central Mine Planning and Design Institute Limited

CASH FLOW STATEMENT (INDIRECT METHOD) For the Year Ended 31st March, 2022

(₹ in Crore)


	For the Year ended 31.03.2022	For the Year ended 31.03.2021
A. CASH FLOWS FROM OPERATING ACTIVITIES:		
Profit before tax	366.04	414.49
Adjustment for:		
Depreciation & Impairment of Fixed Assets	22.99	20.33
Interest from Bank Deposits	(4.13)	(12.16)
Finance cost	0.07	0.16
Interest / Dividend from investments	-	-
Profit / Loss on sale of Fixed Assets	-	(0.01)
Other non-operating Income	(24.57)	(9.90)
Liability write back during the period	(1.13)	(0.03)
Advance Stripping Activity Adjustment	-	-
Operating profit before Current / Non Current Assets and Liabilities Adjustments for :	359.27	412.88
Trade Receivable	76.43	(342.12)
Inventories	(2.25)	1.68
Short/Long term Loans/Advances & Other Current Assets	59.03	(55.19)
Short/Long term Liabilities and Provisions	(210.02)	160.63
Cash generated from operations	282.46	177.88
Income Tax paid / refund	(90.63)	(95.14)
Interest paid	(0.07)	(0.16)
Net Cash Flow from Operating Activities (A)	191.76	82.58
B. CASH FLOWS FROM INVESTING ACTIVITIES		
Purchase of Fixed Assets	(41.65)	(39.85)
Proceeds from sale of Assets	-	0.01
Other Long Term Loans & Advances (Capital Advances)	-	-
Interest received on Fixed Deposit / Loan to Subsidiary	4.13	12.16
Other non-operating Income	25.70	9.93
Investment in Bank Deposit	-	-
Change in investments	-	-
Investment in joint venture	-	-
Interest pertaining to Investing Activities	-	-
Interest / Dividend from investments	-	-
Net cash flow from Investing Activities (B)	(11.82)	(17.75)

C. CASH FLOWS FROM FINANCING ACTIVITIES


Proceed from short term Borrowings/Govt. Grant	1.12	(0.79)
Repayment of Borrowings	-	-
Interest & Finance cost pertaining to Financing Activities	-	-
Receipt of Shifting & Rehabilitation Fund	-	-
Dividend & Dividend Tax	(90.91)	(95.68)
Buyback of Equity Share Capital	-	-
Net cash used in Financing Activities (C)	(89.79)	(96.47)
Net increase/ decrease in Cash & Bank Balances (A+B+C)	90.15	(31.64)
Cash & cash equivalents as at the beginning of the year (Refer Note 14 for components of cash & cash equivalents)	70.82	102.46
Cash & cash equivalents as at the end of the year (Refer Note 14 for component of cash & cash equivalents)	160.97	70.82

(All figures in bracket represent outflow)


(A. Mundhra)
Company Secretary


(P. K. Prasad)
General Manager (F)


(S. K. Gomasta)
Director
DIN-08714820


(Manoj Kumar)
Chairman-Cum-
Managing Director
DIN-09225497

In terms of our report of even date attached

For Lodha Patel Wadhwa & Co.
Chartered Accountants
Firm Registration No.006271C


(CA Sanjay Kumar Wadhwa)
Partner
Membership No. 074749

Date: 10th May, 2022

Place: Ranchi

Central Mine Planning and Design Institute Limited

STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 31.03.2022

A. EQUITY SHARE CAPITAL

As at 31.03.2022

(₹ in Crore)

Particulars	Balance as at 01.04.2021	Changes In Equity Share Capital Due to Prior Period errors	Restated Balance as at 01.04.2021	Changes in Equity Share Capital During The Year	Balance as at 31.03.2022
14,28,000 Equity Shares of ₹1000/- each	142.8	-	142.80	-	142.80
As at 31.03.2021					
Particulars	Balance as at 01.04.2020	Changes In Equity Share Capital Due to Prior Period errors	Restated Balance as at 01.04.2020	Changes in Equity Share Capital During The Year	Balance as at 31.03.2021
14,28,000 Equity Shares of ₹1000/- each	38.08	-	38.08	104.72	142.80

B. OTHER EQUITY

As at 31.03.2022

(₹ in Crore)

	Other Reserves		General Reserve	Retained Earnings	Remeasurement of Defined Benefits Plans (net of Tax) - (OCI)	Total
	Capital Redemption reserve	Capital reserve				
Balance as at 01.04.2021	-	17.78	15.85	607.14	18.68	659.45
Changes in accounting policy Prior period errors	-	-	-	-	-	-
Restated balance as at 01.04.2021	-	17.78	15.85	607.14	18.68	659.45
Additions during the year		2.20	14.10			16.30
Adjustments during the year		(1.08)	-	(14.10)	-	(15.18)
Interim Dividend		-	-	(60.59)	-	(60.59)
Final Dividend				(30.32)		(30.32)
Profit for the year				282.12	19.94	302.06
Issue of Bonus shares						

Central Mine Planning and Design Institute Limited

STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 31.03.2022 (contd.)

B. OTHER EQUITY (contd.)

As at 31.03.2021

Balance as at 31.02.2022	-	18.90	29.95	784.25	38.62	871.72
	Other Reserves		General Reserve	Retained Earnings	Remeasurement of Defined Benefits Plans (net of Tax) - (OCI)	Total
	Capital Redemption reserve	Capital reserve				
Changes in accounting policy or prior period errors	-	-	-	-	-	-
Restated balance as at 01.04.2020	-	18.57	22.37	484.06	25.80	550.80
Balance as at 01.04.201820	-	18.57	22.37	484.06	25.80	550.80
Total Comprehensive Profit	-	-	-	316.96	(7.12)	309.84
Interim Dividend	-	-	-	(64.77)	-	(64.77)
Final Dividend	-	-	-	(30.91)	-	(30.91)
Additions during the year	-	0.19	15.85	-	-	16.04
Adjustments during the year	-	(0.98)	-	-	-	(0.98)
Transfer to / from Other reserves	-	-	-	(15.85)	-	(15.85)
Issue of Bonus shares	-	-	(22.37)	(82.35)	-	(104.72)
Balance as at 31.03.2021	-	17.78	15.85	607.14	18.68	659.45

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 3 : PROPERTY, PLANT AND EQUIPMENTS

(₹ in Crore)

	Freehold Land	Other Land	Land Reclamation/ Site Restoration Costs	Building (including water supply, roads and culverts)	Plant and Equipments	Telecommunication	Railway Sidings	Furniture and Fixtures	Office Equipments	Vehicles	Aircraft	Other Mining Infrastructure	Surveyed Off Assets	Right of use	Total
Gross Carrying Amount:															
As at 1 st April 2020	1.15	2.06	-	67.97	152.15	0.46	-	13.11	3.24	11.92	-	-	0.72	-	252.78
Additions	-	0.88	-	1.18	20.14	0.03	-	0.93	0.12	1.04	-	-	0.04	-	24.36
Deletions/Adjustments	-	-	-	-	2.88	-	-	(0.01)	(0.01)	(1.00)	-	-	(0.01)	-	1.85
As at 31st March 2021	1.15	2.94	-	69.15	175.17	0.49	-	14.03	3.35	11.96	-	-	0.75	-	278.99
As at 1 st April 2021	1.15	2.94	-	69.15	175.17	0.49	-	14.03	3.35	11.96	-	-	0.75	-	278.99
Additions	-	-	-	1.09	28.47	0.01	-	1.79	0.05	-	-	-	-	-	31.41
Deletions/Adjustments	-	-	-	0.09	(5.86)	(0.07)	-	3.69	0.13	(0.11)	-	-	0.02	-	(2.11)
As at 31st March 2022	1.15	2.94	-	70.33	197.78	0.43	-	19.51	3.53	11.85	-	-	0.77	-	308.29
Accumulated Depreciation and Impairment :															
As at 1 st April 2020	-	0.19	-	7.52	58.16	0.15	-	5.35	1.37	5.92	-	-	-	-	78.66
Charge for the year	-	0.16	-	1.77	13.96	0.06	-	1.31	0.50	1.16	-	-	-	-	18.92
Impairment	-	-	-	-	(1.15)	-	-	(0.02)	(0.01)	(0.05)	-	-	-	-	(1.23)
Deletions/Adjustments	-	-	-	-	9.29	0.21	-	6.64	1.86	7.03	-	-	-	-	96.35
As at 31st March 2021	-	0.35	-	9.29	70.97	0.21	-	6.64	1.86	7.03	-	-	-	-	96.35
As at 1 st April 2021	-	0.35	-	9.29	70.97	0.21	-	6.64	1.86	7.03	-	-	-	-	96.35
Charge for the year	-	0.20	-	1.74	16.13	0.06	-	1.52	0.43	1.24	-	-	-	-	21.32
Impairment	-	-	-	0.09	(4.95)	(0.06)	-	1.17	0.05	(0.13)	-	-	-	-	(3.83)
Deletions/Adjustments	-	-	-	11.12	82.15	0.21	-	9.33	2.34	8.14	-	-	-	-	113.84
As at 31st March 2022	-	0.55	-	11.12	82.15	0.21	-	9.33	2.34	8.14	-	-	-	-	113.84
Net Carrying Amount :															
As at 31 st March 2021	1.15	2.39	-	59.21	115.63	0.22	-	10.18	1.19	3.71	-	-	0.77	-	194.45
As at 31 st March 2022	1.15	2.59	-	59.86	104.20	0.28	-	7.39	1.49	4.93	-	-	0.75	-	182.64

Note :

1. Plant and Machinery above include Plant and machineries including Stand by Equipment and stores and spares which satisfies criteria for recognition as PPE but not yet issued from stores.
2. Depreciation has been provided as per Company's accounting policy. (Refer to note No 2).
3. Other Land includes Right of use Asset amounting to Rs 1.51 cr and accumulated amortization on the same is Rs 0.41 crores upto 31.03.2022.

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 4 : CAPITAL WIP

(₹ in Crore)

	Building (including water supply, roads and culverts)	Plant and Equipments	Railway Sidings	Other Mining infrastructure/ Development	Others (to be specified in note)	Total
Gross Carrying Amount :						
As at 1 st April 2020	6.96	16.17	-	-	-	23.13
Additions	14.03	1.84	-	-	-	15.87
Capitalisation/ Deletions	(0.98)	(0.88)	-	-	-	(1.86)
As at 31st March 2021	20.01	17.13	-	-	-	37.14
As at 1 st April 2021	20.01	17.13	-	-	-	37.14
Additions	4.90	0.06	-	-	-	4.96
Capitalisation/ Deletions	(0.48)	(4.96)	-	-	-	(5.44)
As at 31st March 2022	24.43	12.23	-	-	-	36.66
Accumulated Depreciation and Impairment						-
As at 1 st April 2020	-	-	-	-	-	-
Charge for the year	-	-	-	-	-	-
Impairment	-	-	-	-	-	-
Deletions/Adjustments	-	-	-	-	-	-
As at 31st March 2021	-	-	-	-	-	-
As at 1 st April 2021	-	-	-	-	-	-
Charge for the year	-	-	-	-	-	-
Impairment	-	-	-	-	-	-
Deletions/Adjustments	-	-	-	-	-	-
As at 31st March 2022	-	-	-	-	-	-
Net Carrying Amount						-
As at 31st March 2022	24.43	12.23	-	-	-	36.66
As at 31st March 2021	20.01	17.13	-	-	-	37.14

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 4 : CAPITAL WIP (contd.)

Capital - Work-in Progress (CWIP)

(a) Ageing schedule for Capital-work-in Progress:

(₹ in Crore)

Amount in CWIP for a period of					
	Less than 1 years	1-2 years	2-3 years	More than 3 years	Total
Projects in progress:					
Construction of Badminton court at CMPDIL	0.40				0.40
Construction of Civil and Allied work	0.23				0.23
Building Lakhanpur Residential building for Gopalpur camp of RI-7	0.10	0.03		0.02	0.15
Office Building RI-4	0.07	-	-	23.21	23.28
CMPDIL RI-7 Office building	0.15	0.22			0.37
Total AUC Building	0.95	0.25	-	23.23	24.43
Plant and Equipments	0.03				0.03
Capsule Lift by Deepak Kumar singh	0.03				0.03
DECORATIVE LIGHTING	0.06				0.06
Total AUC Plant & Equipment					
Projects temporarily suspended:					
Plant and Equipments					
CIL R&D WIP				12.17	12.17
Total	1.01	0.25	-	35.40	36.66

(b) Overdue capital-work-in progress

To be completed in				
	Less than 1 year	1-2 years	2-3 years	More them 3 years
Projects in progress:				
Building (including water supply, roads and culverts)				
Plant and Equipments				
Railway Sidings				
Total				

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 5 : EXPLORATION AND EVALUATION ASSETS

(₹ in Crore)

	Exploration and Evaluation Costs
Gross Carrying Amount:	
As at 1 st April 2020	-
Additions	-
Deletions/Adjustments	-
As at 31st March 2021	-
As at 1 st April 2021	-
Additions	-
Deletions/Adjustments	-
As at 31st March 2022	-
Accumulated Provision and Impairment	
As at 1 st April 2020	-
Charge for the year	-
Impairment	-
Deletions/Adjustments	-
As at 31st March 2021	-
As at 1 st April 2021	-
Charge for the year	-
Impairment	-
Deletions/Adjustments	-
As at 31st March 2022	-
Net Carrying Amount	
As at 31st March 2022	-
As at 31st March 2021	-

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 6.1 : INTANGIBLE ASSETS

(₹ in Crore)

	Computer Software	Others (specify in note)	Total
Gross Carrying Amount:			
As at 1 st April 2020	18.34	-	18.34
Additions	4.49	-	4.49
Deletions/Adjustments	(5.28)	-	(5.28)
As at 31st March 2021	17.55	-	17.55
As at 1 st April 2021	17.55	-	17.55
Additions	8.02	-	8.02
Deletions/Adjustments	0.14	-	0.14
As at 31st March 2022	25.71	-	25.71
Accumulated Amortisation and Impairment			
As at 1 st April 2020	9.96	-	9.96
Charge for the year	2.41	-	2.41
Impairment	-	-	-
Deletions/Adjustments	(0.19)	-	(0.19)
As at 31st March 2021	12.18	-	12.18
As at 1 st April 2021	12.18	-	12.18
Charge for the year.	3.13	-	3.13
Impairment	-	-	-
Deletions/Adjustments	-	-	-
As at 31st March 2022	15.31	-	15.31
Net Carrying Amount :			
As at 31st March 2022	10.40	-	10.40
As at 31st March 2021	5.37	-	5.37

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 6.2: INTANGIBLE ASSETS UNDER DEVELOPMENT

(₹ in Crore)

	ERP under Development
Gross Carrying Amount:	
As at 1 st April 2020	-
Additions	-
Deletions/Adjustments	-
As at 31st March 2021	
As at 1 st April 2021	-
Additions	2.30
Deletions/Adjustments	-
As at 31st March 2022	2.30
Accumulated Impairment :	
As at 1 st April 2020	-
Charge for the year	-
Impairment	-
Deletions/Adjustments	-
As at 31st March 2021	
As at 1 st April 2021	-
Charge for the year.	-
Impairment	-
Deletions/Adjustments	-
As at 31st March 2022	
Net Carrying Amount :	-
As at 31st March 2022	2.30
As at 31st March 2021	-

Intangible Assets under Development

(a) Ageing schedule for intangible assets under development

	Amount in intangible assets under development for a period of				
	Less than 1 year	1-2 years	2-3 years	More than 3 years	Total
Projects in Progress :					
ERP under development	2.30		-		2.30
Projects temporarily suspended :					
Total	2.30		-		2.30

(b) Overdue Intangible Assets under development

	To be completed in			
	Less than 1 years	1-2 years	2-3 years	More than 3 years
Total	-	-	-	-



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 7 : INVESTMENTS

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
Non Current		
Investment in Shares	-	-
Equity Shares in Joint Venture Companies	-	-
Other Investments	-	-
In Secured Bonds	-	-
In Co-operative Shares	-	-
Total	-	-
Aggregate amount of unquoted investments:	-	-
Aggregate amount of quoted investments:	-	-
Market value of quoted investments:	-	-
Aggregate amount of impairment in value of investments:	-	-

NOTE - 7 (contd.)

INVESTMENTS

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
Current		
Mutual Fund Investment		
UTI Mutual Fund	-	-
UTI Liquid Cash Plan	-	-
LIC Mutual Fund	-	-
SBI Mutual Fund	-	-
Canara Robeco Mutual Fund	-	-
Union KBC Mutual Fund	-	-
BOI AXA Mutual Fund	-	-
Total	-	-
Aggregate of Quoted Investment:	-	-
Aggregate of unquoted investments:	-	-
Market value of Quoted Investment:	-	-
Aggregate amount of impairment in value of investments:	-	-

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 8 : LOANS

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
Other Loans		
- Secured, considered good	0.08	-
- Unsecured, considered good	-	-
- Have significant increase in credit risk	-	-
- Credit impaired	-	-
	0.08	-
Less: Allowance for doubtful loans	-	-
	0.08	-
Total	0.08	-
Current		
Other Loans		
- Secured, considered good	-	-
- Unsecured, Considered good	-	-
- Have significant increase in credit risk	-	-
- Credit impaired	-	-
- Doubtful	-	-
	-	-
Less: Allowance for doubtful loans	-	-
	-	-
Total	-	-



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 9 : OTHER FINANCIAL ASSETS

(₹ in Crore)

	<u>As at 31.03.2022</u>	<u>As at 31.03.2021</u>
Non Current		
Bank Deposits with more than 12 months maturity	-	-
Deposits with bank under :		
- Mine Closure Plan	-	-
- Shifting & Rehabilitation Fund scheme	-	-
Security Deposit	5.49	1.10
Less : Allowance for doubtful Security deposits	0.04	0.04
Other Deposit and Receivables *	-	-
Less : Allowance for doubtful deposits	-	-
	<u>5.45</u>	<u>1.06</u>
TOTAL	<u>5.45</u>	<u>1.06</u>
Current		
Current Account Balance with CIL	53.63	55.63
Balance with IICM	-	-
Less: Provision for Doubtful Advances	-	-
	<u> </u>	<u> </u>
Interest accrued	0.94	1.92
Claims & other receivables	55.84	63.63
Less : Allowance for doubtful claims	-	-
	<u>55.84</u>	<u>63.63</u>
TOTAL	<u>110.41</u>	<u>121.18</u>

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 10 : OTHER NON-CURRENT ASSETS

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
(i) Capital Advances	2.95	1.60
Less : Allowance for doubtful advances	-	-
	2.95	1.60
(ii) Advances other than capital advances		
(a) Others Deposits and Advance	-	0.13
Less : Allowance for doubtful advances	-	-
	-	0.13
(b) Advances to related parties	-	-
Total	2.95	1.73

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE -11 : OTHER CURRENT ASSETS

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
(a) Advance payment of statutory dues	0.04	0.05
Less : Allowance for doubtful Statutory dues	-	-
	0.04	0.05
(b) Advance to Related Parties	-	-
(c) Other Advances and Deposits *	146.41	134.32
Less : Allowance for doubtful other deposits and advances	0.25	0.25
	146.16	134.07
(d) Input Tax Credit Receivable	28.33	37.70
	28.33	-
	28.33	37.70
Total	174.53	171.82

Note:

1-(e) Other Advances and Deposits *

	31.03.2022	31.03.2021
ADVANCE (XA)	0.28	0.74
T.A.	0.82	0.73
MEDICAL ADVANCE	0.24	0.38
ADVANCE CIL SURVEY OF INDIA	77.37	77.37
ADVANCE CIL CIMFR LAB	21.18	21.18
C B M PROJECT	0.11	0.11
INCOME TAX UNDER PROTEST **	38.31	27.15
OTHERS	8.10	6.66
Total	146.41	134.32

** Income tax paid unde protest is Rs 38.31 crs.Out of this Rs 0.95 cr relates to A.Y. 2012-13, Rs 23.73 cr relates to A.Y 2017-18, Rs 0.64 cr relates to A.Y 2016-17, Rs 0.68 cr. relates to A.Y. 2014-15, Rs 0.58 cr relates to A.Y 2010-11,Rs 0.12 crore relates to A.Y 2016-17, Rs 0.45 relates to A.Y. 2017-18, Rs 11.16 cr relates to A.Y. 2018-19.

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 12 : INVENTORIES

(₹ in Crore)

	<u>As at 31.03.2022</u>	<u>As at 31.03.2021</u>
(a) Stock of Coal		
Coal under Development	-	-
Stock of Coal (Net)	-	-
(b) Stock of Stores & Spares (net)	13.07	10.82
Add: Stores-in-transit	-	-
Net Stock of Stores & Spares	13.07	10.82
(c) Stock of Medicine at Central Hospital	-	-
(d) Workshop Jobs and Press jobs		
	13.07	10.82

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE- 13 : TRADE RECEIVABLES

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
Current		
Trade receivables		
- secured, considered good	-	-
- unsecured, considered good	815.90	892.33
Have significant increase in credit risk		
Credit impaired	3.35	4.48
	819.25	896.81
Less : Allowance for bad & doubtful debts	3.35	4.48
Total	815.90	892.33

(₹ in Crore)

Trade Receivables ageing schedule	Outstanding for following periods from transaction date					Total
Particulars	Less than 6 months	6 months 1 year	1-2 years	2-3 years	More than 3 years	
(i) Undisputed Trade receivables – considered good	555.08	113.28	69.89	23.23	57.77	819.25
(ii) Undisputed Trade Receivables - which have significant increase in credit risk						
(iii) Undisputed Trade Receivables – credit impaired						
(iv) Disputed Trade Receivables– considered good						
(v) Disputed Trade Receivables – which have significant increase in credit risk						
(iv) Disputed Trade Receivables – credit impaired						
Total						
Unbilled dues						
Allowance for bad & doubtful debts					3.35	3.35
Expected credit losses (Loss allowance provision) - %						0.41%

Trade Receivables includes dues from CIL and Subsidiaries within group ₹ 586.10 cr. (Previous Year ₹ 568.11 cr.) and allowances recognised thereon Nil (Previous Year Nil). Dues from outside group include ₹ 232.89 cr. (Previous Year ₹ 328.70 cr.) and allowances recognised thereon ₹ 3.35 cr. (Previous Year ₹ 4.48 cr.).

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 14 : CASH AND CASH EQUIVALENTS

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
(a) Balances with Banks		
- in Deposit Accounts		
- in Current Accounts		
Interest Bearing (CLTD)	146.00	60.10
Non Interest Bearing	14.94	10.69
- in Cash Credit Accounts	-	-
(b) Bank Balances outside India	-	-
(c) Cheques, Drafts and Stamps in hand	0.01	0.01
(d) Cash on hand	0.02	0.02
(e) Cash on hand outside India	-	-
(f) Imprest account	-	-
Total Cash and Cash Equivalents	160.97	70.82
(g) Bank Overdraft	-	-
Total Cash and Cash Equivalents(net of Bank Overdraft)	160.97	70.82

NOTE - 15 : OTHER BANK BALANCES

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
Balances with Banks		
- Deposit accounts	40.14	122.14
- CSR fund for Ongoing projects	-	-
- Mine Closure Plan	-	-
- Shifting and Rehabilitation Fund scheme	-	-
- Escrow Account for Buyback of Shares	-	-
- Unpaid dividend accounts	-	-
- Dividend accounts	-	-
Total	40.14	122.14



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 16 : EQUITY SHARE CAPITAL

(₹ in Crore)

	<u>As at 31.03.2022</u>	<u>As at 31.03.2021</u>
<u>Authorised</u>		
15,00,000 Equity Shares of ₹1000/- each	150.00	150.00
	150.00	150.00
<u>Issued, Subscribed and Paid-up</u>		
(Held by Coal India Ltd., the Holding Co. & its nominees)		
8 Equity Shares of ₹ 1,000/- each fully paid in Cash (Previous Year 8 Equity shares of ₹ 1,000/- each)	-	-
1322992 Equity Shares of ₹ 1,000/- each allotted as fully paid up for consideration received other than cash (Previous Year 275792 Equity Shares of ₹ 1,000/- each)	132.30	132.30
105000 Equity Shares of ₹ 1000/- each allotted as fully paid for Cash to Holding Company by converting loan in equity	10.50	10.50
Total	142.80	142.80

1 Shares in the company held by each shareholder holding more than 5% Shares

Name of Shareholder	No. of Shares held (Face value of ₹1000 each)	% of Total Shares
Coal India Limited	1,428,000	100%

2 Reconciliation of equity shares outstanding at the beginning and at the end of reporting period:-

Particular	Number of Share	Amount Rs. cr.
Balance as on 01.04.2020	380,800	38.08
Addition During the F.Y 2020-21 (Bonus)	1,047,200	104.72
Balance as on 01.04.2021	1,428,000	142.80
Change during FY 2021-22	-	-
Balance as on 31.03.2022	1,428,000	142.80

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 17 : OTHER EQUITY

(₹ in Crore)

	Other Reserves		General Reserve	Retained Earnings	Other Comprehensive Income	Total
	Capital Redemption reserve	Capital reserve				
Balance as at 01.04.2020 Additions during the year Adjustments during the year Profit for the year Remeasurement of Defined Benefits Plans (net of Tax) Appropriations Transfer to / from General reserve Interim Dividend Final Dividend Corporate Dividend tax Issue of Bonus Shares Balance as at 31.03.2021	-	18.57	22.37	484.06	25.80	550.80
	-	0.19	15.85	-	-	16.04
	-	(0.98)	-	-	-	(0.98)
	-	-	-	316.96	-	316.96
	-	-	-	-	(7.12)	(7.12)
	-	-	-	-	-	-
	-	-	-	(15.85)	-	(15.85)
	-	-	-	(64.77)	-	(64.77)
	-	-	-	(30.91)	-	(30.91)
	-	-	(22.37)	(82.35)	-	(104.72)
Additions during the year Adjustments during the year Profit for the year Interim Dividend Final Dividend Corporate Dividend tax Issue of Bonus Shares Balance as at 31.03.2022	-	17.78	15.85	607.14	18.68	659.45
	-	2.20	14.10	-	-	16.30
	-	(1.08)	-	(14.10)	-	(15.18)
	-	-	-	282.12	19.94	302.06
	-	-	-	(60.59)	-	(60.59)
	-	-	-	(30.32)	-	(30.32)
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	18.90	29.95	784.25	38.62	871.72



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 18: BORROWINGS

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
Non-Current		
Term Loans		
- From Banks	-	-
- From Other Parties	-	-
Loans from Related Parties	-	-
Other Loans	-	-
Total	-	-
CLASSIFICATION		
Secured	-	-
Unsecured	-	-
Current		
Loans repayable on demand		
- From Banks	-	-
- From Other Parties	-	-
Loans from Related Parties	-	-
Other Loans	-	-
Total	-	-
CLASSIFICATION		
Secured	-	-
Unsecured	-	-

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 19 :TRADE PAYABLES

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
Current		
Micro, Small and Medium Enterprises	-	0.42
Other than Micro, Small and Medium Enterprises	150.94	209.24
Total	150.94	209.66

Trade payables - Total outstanding dues of Micro, Small and Medium enterprises

	31.03.2022	31.03.2021
a) Principal & Interest amount remaining unpaid but not due as at period end	Nil	0.42
b) Interest paid by the Company in terms of Section 16 of Micro , Small and Medium Enterprises Development Act, 2006, along with the amount of the payment made to the supplier beyond the appointed day during the period	Nil	Nil
c) Interest due and payable for the period of delay in making payment (which have been paid but beyond the appointed day during the year) but without adding the interest specified under Micro, Small and Medium Enterprises Development Act, 2006,	Nil	Nil
d) Interest accrued and remaining unpaid as at period end	Nil	Nil
e) Further interest remaining due and payable even in the succeeding years , until such date when the interest dues as above are actually paid to the small enterprise	Nil	Nil

Trade Payables aging schedule	Outstanding for following periods from transaction date			
Particulars	Less than 1 year	1-2 Years	2-3 years	More than 3 years
i) MSME				
ii) Others	150.81			0.13
iii) Disputed dues -MSME				
iv) Disputed dues -Others				
v) Unbilled dues				



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 20 : OTHER FINANCIAL LIABILITIES

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
Non Current		
Security Deposits	78.30	85.80
Earnest Money	0.19	2.97
Others	-	-
Total	78.49	88.77
Current		
Surplus fund from Subsidiaries	-	-
Current Account with	-	-
- Subsidiaries	-	-
- IICM	-	-
Current maturities of long-term debt	-	-
Unpaid dividends	-	-
Security Deposits	15.46	3.81
Earnest Money	2.10	1.13
Payable for Capital Expenditure	8.95	12.38
Liability for Employee Benefits	38.98	50.13
Others	7.44	9.70
Total	72.93	77.15

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 21 : PROVISIONS

(₹ in Crore)

	As at 31.03.2022	As at 31.03.2021
Non Current		
Employee Benefits		
- Gratuity *	44.77	76.03
- Leave Encashment *	0.26	76.20
- Post Retirement Medical Benefits *	38.83	45.10
- Other Employee Benefits	4.89	10.97
Site Restoration/Mine Closure	-	-
Stripping Activity Adjustment	-	-
Others	0.01	0.01
Total	88.76	208.31
Current		
Employee Benefits		
- Gratuity *	21.74	31.79
- Leave Encashment *	8.01	11.27
- Post Retirement Medical Benefits	8.06	11.39
- Ex- Gratia	14.08	15.29
- Performance Related Pay	84.46	63.25
- Other Employee Benefits	8.53	2.07
	144.88	135.06
Site Restoration/Mine Closure	-	-
Excise Duty on Closing Stock of Coal	-	-
Others **	-	-
Total	144.88	135.06

Note :

* Gratuity Liabilities is netted off of to the extent Rs 96.35 Cr.

* Post Retirement Medical Benefit Liability is netted off to the extent Rs 67.85 Cr

* Leave Encashment Liabilities is netted off of to the extent Rs 92.75 Cr.



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 22 :OTHER NON CURRENT LIABILITIES

(₹ in Crore)

	<u>As at 31.03.2022</u>	<u>As at 31.03.2021</u>
Shifting & Rehabilitation Fund		
Deferred Income	-	-
Others		
Total	-	-

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 23: OTHER CURRENT LIABILITIES

(₹ in Crore)

	<u>As at 31.03.2022</u>	<u>As at 31.03.2021</u>
Statutory Dues:		
Statutory Dues	76.92	68.84
Advance for Coal Import	-	-
Advance from customers / others	1.83	15.54
Cess Equalization Account	-	-
Others liabilities	62.24	111.31
Total	140.99	195.69

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 24 : REVENUE FROM OPERATIONS

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
A. Sales of Services	1,426.33	1,753.79
Less -.Statutory Levies	217.90	265.19
Net Sales (A) *	1,208.43	1,488.60
B.Other Operating Revenue		
Subsidy for Sand Stowing & Protective	-	-
Facilitation charges for coal import	-	-
Loading and additional transportation charges	-	-
Less: Statutory Levies (excluding Excise)	-	-
	-	-
Evacuation facilitating Charges	-	-
Less: Statutory Levies	-	-
	-	-
Revenue from services	-	-
Less: Statutory Levies	-	-
	-	-
Other Operating Revenue (B)	-	-
Revenue From Operations (A+B)	1,208.43	1,488.60

Sales includes services to CIL and Subsidiaries within Group Gross amount Rs 1145.93 Crores (Previous year Rs 1163.47. Crores) and levies thereon Rs 174.80 Crores (Previous Year Rs 177.48 Crores); Services outside group includes Gross Rs.280.39 Crores (Previous year Rs 590.32 Crores) and levies thereon recognised Rs 43.09 Crores (Previous year Rs 87.71Crores).



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 25 : OTHER INCOME

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
Interest Income	4.13	12.16
Dividend Income	-	-
<u>Others</u>		
Apex charges	-	-
Profit on Sale of Assets	-	0.01
Gain on Foreign exchange Transactions	0.03	-
Lease Rent	-	-
Liability / Provision Write Backs	1.13	0.03
Misc. Income	24.54	7.88
Total	29.83	20.08

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 26 : COST OF MATERIALS CONSUMED

		(₹ in Crore)
	For the Year ended	For the Year ended
	31.03.2022	31.03.2021
Explosives	0.02	-
Timber	-	-
Oil & Lubricants	18.14	10.54
HEMM Spares	-	-
Other Consumable Stores & Spares	15.46	11.45
Total	33.62	21.99

NOTE 27 : CHANGES IN INVENTORIES OF FINISHED GOODS, WORK IN PROGRESS AND STOCK IN TRADE

		(₹ in Crore)
	For the Year ended	For the Year ended
	31.03.2022	31.03.2021
Opening Stock of Coal	-	-
Add: Adjustment of opening stock	-	-
Less: Deterioration of Coal	-	-
Closing Stock of Coal	-	-
Less: Deterioration of Coal	-	-
A. Change in Inventory of Coal and WIP	-	-
Add: Adjustment of Opening Stock	-	-
Less: Provision	-	-
and WIP	-	-
Less: Provision	-	-
B. Change in Inventory of workshop	-	-
Press Opening Job	-	-
i) Finished Goods	-	-
ii) Work in Progress	-	-
Less: Press Closing Job	-	-
i) Finished Goods	-	-
ii) Work in Progress	-	-
C. Change in Inventory of Closing Stock of Press Job	-	-
Change in Inventory of Stock in trade (A+B+C) {Decretion / (Accretion)}	-	-



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 28 : EMPLOYEE BENEFITS EXPENSES

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
Salary and Wages (incl. Allowances and Bonus etc.)	434.05	358.87
Contribution to P.F. & Other Funds	119.03	137.62
Staff welfare Expenses	17.74	55.34
Total	570.82	551.83

NOTE 29 : CORPORATE SOCIAL RESPONSIBILITY EXPENSE

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
CSR Expenses	6.86	4.66
Total	6.86	4.66

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 29 (Contd.)

CORPORATE SOCIAL RESPONSIBILITY EXPENSE

NOTES TO CSR

(₹ in Crore)

A. Activity wise break-up of CSR Expenses :	For the year ended 31.03.2022		For the year ended 31.03.21
Eradicating hunger, poverty and malnutrition	4.93		2.75
Promoting education, including special education and employment enhancing vocation skills	0.8		1.45
Gender equality and measures for reducing inequalities faced by socially and economically backward groups	0.47		0.13
Environmental sustainability	0.62		0.12
Protection of national heritage, art and culture	0		0.00
Benefit of armed forces veterans, war widows and their dependents	0		0.00
Training to promote rural sports, nationally recognized sports, Paralympic sports and Olympic sports	0		0.00
Contribution to fund set up by the Central government for socio economic development	0		0.00
Contribution to incubators or research and development projects	0		0.00
Contributions to Universities and Research Institutes	0		0.00
Rural development projects	0		0.01
Slum area development	0		0.20
Disaster management, including relief, rehabilitation and reconstruction activities	0		0.00
Admin Expenditure	0.04		
Total	6.86		4.66

B. CSR Expenditure Break-up

(₹ in Crore)

(a) Amount Required to be spent during the year	6.61	4.65
(b) Amount approved by the Board to be spent during the year	7	5
(c) Amount spent during the year on:		
(i) Construction/Acquisition of any asset	Nil	Nil
(ii) on purposes other than (i) above	Nil	Nil

C. Unspent amount Other than ongoing Project [Section 135(5)]

	Opening Balance	Amount deposited in Specified Fund of Sch. VII within 6 months	Amount required to be spent during the year	Amount deposited in Specified Fund of Sch. VII within 6 months	Amount required to be spent during the year	Amount spent during the year	Closing Balance
Unspent amount Other than ongoing Project	Nil	NA	NA	NA	NA	NA	NA

D. Excess amount spent [Section 135(5)]

(₹ in Crore)

Year wise Details	Opening Balance	Amount required to be spent during the year	Amount spent during the year	Amount required to be spent during the year	Amount spent during the year	Closing Balance
2021-22	Nil	6.61	6.86	6.61	6.86	0.25

E. Ongoing Project [Section 135(6)] (to be given year-wise)

Year wise Details	Opening Balance				Amount required to be spent during the year	Amount spent during the year		Closing Balance	
	With Company	In Separate CSR Unspent A/C		In Separate CSR Unspent A/C		From Company's bank A/C	From Separate CSR Unspent A/C	With Company	In Separate CSR Unspent A/C
2021-22	Nil	NA	NA	NA	NA	NA	NA	NA	NA

Provision for Liability of CSR Expenses

	Opening Balance	Addition during the period	Adjustment during the period	Closing Balance
Provision for Liability of CSR Expenses	0.92	1.36	1.38	0.9

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 30 : REPAIRS

	(₹ in Crore)	
	For the Year ended	For the Year ended
	31.03.2022	31.03.2021
Building	8.51	5.34
Plant & Machinery	10.01	10.31
Others	2.74	9.69
Total	21.26	25.34

NOTE 31 : CONTRACTUAL EXPENSES

	(₹ in Crore)	
	For the Year ended	For the Year ended
	31.03.2022	31.03.2021
Transportation Charges :		
Hiring of Plant and Equipments	-	-
Other Contractual Work	145.87	406.94
Total	145.87	406.94



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 32 : FINANCE COSTS

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
Interest Expenses		
Borrowings	-	-
Unwinding of discounts	0.07	0.07
Others	-	0.09
Total	0.07	0.16

NOTE 33 : PROVISIONS (NET OF REVERSAL)

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
ALLOWANCE/PROVISION MADE FOR		
Doubtful debts	-	1.45
Doubtful Advances & Claims	-	-
Stores & Spares	-	-
Others	-	-
Total	-	1.45

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 34 : WRITE OFF (Net of past provisions)

(₹ in Crore)

	For the Year ended	For the Year ended
	31.03.2022	31.03.2021
Doubtful debts	-	-
Less :- Provided earlier	-	-
Grade Variance	-	-
Doubtful advances	-	-
Less :- Provided earlier	-	-
Stock of Coal	-	-
Less :- Provided earlier	-	-
Others	-	0.05
Less :- Provided earlier	-	-
Total	-	0.05



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 35 : OTHER EXPENSES

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
Traveling expenses	13.93	12.27
Training Expenses	1.76	0.56
Telephone & Postage	4.76	1.63
Advertisement & Publicity	1.31	1.19
Freight Charges	-	-
Demurrage	-	-
Security Expenses	20.27	19.86
Service Charges of CIL	-	-
Hire Charges	12.92	10.43
Legal Expenses	0.08	0.06
Consultancy Charges	0.81	0.73
Under Loading Charges	-	-
Loss on Sale/Discard/Surveyed of Assets	-	-
Auditor's Remuneration & Expenses		
- For Audit Fees	0.08	0.09
- For Taxation Matters	0.04	-
- For Other Services	-	0.09
- For Reimbursement of Exps.	-	0.22
Internal & Other Audit Expenses	1.00	0.48
Rehabilitation Charges	-	-
Lease Rent	0.18	0.80
Rates & Taxes	1.34	0.46
Insurance	0.33	0.08
Loss on Exchange Rate Variance	0.06	-
Other Rescue/Safety Expenses	-	-
Dead Rent/Surface Rent	-	-
Siding Maintenance Charges	-	-
R & D expenses	-	-
Environmental & Tree Plantation Expenses	1.75	0.36
Miscellaneous expenses	7.53	9.23
Total	68.15	58.54

Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 36 : Tax Expense

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
Current Year	75.03	95.14
Deferred tax	8.89	2.39
Earlier Years	-	-
Total	83.92	97.53

Reconciliation of tax Expenses and the accounting profit	For the year ended 31.03.2022	For the year ended 31.03.2021
Profit Before Tax	366.04	414.49
At income tax rate of 25.168%	92.12	104.32
less Tax on allowable expenses	23.45	24.21
Add: Tax on non deductible expenses	6.36	15.03
Income Tax Expenses as per normal (A)	75.03	95.14
Income tax under MAT provision(Sec 115JB) (B)	-	-
Tax Payable higher of A/B	75.03	95.14
MAT credit entitlement	-	-
Deferred tax	8.89	2.39
Tax for earlier years	-	-
Income tax expenses reported in statement of profit & loss	83.92	97.53
Effective income tax rate:	22.93	23.53

Deferred tax liability relates to following:	31.03.2022	31.03.2021
A. Deferred Tax Assets:		
Provision for Doubtful Advances, Claims & Debts	0.85	1.20
Employee Benefits	75.75	83.28
Others (Includes taxable losses)	0.04	0.04
TOTAL OF (A)	76.64	84.52
B. Deferred Tax Liability:		
Related to Fixed Assets	9.67	8.66
Others	-	-
TOTAL OF (B)	9.67	8.66
C. Net (A-B)	66.97	75.86



Central Mine Planning and Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 37 : Other Comprehensive Income

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
(A)(i) Items that will not be reclassified to profit or loss		
Remeasurement of defined benefit plans	26.65	(9.51)
	26.65	(9.51)
(ii) Income tax relating to items that will not be reclassified to profit or loss		
Remeasurement of defined benefit plans	6.71	(2.39)
	6.71	(2.39)
Total (A)	19.94	(7.12)
(B)(i) Items that will be reclassified to profit or loss		
Share of OCI in Joint ventures	-	-
	-	-
(ii) Income tax relating to items that will be reclassified to profit or loss		
Share of OCI in Joint ventures	-	-
	-	-
Total (B)	-	-
Total (A+B)	19.94	(7.12)

1. Income tax on remeasurement of defined benefit plans includes current tax ₹ 6.71 crores for the period ended 31.03.2022 (for the year ended 31.03.2021 ₹ -2.39 crores)

Note 1 : CORPORATE INFORMATION

Central Mine Planning & Design Institute Limited (CMPDIL) was incorporated under the Indian Companies Act, 1956 to provide consultancy support in coal and mineral exploration including geological, geophysical, hydrological and environmental data generation to CIL and its Subsidiaries and to other outside companies. CMPDIL is a Schedule 'B' / Miniratna-Cat-I CPSE under the administrative control of Ministry of Coal. CMPDIL is a 100% subsidiary of Coal India Ltd. (CIL). Its Registered office is situated at Gondwana Place, Kanke Road, Ranchi - 834 031, Jharkhand, India. The authorized and paid up share capital of the Company is Rs. 150 crore and Rs. 142.80 crore respectively as on March 31, 2022.

Note 2 : SIGNIFICANT ACCOUNTING POLICIES

2.1 Basis of preparation

The financial statements of the Company have been prepared in accordance with Indian Accounting Standards (Ind AS) notified under the section 133 of Companies Act, 2013 ("The Act") (Indian Accounting Standards) Rules, 2015.

The financial statements have been prepared on historical cost basis of measurement, except for

- Certain financial assets and liabilities measured at fair value.
- Defined benefit plans- plan assets measured at fair value.
- Inventories at Cost or NRV whichever is lower.

2.1.1 Rounding of amounts

Amounts in these financial statements have, unless otherwise indicated, have been rounded off to the 'rupees in crore' up to two decimal points.

2.2 Current and Non-current Classification

The Company presents assets and liabilities in the Balance Sheet based on current/ non-current classification.

An asset is treated as current when:

- (a) It expects to realise the asset, or intends to sell or consume it, in its normal operating cycle;
- (b) It holds the asset primarily for the purpose of trading;
- (c) It expects to realise the asset within twelve months after the reporting period; or
- (d) The asset is cash or a cash equivalent (as defined in Ind AS 7) unless the asset is restricted from being exchanged or used to settle a liability for at least twelve months after the reporting period. All other assets are classified as non-current.

An entity shall classify a liability as current when:

- (a) It expects to settle the liability in its normal operating cycle;
- (b) It holds the liability primarily for the purpose of trading;
- (c) The liability is due to be settled within twelve months after the reporting period; or

- (d) It does not have an unconditional right to defer settlement of the liability for at least twelve months after the reporting period. Terms of a liability that could, at the option of the counterparty, result in its settlement by the issue of equity instruments do not affect its classification.

All other liabilities are classified as non-current.

2.3 Revenue recognition

Revenue from contracts with customers

Revenue from contracts with customers is recognized when control of the goods or services are transferred to the customer at an amount that reflects the consideration to which the Company expects to be entitled in exchange for those goods or services. The Company has generally concluded that it is the principal in its revenue arrangements because it typically controls the goods or services before transferring them to the customer.

The principles in Ind AS 115 are applied using the following five steps:

Step 1 : Identifying the contract:

The Company account for a contract with a customer only when all of the following criteria are met:

- a) The parties to the contract have approved the contract and are committed to perform their respective obligations;
- b) The Company can identify each party's rights regarding the goods or services to be transferred;
- c) The Company can identify the payment terms for the goods or services to be transferred;
- d) The contract has commercial substance (i.e. the risk, timing or amount of the Company's future cash flows is expected to change as a result of the contract); and
- e) it is probable that the Company will collect the consideration to which it will be entitled in exchange for the goods or services that will be transferred to the customer. The amount of consideration to which the Company will be entitled may be less than the price stated in the contract if the consideration is variable because the Company may offer the customer a price concession, discount, rebates, refunds, credits or be entitled to incentives, performance bonuses, or similar items.

Combination of contracts

The Company combines two or more contracts entered into at or near the same time with the same customer (or related parties of the customer) and account for the contracts as a single contract if one or more of the following criteria are met:

- a) The contracts are negotiated as a package with a single commercial objective;
- b) The amount of consideration to be paid in one contract depends on the price or performance of the other contract; or
- c) The goods or services promised in the contracts (or some goods or services promised in each of the contracts) are a single performance obligation.

Contract modification

The Company account for a contract modification as a separate contract if both of the following conditions are present:

- a) The scope of the contract increases because of the addition of promised goods or services that are distinct and
- b) The price of the contract increases by an amount of consideration that reflects the company's stand-alone selling prices of the additional promised goods or services and any appropriate adjustments to that price to reflect the circumstances of the particular contract.

Step 2 : Identifying performance obligations:

At contract inception, the Company assesses the goods or services promised in a contract with a customer and identify as a performance obligation each promise to transfer to the customer either:

- a) A good or service (or a bundle of goods or services) that is distinct; or
- b) A series of distinct goods or services that are substantially the same and that have the same pattern of transfer to the customer.

Step 3 : Determining the transaction price

The Company consider the terms of the contract and its customary business practices to determine the transaction price. The transaction price is the amount of consideration to which the Company expects to be entitled in exchange for transferring promised goods or services to a customer, excluding amounts collected on behalf of third parties. The consideration promised in a contract with a customer may include fixed amounts, variable amounts, or both.

When determining the transaction price, a Company consider the effects of all of the following:

- Variable consideration;
- Constraining estimates of variable consideration;
- The existence of significant financing component;
- Non – cash consideration;
- Consideration payable to a customer.

An amount of consideration can vary because of discounts, rebates, refunds, credits, price concessions, incentives, performance bonuses, or other similar items. The promised consideration can also vary if the Company's entitlement to the consideration is contingent on the occurrence or non-occurrence of a future event.

In some contracts, penalties are specified. In such cases, penalties are accounted for as per the substance of the contract. Where the penalty is inherent in determination of transaction price, it forms part of variable consideration.

The Company includes in the transaction price some or all of an amount of estimated variable consideration only to the extent that it is highly probable that a significant reversal in the amount of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is subsequently resolved.

The Company does not adjust the promised amount of consideration for the effects of a significant financing component if it expects, at contract inception, that the period between when it transfers a promised Goods or Service to a customer and when the customer pays for that good or service will be one year or less.

The Company recognizes a refund liability if the Company receives consideration from a customer and expects to refund some or all of that consideration to the customer. A refund liability is measured at the amount of consideration received (or receivable) for which the company does not expect to be entitled (i.e. amounts not included in the transaction price). The refund liability (and corresponding change in the transaction price and, therefore, the contract liability) is updated at the end of each reporting period for changes in circumstances.

After contract inception, the transaction price can change for various reasons, including the resolution of uncertain events or other changes in circumstances that change the amount of consideration to which the Company expects to be entitled in exchange for the promised goods or services.

Step 4 : Allocating the transaction price:

The objective when allocating the transaction price is for the Company to allocate the transaction price to each performance obligation (or distinct Good or Service) in an amount that depicts the amount of consideration to which the Company expects to be entitled in exchange for transferring the promised goods or services to the customer.

To allocate the transaction price to each performance obligation on a relative stand-alone selling price basis, the Company determines the stand-alone selling price at contract inception of the distinct Good or Service underlying each performance obligation in the contract and allocate the transaction price in proportion to those stand-alone selling prices..

Step 5 : Recognizing revenue:

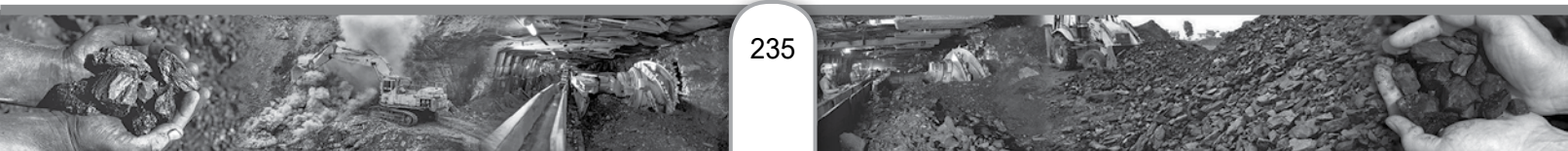
The Company recognizes revenue when (or as) the Company satisfies a performance obligation by transferring a promised good or service to a customer. A Good or Service is transferred when (or as) the customer obtains control of that Good or Service.

The Company transfers control of a Good or Service over time and, therefore, satisfies a performance obligation and recognizes revenue over time, if one of the following criteria is met:

- a) The customer simultaneously receives and consumes the benefits provided by the company's performance as the Company performs;
- b) The Company's performance creates or enhances an asset that the customer controls as the asset is created or enhanced;
- c) The Company's performance does not create an asset with an alternative use to the Company and the Company has an enforceable right to payment for performance completed to date.

For each performance obligation satisfied over time, the Company recognizes revenue over time by measuring the progress towards complete satisfaction of that performance obligation.

The Company applies a single method of measuring progress for each performance obligation satisfied over time and the Company applies that method consistently to similar performance obligations and in similar circumstances. At the end of each reporting period, the Company



re-measure its progress towards complete satisfaction of a performance obligation satisfied over time.

Company apply output methods to recognize revenue on the basis of direct measurements of the value to the customer of the goods or services transferred to date relative to the remaining goods or services promised under the contract. Output methods include methods such as surveys of performance completed to date, appraisals of results achieved, milestones reached, time elapsed and units produced or units delivered.

As circumstances change over time, the Company update its measure of progress to reflect any changes in the outcome of the performance obligation. Such changes to the Company's measure of progress is accounted for as a change in accounting estimate in accordance with Ind AS 8, Accounting Policies, Changes in Accounting Estimates and Errors.

The Company recognizes revenue for a performance obligation satisfied over time only if the Company can reasonably measure its progress towards complete satisfaction of the performance obligation. When (or as) a performance obligation is satisfied, the company recognize as revenue the amount of the transaction price (which excludes estimates of variable consideration that are constrained that is allocated to that performance obligation).

If a performance obligation is not satisfied over time, the Company satisfies the performance obligation at a point in time. To determine the point in time at which a customer obtains control of a promised good or service and the Company satisfies a performance obligation, the Company consider indicators of the transfer of control, which include, but are not limited to, the following:

- a) The Company has a present right to payment for the good or service;
- b) The customer has legal title to the good or service;
- c) The Company has transferred physical possession of the good or service;
- d) The customer has the significant risks and rewards of ownership of the good or service;
- e) The customer has accepted the good or service.

When either party to a contract has performed, the Company present the contract in the balance sheet as a contract asset or a contract liability, depending on the relationship between the Company's performance and the customer's payment. The Company present any unconditional rights to consideration separately as a receivable.

Contract assets:

A contract asset is the right to consideration in exchange for goods or services transferred to the customer. If the Company performs by transferring goods or services to a customer before the customer pays consideration or before payment is due, a contract asset is recognized for the earned consideration that is conditional.

Trade receivables:

A receivable represents the Company's right to an amount of consideration that is unconditional (i.e., only the passage of time is required before payment of the consideration is due).

Contract liabilities:

A contract liability is the obligation to transfer Goods or Services to a customer for which the Company has received consideration (or an amount of consideration is due) from the

customer. If a customer pays consideration before the Company transfers Goods or Services to the customer, a contract liability is recognized when the payment made or due (whichever is earlier). Contract liabilities are recognized as revenue when the Company performs under the contract.

Interest

Interest income is recognised using the Effective Interest Method.

Dividend

Dividend income from investments is recognised when the rights to receive payment is established.

Other Claims

Other claims (including interest on delayed realization from customers) are accounted for, when there is certainty of realisation and can be measured reliably.

Revenue from Consultancy Services by CMPDIL, a subsidiary of Coal India Limited

Recognition of revenue arising out of Consultancy Services for exploration, mine planning/project reports, environmental plans and other Engineering Services is based on the pricing formula adopted for different categories of customers. The services rendered to Holding Company and its other Subsidiaries are priced uniformly at cost plus service charges of 10% for P&D service and 7.5% for Departmental drilling services, for drilling services performed by outsourced agencies service charges range from 7.5% to 20%. Environment monitoring jobs are carried out at 90% of Central Pollution Control Board (CPCB) rate of 2017. A separate cost centre (Geomatics) introduced w.e.f. 01.04.2018, previously it was included in P&D jobs (internal consultancy)

2.4 Grants from Government

Government Grants are not recognised until there is reasonable assurance that the Company will comply with the conditions attached to them and that the grants will be received.

Government grants are recognised in Statement of Profit & Loss on a systematic basis over the periods in which the Company recognises as expenses the related costs against which the grants are intended to compensate.

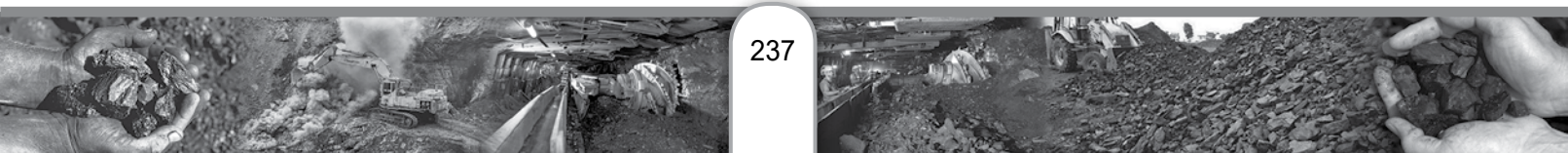
Government Grants related to assets are presented in the Balance Sheet by setting up the grant as deferred income.

Grants related to income (i.e. grant related to other than assets) are presented as part of Statement of Profit or Loss under the general heading 'Other Income'.

A government grant that becomes receivable as compensation for expenses or losses already incurred or for the purpose of giving immediate financial support to the entity with no future related costs, is recognised in profit or loss of the period in which it becomes receivable

2.5 Leases

A contract is, or contains, a lease if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration.



2.5.1 Company as a lessee

At the commencement date, a lessee shall recognise a right-of-use asset at cost and a lease liability at the present value of the lease payments that are not paid at that date for all leases unless the lease term is 12 months or less or the underlying asset is of low value.

Subsequently, right-of-use asset is measured using cost model whereas, the lease liability is measured by increasing the carrying amount to reflect interest on the lease liability, reducing the carrying amount to reflect the lease payments made and re-measuring the carrying amount to reflect any reassessment or lease modifications.

Finance charges are recognised in finance costs in the Statement of Profit and Loss, unless the costs are included in the carrying amount of another asset applying other applicable standards.

Right-of-use asset is depreciated over the useful life of the asset, if the lease transfers ownership of the asset to the lessee by the end of the lease term or if the cost of the right-to-use asset reflects that the lessee will exercise a purchase option. Otherwise, the lessee shall depreciate the right-to-use asset from the commencement date to the earlier of the end of the useful life of the right-of-use asset or the end of the lease term

2.5.2 Company as a lessor

All leases are either an operating lease or a finance lease.

A lease is classified as a finance lease if it transfers substantially all the risks and rewards incidental to ownership of an underlying asset. A lease is classified as an operating lease if it does not transfer substantially all the risks and rewards incidental to ownership of an underlying asset

Operating leases - lease payments from operating leases are recognised as income on either a straight-line basis unless another systematic basis is more representative of the pattern in which benefit from the use of the underlying asset is diminished.

Finance leases - assets held under a finance lease is initially recognised in its Balance Sheet and present them as a receivable at an amount equal to the net investment in the lease using the interest rate implicit in the lease to measure the net investment in the lease.

Subsequently, finance income is recognised over the lease term, based on a pattern reflecting a constant periodic rate of return on the lessor's net investment in the lease.

2.6 Property, Plant and Equipment (PPE)

Land is carried at historical cost. Historical cost includes expenditure which are directly attributable to the acquisition of the land like, rehabilitation expenses, resettlement cost and compensation in lieu of employment incurred for concerned displaced persons etc.

After recognition, an item of all other Property, Plant and Equipment are carried at its cost less any accumulated depreciation and any accumulated impairment losses under Cost. The cost of an item of Property, Plant and Equipment comprises:

- (a) Its purchase price, including import duties and non-refundable purchase taxes, after deducting trade discounts and rebates.
- (b) Any costs directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management.
- (c) The initial estimate of the costs of dismantling and removing the item and restoring the site on which it is located, the obligation for which an entity incurs either when the item is acquired or as a consequence of having used the item during a particular period for purposes other than to produce inventories during that period.

Each part of an item of Property, Plant and Equipment with a cost that is significant in relation to the total cost of the item depreciated separately. However, significant part(s) of an item of PPE having same useful life and depreciation method are grouped together in determining the depreciation charge.

Costs of the day to-day servicing described as for the 'Repairs and Maintenance' are recognised in the statement of profit and loss in the period in which the same are incurred.

Subsequent cost of replacing parts of an item of Property, Plant and Equipment are recognised in the carrying amount of the item, if it is probable that future economic benefits associated with the item will flow to the group; and the cost of the item can be measured reliably. The carrying amount of those parts that are replaced is derecognised in accordance with the derecognition policy mentioned below.

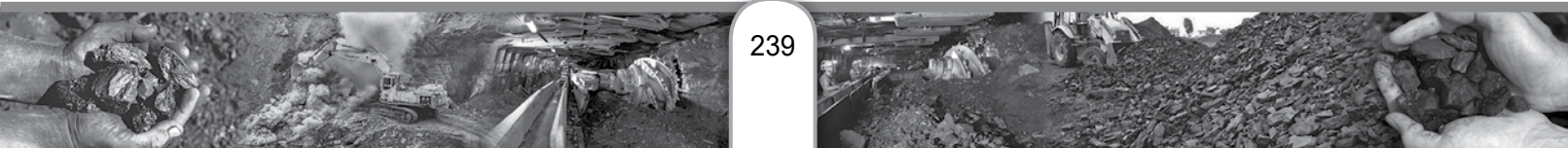
When major inspection is performed, its cost is recognised in the carrying amount of the item of Property, Plant and Equipment as a replacement if it is probable that future economic benefits associated with the item will flow to the group; and the cost of the item can be measured reliably. Any remaining carrying amount of the cost of the previous inspection (as distinct from physical parts) is derecognised.

An item of Property, Plant or Equipment is derecognised upon disposal or when no future economic benefits are expected from the continued use of assets. Any gain or loss arising on such derecognition of an item of Property Plant and Equipment is recognised in Profit and Loss.

Depreciation on Property, Plant and Equipment, except freehold land, is provided as per cost model on straight line basis over the estimated useful lives of the asset as follows:

Other Land

(Incl. Leasehold Land)	:	Life of the project or lease term whichever is lower
Building	:	3-60 years
Roads	:	3-10 years
Telecommunication	:	3-9 years
Plant and Equipment	:	5-15 years
Computers and Laptops	:	3 Years
Office equipment	:	3-6 years



Furniture and Fixtures	:	10 years
Vehicles	:	8-10 years

Based on technical evaluation, the management believes that the useful lives given above best represents the period over which the management expects to use the asset. Hence the useful lives of the assets may be different from useful lives as prescribed under Part C of Schedule II of Companies Act, 2013.

The estimated useful life of the assets is reviewed at the end of each financial year.

The residual value of Property, Plant and Equipment is considered as 5% of the original cost of the asset.

Depreciation on the assets added / disposed of during the year is provided on pro-rata basis with reference to the month of addition / disposal.

Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement (RFCTLAAR) Act, 2013, Long term transfer of government land etc, which is amortised on the basis of the balance life of the project, and in case of Leasehold land such is amortisation is based on lease period or balance life of the project whichever is lower.

Fully depreciated assets, retired from active use are disclosed separately as surveyed off assets at its residual value under Property, Plant and Equipment are tested for impairment.

Capital Expenses incurred by the company on construction/development of certain assets which are essential for production, supply of goods or for the access to any existing Assets of the company are recognised as Enabling Assets under Property, Plant and Equipment.

Transition to Ind AS

The Company elected to continue with the carrying value as per cost model (for all of its Property, Plant and Equipment as recognised in the financial statements as at the date of transition to Ind ASs, measured as per the previous GAAP

2.7 Intangible Assets

Intangible assets acquired separately are measured on initial recognition at cost. The cost of intangible assets acquired in a business combination is their fair value at the date of acquisition. Following initial recognition, intangible assets are carried at cost less any accumulated amortisation (calculated on a straight-line basis over their useful lives) and accumulated impairment losses, if any.

Internally generated intangibles, excluding capitalised development costs, are not capitalised. Instead, the related expenditure is recognised in the statement of Profit or Loss and other comprehensive income in the period in which the expenditure is incurred. The useful lives of intangible assets are assessed as either finite or indefinite. Intangible assets with finite lives are amortised over their useful economic lives and assessed for impairment whenever there is an indication that the intangible asset may be impaired. The amortisation period and the amortisation method for an intangible asset with a finite useful life are reviewed at least at the end of each reporting period. Changes in the expected useful life or the expected pattern

of consumption of future economic benefits embodied in the asset are considered to modify the amortisation period or method, as appropriate, and are treated as changes in accounting estimates. The amortisation expense on intangible assets with finite lives is recognised in the statement of profit or loss.

An intangible asset with an indefinite useful life is not amortised but is tested for impairment at each reporting date.

Gains or losses arising from derecognition of an intangible asset are measured as the difference between the net disposal proceeds and the carrying amount of the asset and are recognised in the statement of profit or loss.

2.8 Impairment of Assets

The Company assesses at the end of each reporting period whether there is any indication that an asset may be impaired. If any such indication exists, the Company estimates the recoverable amount of the asset. An asset's recoverable amount is the higher of the asset's or cash-generating unit's value in use and its fair value less costs of disposal, and is determined for an individual asset, unless the asset does not generate cash inflows that are largely independent of those from other assets or groups of assets, in which case the recoverable amount is determined for the cash-generating unit to which the asset belongs. Company considers individual mines as separate cash generating units for the purpose of test of impairment.

If the recoverable amount of an asset is estimated to be less than its carrying amount, the carrying amount of the asset is reduced to its recoverable amount and the impairment loss is recognised in the Statement of Profit and Loss.

2.9 Financial Instruments

A financial instrument is any contract that gives rise to a financial asset of one entity and a financial liability or equity instrument of another entity.

2.9.1 Financial assets

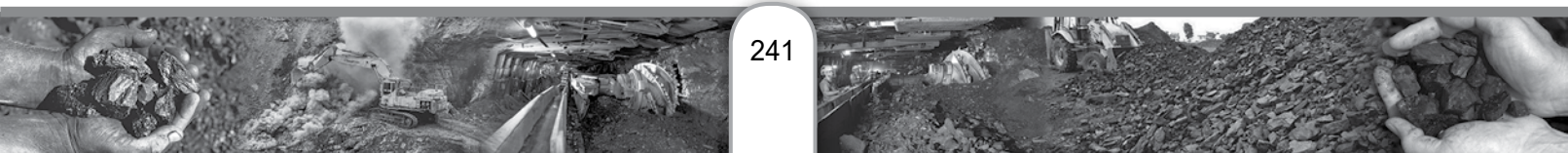
2.9.1 Initial recognition and measurement

All financial assets are recognised initially at fair value, in the case of financial assets not recorded at fair value through profit or loss, plus transaction costs that are attributable to the acquisition of the financial asset. Purchases or sales of financial assets that require delivery of assets within a time frame established by regulation or convention in the market place (regular way trades) are recognised on the trade date, i.e., the date that the Company commits to purchase or sell the asset.

2.9.2 Subsequent measurement

For purposes of subsequent measurement, financial assets are classified in four categories:

- Debt instruments at amortised cost
- Debt instruments at fair value through other comprehensive income (FVTOCI)
- Debt instruments, derivatives and equity instruments at fair value through profit or loss (FVTPL)
- Equity instruments measured at fair value through other comprehensive income (FVTOCI)



2.9.2.1 *Derecognition*

A financial asset (or, where applicable, a part of a financial asset or part of a group of similar financial assets) is primarily derecognised (i.e. removed from the balance sheet) when:

- The rights to receive cash flows from the asset have expired, or
- The Company has transferred its rights to receive cash flows from the asset or has assumed an obligation to pay the received cash flows in full without material delay to a third party under a 'pass-through' arrangement; and either (a) the Company has transferred substantially all the risks and rewards of the asset, or (b) the Company has neither transferred nor retained substantially all the risks and rewards of the asset, but has transferred control of the asset.

When the Company has transferred its rights to receive cash flows from an asset or has entered into a pass-through arrangement, it evaluates if and to what extent it has retained the risks and rewards of ownership. When it has neither transferred nor retained substantially all of the risks and rewards of the asset, nor transferred control of the asset, the Company continues to recognise the transferred asset to the extent of the Company's continuing involvement. In that case, the Company also recognises an associated liability. The transferred asset and the associated liability are measured on a basis that reflects the rights and obligations that the Company has retained. Continuing involvement that takes the form of a guarantee over the transferred asset is measured at the lower of the original carrying amount of the asset and the maximum amount of consideration that the Company could be required to repay.

2.9.2.2 *Impairment of financial assets (other than fair value)*

In accordance with Ind AS 109, the Company applies expected credit loss (ECL) model for measurement and recognition of impairment loss on the following financial assets and credit risk exposure:

- a) Financial assets that are debt instruments, and are measured at amortised cost e.g., loans, debt securities, deposits, trade receivables and bank balance.
- b) Financial assets that are debt instruments and are measured as at FVTOCI.
- c) Lease receivables under Ind AS 17.
- d) Trade receivables or any contractual right to receive cash or another financial asset that result from transactions that are within the scope of Ind AS 11 and Ind AS 18.

The Company follows 'simplified approach' for recognition of impairment loss allowance on:

- Trade receivables or contract revenue receivables; and
- All lease receivables resulting from transactions within the scope of Ind AS 17

The application of simplified approach does not require the Company to track changes in credit risk. Rather, it recognises impairment loss allowance based on lifetime ECLs at each reporting date, right from its initial recognition.

2.9.3 *Financial liabilities*

2.9.3.1 *Initial recognition and measurement*

The Company financial liabilities include trade and other payables, loans and borrowings including bank overdrafts.

All financial liabilities are recognised initially at fair value and, in the case of loans and borrowings and payables, net of directly attributable transaction costs.

2.9.3.2 Subsequent measurement

The measurement of financial liabilities depends on their classification, as described below:

2.9.3.3 Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss include financial liabilities held for trading and financial liabilities designated upon initial recognition as at fair value through profit or loss. Financial liabilities are classified as held for trading if they are incurred for the purpose of repurchasing in the near term. This category also includes derivative financial instruments entered into by the Company that are not designated as hedging instruments in hedge relationships as defined by Ind AS 109. Separated embedded derivatives are also classified as held for trading unless they are designated as effective hedging instruments.

Gains or losses on liabilities held for trading are recognised in the profit or loss.

Financial liabilities designated upon initial recognition at fair value through profit or loss are designated as such at the initial date of recognition, and only if the criteria in Ind AS 109 are satisfied. For liabilities designated as FVTPL, fair value gains/ losses attributable to changes in own credit risk are recognized in OCI. These gains/ loss are not subsequently transferred to P&L. However, the Company may transfer the cumulative gain or loss within equity. All other changes in fair value of such liability are recognised in the statement of profit or loss. The Company has not designated any financial liability as at fair value through profit and loss.

2.9.3.4 Financial liabilities at amortised cost

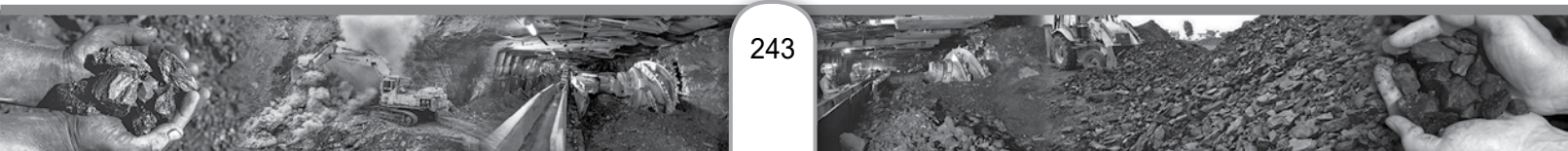
After initial recognition, these are subsequently measured at amortised cost using the effective interest rate method. Gains and losses are recognised in profit or loss when the liabilities are derecognised as well as through the effective interest rate amortisation process. Amortised cost is calculated by taking into account any discount or premium on acquisition and fees or costs that are an integral part of the effective interest rate. The effective interest rate amortisation is included as finance costs in the statement of profit and loss. This category generally applies to borrowings.

2.9.3.5 Derecognition

A financial liability is derecognised when the obligation under the liability is discharged or cancelled or expires. When an existing financial liability is replaced by another from the same lender on substantially different terms, or the terms of an existing liability are substantially modified, such an exchange or modification is treated as the derecognition of the original liability and the recognition of a new liability. The difference between the carrying amount of a financial liability (or part of a financial liability) extinguished or transferred to another party and the consideration paid, including any non-cash assets transferred or liabilities assumed, shall be recognised in profit or loss.

2.9.4 Reclassification of financial assets

The Company determines classification of financial assets and liabilities on initial recognition. After initial recognition, no reclassification is made for financial assets which are equity



instruments and financial liabilities. For financial assets which are debt instruments, a reclassification is made only if there is a change in the business model for managing those assets. Changes to the business model are expected to be infrequent. The Company senior management determines change in the business model as a result of external or internal changes which are significant to the Company operations. Such changes are evident to external parties. A change in the business model occurs when the Company either begins or ceases to perform an activity that is significant to its operations. If the Company reclassifies financial assets, it applies the reclassification prospectively from the reclassification date which is the first day of the immediately next reporting period following the change in business model. The group does not restate any previously recognised gains, losses (including impairment gains or losses) or interest.

The following table shows various reclassification and how they are accounted for

Original classification	Revised classification	Accounting treatment
Amortised cost	FVTPL	Fair value is measured at reclassification date. Difference between previous amortized cost and fair value is recognised in P&L.
FVTPL	Amortised Cost	Fair value at reclassification date becomes its new gross carrying amount. EIR is calculated based on the new gross carrying amount.
Amortised cost	FVTOCI	Fair value is measured at reclassification date. Difference between previous amortised cost and fair value is recognised in OCI. No change in EIR due to reclassification.
FVTOCI	Amortised cost	Fair value at reclassification date becomes its new amortised cost carrying amount. However, cumulative gain or loss in OCI is adjusted against fair value. Consequently, the asset is measured as if it had always been measured at amortised cost.
FVTPL	FVTOCI	Fair value at reclassification date becomes its new carrying amount. No other adjustment is required.
FVTOCI	FVTPL	Assets continue to be measured at fair value. Cumulative gain or loss previously recognized in OCI is reclassified to P&L at the reclassification date.

2.9.5 Offsetting of financial instruments

Financial assets and financial liabilities are offset and the net amount is reported in the consolidated balance sheet if there is a currently enforceable legal right to offset the recognised amounts and there is an intention to settle on a net basis, to realise the assets and settle the liabilities simultaneously.

2.9.6 Cash & Cash equivalents

Cash and cash equivalent in the balance sheet comprise cash at banks and on hand and short-term deposits with an original maturity of three months or less, which are subject to an insignificant risk of changes in value. For the purpose of the consolidated statement of cash flows, cash and cash equivalents consist of cash and short-term deposits, as defined above, net of outstanding bank overdrafts as they are considered an integral part of the company's cash management.

2.10 Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

Current tax is the amount of income taxes payable (recoverable) in respect of the taxable profit (tax loss) for a period. Taxable profit differs from “profit before income tax” as reported in the statement of profit or loss and other comprehensive income because it excludes items of income or expense that are taxable or deductible in other years and it further excludes items that are never taxable or deductible. The company’s liability for current tax is calculated using tax rates that have been enacted or substantively enacted by the end of the reporting period.

Deferred tax liabilities are generally recognised for all taxable temporary differences. Deferred tax assets are generally recognised for all deductible temporary difference to the extent that it is probable that taxable profits will be available against which those deductible temporary differences can be utilised. Such assets and liabilities are not recognised if the temporary difference arises from goodwill or from the initial recognition (other than in a business combination) of other assets and liabilities in a transaction that affects neither the taxable profit nor the accounting profit.

Deferred tax liabilities are recognised for taxable temporary differences associated with investments in subsidiaries and associates, except where the company is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax assets arising from deductible temporary differences associated with such investments and interests are only recognised to the extent that it is probable that there will be sufficient taxable profits against which to utilise the benefits of the temporary differences.

The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent that it is no longer probable that sufficient taxable profits will be available to allow all or part of the asset to be recovered. Unrecognised deferred tax assets are reassessed at the end of each reporting year and are recognised to the extent that it has become probable that sufficient taxable profit will be available to allow all or part of the deferred tax asset to be recovered.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the period in which the liability is settled or the asset is realised, based on tax rate (and tax laws) that have been enacted or substantively enacted by the end of the reporting period.

The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the company expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

Current and deferred tax are recognised in profit or loss, except when they relate to items that are recognised in other comprehensive income or directly in equity, in which case, the current and deferred tax are also recognised in other comprehensive income or directly in equity respectively. Where current tax or deferred tax arises from the initial accounting for a business combination, the tax effect is included in the accounting for the business combination.

2.11 Employee Benefits

2.11.1 Short-term Benefits

Short-term employee benefits are employee benefits (other than termination benefits) that are expected to be settled wholly before twelve months after the end of the annual reporting period in which the employees render the related service.

All short term employee benefits are recognized in the period in which the services are rendered by employees.

2.11.2 Post-employment benefits and other long term employee benefits

2.11.2.1 *Defined contributions plans*

A defined contribution plan is a post-employment benefit plan under which the company pays fixed contribution into fund maintained by a separate and the company will have no legal or constructive obligation to pay further amounts. Obligations for contributions to defined contribution plans are recognised as an employee benefit expense in the statement of profit and loss in the periods during which services are rendered by employees.

2.11.2.2 *Defined benefits plans*

A defined benefit plan is a post-employment benefit plan other than a defined contribution plan. Gratuity, leave encashment are defined benefit plans (with ceilings on benefits). The company's net obligation in respect of defined benefit plans is calculated by estimating the amount of future benefit that employees have earned in return of their service in the current and prior periods. The benefit is discounted to determine its present value and reduced by the fair value of plan assets, if any. The discount rate is based on the prevailing market yields of Indian Government securities as at the reporting date that have maturity dates approximating the terms of the company's obligations and that are denominated in the same currency in which the benefits are expected to be paid.

The application of actuarial valuation involves making assumptions about discount rate, expected rates of return on assets, future salary increases, mortality rates etc. Due to the long term nature of these plans, such estimates are subject to uncertainties. The calculation is performed at each balance sheet by an actuary using the projected unit credit method. When the calculation results in to the benefit to the company, the recognised asset is limited to the present value of the economic benefits available in the form of any future refunds from the plan or reduction in future contributions to the plan. An economic benefit is available to the company if it is realisable during the life of the plan, or on settlement of plan liabilities.

Re-measurement of the net defined benefit liability, which comprise actuarial gain and losses considering the return on plan assets (excluding interest) and the effects of the assets ceiling (if any, excluding interest) are recognised immediately in the other comprehensive income. The company determines the net interest expense (income) on the net defined benefit liability (asset) for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period to the then net defined benefit liability (asset), taking into account any changes in the net defined benefit liability (asset) during the period as a result of contributions and benefit payments. Net interest expense and other expenses related to defined benefit plans are recognised in profit and loss.

When the benefits of the plan are improved, the portion of the increased benefit relating to past service by employees is recognised as expense immediately in the statement of profit and loss.

2.11.3 Other Long Terms

Other long-term employee benefits are all employee benefits other than short-term employee benefits, post-employment benefits and termination benefits.

Other long-term employee benefits include items which are not expected to be settled wholly before twelve months after the end of the annual reporting period in which the employees render the related service.

For other long-term employee benefits, net total of the following amounts is recognized in the statement of profit or loss:

- (a) Service cost
- (b) Net interest on the net defined benefit liability (asset)
- (c) Re-measurements of the net defined benefit liability (asset)

2.12 Foreign Currency

The company's reported currency and the functional currency for majority of its operations is in Indian Rupees (INR) being the principal currency of the economic environment in which it operates.

Transactions in foreign currencies are converted into the reported currency of the company using the exchange rate prevailing at the transaction date. Monetary assets and liabilities denominated in foreign currencies outstanding at the end of the reporting period are translated at the exchange rates prevailing as at the end of reporting period. Exchange differences arising on the settlement of monetary assets and liabilities or on translating monetary assets and liabilities at rates different from those at which they were translated on initial recognition during the period or in previous financial statements are recognised in statement of profit and loss in the period in which they arise.

Non-monetary items denominated in foreign currency are valued at the exchange rates prevailing on the date of transactions.

2.13 Inventories

2.13.1 Stores & Spares

The Stock of stores & spare parts (which also includes loose tools) at central & area stores are considered as per balances appearing in priced stores ledger and are valued at cost calculated on the basis of weighted average method. The inventory of stores & spare parts lying at collieries / sub-stores / drilling camps/ consuming centres are considered at the year end only as per physically verified stores and are valued at cost.

Provisions are made at the rate of 100% for unserviceable, damaged and obsolete stores and spares and at the rate of 50% for stores & spares not moved for 5 years.



2.13.2 Other Inventories

However, Stock of stationery are not considered in inventory considering their value not being significant.

2.14 Provisions, Contingent Liabilities & Contingent Assets

Provisions are recognized when the company has a present obligation (legal or constructive) as a result of a past event, and it is probable that an outflow of economic benefits will be required to settle the obligation and a reliable estimate of the amount of the obligation can be made. Where the time value of money is material, provisions are stated at the present value of the expenditure expected to settle the obligation.

All provisions are reviewed at each balance sheet date and adjusted to reflect the current best estimate.

Where it is not probable that an outflow of economic benefits will be required, or the amount cannot be estimated reliably, the obligation is disclosed as a contingent liability, unless the probability of outflow of economic benefits is remote. Possible obligations, whose existence will only be confirmed by the occurrence or non-occurrence of one or more future uncertain events not wholly within the control of the company, are also disclosed as contingent liabilities unless the probability of outflow of economic benefits is remote.

Contingent Assets are not recognised in the financial statements. However, when the realisation of income is virtually certain, then the related asset is not a contingent asset and its recognition is appropriate.

2.15 Earnings per share

Basic earnings per share are computed by dividing the net profit after tax by the weighted average number of equity shares outstanding during the period. Diluted earnings per shares is computed by dividing the profit after tax by the weighted average number of equity shares considered for deriving basic earnings per shares and also the weighted average number of equity shares that could have been issued upon conversion of all dilutive potential equity shares.

2.16 Judgements, Estimates and Assumptions

The preparation of the financial statements in conformity with Ind AS requires management to make estimates, judgements and assumptions that affect the application of accounting policies and the reported amounts of assets and liabilities, the disclosures of contingent assets and liabilities at the date of financial statements and the amount of revenue and expenses during the reported period. Application of accounting policies involving complex and subjective judgements and the use of assumptions in these financial statements have been disclosed. Accounting estimates could change from period to period. Actual results could differ from those estimates. Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimate are recognised in the period in which the estimates are revised and, if material, their effects are disclosed in the notes to the financial statements.

2.16.1 Judgements

In the process of applying the Company accounting policies, management has made the following judgements, which have the most significant effect on the amounts recognised in the financial statements:

2.16.2 Formulation of Accounting Policies

Accounting policies are formulated in a manner that result in financial statements containing relevant and reliable information about the transactions, other events and conditions to which they apply. Those policies need not be applied when the effect of applying them is immaterial.

In the absence of an Ind AS that specifically applies to a transaction, other event or condition, management has used its judgement in developing and applying an accounting policy that results in information that is:

- a)** Relevant to the economic decision-making needs of users and
- b)** Reliable in that financial statements :
 - (i) Represent faithfully the financial position, financial performance and cash flows of the entity;
 - (ii) Reflect the economic substance of transactions, other events and conditions, and not merely the legal form;
 - (iii) Are neutral, i.e. free from bias;
 - (iv) Are prudent; and
 - (v) Are complete in all material respects on a consistent basis

In making the judgement management refers to, and considers the applicability of, the following sources in descending order:

- a)** The requirements in Ind ASs dealing with similar and related issues; and
- b)** The definitions, recognition criteria and measurement concepts for assets, liabilities, income and expenses in the Framework.

In making the judgement, management considers the most recent pronouncements of International Accounting Standards Board and in absence thereof those of the other standard-setting bodies that use a similar conceptual framework to develop accounting standards, other accounting literature and accepted industry practices, to the extent that these do not conflict with the sources in above paragraph.

The group operates in the mining sector (a sector where the exploration, evaluation, development production phases are based on the varied topographical and geominig terrain spread over the lease period running over decades and prone to constant changes), the accounting policies whereof have evolved based on specific industry practices supported by research committees and approved by the various regulators owing to its consistent application over the last several decades. In the absence of specific accounting literature, guidance and standards in certain specific areas which are in the process of evolution. The group continues to strive to develop accounting policies in line with the development of accounting literature



and any development therein shall be accounted for prospectively as per the procedure laid down above more particularly in Ind AS 8.

The financial statements are prepared on going concern basis using accrual basis of accounting

2.16.3 Materiality

Ind AS applies to items which are material. Management uses judgement in deciding whether individual items or groups of item are material in the financial statements. Materiality is judged by reference to the nature or magnitude or both of the item. The deciding factor is whether omitting or misstating or obscuring an information could individually or in combination with other information influence decisions that primary users make on the basis of the financial statements. Management also uses judgement of materiality for determining the compliance requirement of the Ind AS. Further, the Company may also be required to present separately immaterial items when required by law.

W.e.f 01.04.2019 Errors/omissions discovered in the current year relating to prior periods are treated as immaterial and adjusted during the current year, if all such errors and omissions in aggregate does not exceed 1% of total revenue from Operation (net of statutory levies) as per the last audited financial statement of the company.

2.16.3.1 Estimates and assumptions

The key assumptions concerning the future and other key sources of estimation uncertainty at the reporting date, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year, are described below. The Group based its assumptions and estimates on parameters available when the financial statements were prepared. Existing circumstances and assumptions about future developments, however, may change due to market changes or circumstances arising that are beyond the control of the Group. Such changes are reflected in the assumptions when they occur.

2.16.3.2 Impairment of non-financial assets

There is an indication of impairment if, the carrying value of an asset or cash generating unit exceeds its recoverable amount, which is the higher of its fair value less costs of disposal and its value in use. Group considers individual mines as separate cash generating units for the purpose of test of impairment. The value in use calculation is based on a DCF model. The cash flows are derived from the budget for the next five years and do not include restructuring activities that the Group is not yet committed to or significant future investments that will enhance the asset's performance of the CGU being tested. The recoverable amount is sensitive to the discount rate used for the DCF model as well as the expected future cash-inflows and the growth rate used for extrapolation purposes. These estimates are most relevant to other mining infrastructures. The key assumptions used to determine the recoverable amount for the different CGUs, are disclosed and further explained in respective notes.

2.16.3.3 Taxes

Deferred tax assets are recognised for unused tax losses to the extent that it is probable that taxable profit will be available against which the losses can be utilised. Significant management judgement is required to determine the amount of deferred tax assets that can

be recognised, based upon the likely timing and the level of future taxable profits together with future tax planning strategies. Further details on taxes are disclosed in Note 38.

2.16.3.4 *Defined benefit plans*

The cost of the defined benefit plan and other post-employment medical benefits and the present value of the obligations are determined using actuarial valuations. An actuarial valuation involves making various assumptions that may differ from actual developments in the future. These include the determination of the discount rate, future salary increases and mortality rates.

Due to the complexities involved in the valuation and its long-term nature, a defined benefit obligation is highly sensitive to changes in these assumptions. All assumptions are reviewed at each reporting date. The parameter most subject to change is the discount rate. In determining the appropriate discount rate for plans operated in India, the management considers the interest rates of government bonds in currencies consistent with the currencies of the post-employment benefit obligation.

The mortality rate is based on publicly available mortality tables of the country. Those mortality tables tend to change only at interval in response to demographic changes.

2.16.3.5 *Fair value measurement of financial instruments*

When the fair values of financial assets and financial liabilities recorded in the balance sheet cannot be measured based on quoted prices in active markets, their fair value is measured using valuation techniques including the DCF model. The inputs to these models are taken from observable markets where possible, but where this is not feasible, a degree of judgement is required in establishing fair values. Judgements include considerations of inputs such as liquidity risk, credit risk and volatility. Changes in assumptions about these factors could affect the reported fair value of financial instruments.

**NOTE – 38 ADDITIONAL NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR
ENDED 31st March, 2022.**

1. Fair Value Measurement

(a) Financial Instruments by Category

(₹ in Crore)

	31 st March 2022		31 st March 2021	
	FVTPL	Amortised cost	FVTPL	Amortised cost
Financial Assets				
Investments :		-		-
Preference Share in Subsidiary				
- Equity Component		-		-
- Debt Component				
Mutual Fund/ICD		-		-
Loans		-		-
Deposits & receivable		115.73		122.24
Trade receivables		815.90		892.33
Cash & cash equivalents		160.97		70.82
Other Bank Balances		40.14		122.14
Financial Liabilities		-		-
Borrowings		-		-
Trade payables		150.94		209.66
Security Deposit and Earnest money		96.05		93.71
Other Liabilities		56.48		73.55

(b) Fair value hierarchy

Table below shows Judgements and estimates made in determining the fair values of the financial instruments that are (a) recognized and measured at fair value and (b) measured at amortised cost and for which fair values are disclosed in the financial statements. To provide an indication about the reliability of the inputs used in determining fair value, the group has classified its financial instruments into the three levels prescribed under the accounting standard. An explanation of each level follows underneath the table.

(₹ in Crore)

Financial assets and liabilities measured at fair value	31 st March 2022			31 st March 2021		
	Level I	Level II	Level III	Level I	Level II	Level III
Financial Assets at FVTPL						
Investments :	-	-	-	-	-	-
Mutual Fund/ICD	-	-	-	-	-	-
Financial Liabilities						
If any item	-	-	-	-	-	-

(₹ in Crore)

Financial assets and liabilities measured at amortised cost for which fair values are disclosed.	31 st March 2022			31 st March 2021		
	Level I	Level II	Level III	Level I	Level II	Level III
Financial Assets at FVTPL						
Investments :			-			-
Preference Shares						
- Equity Component						
- Debt Component						
- Other Investments			-			-
Loans			-			-
Deposits, receivable			115.73			122.24
Trade receivables			815.90			892.33
Cash & cash equivalents			160.97			70.82
Other Bank Balances			40.14			122.14
Financial Liabilities			-			-
Borrowings			-			-
Trade payables			150.94			209.66
Security Deposit and Earnest money			96.05			93.71
Other Liabilities			56.48			73.55

Level 1: Level 1 hierarchy includes financial instruments measured using quoted prices. This includes mutual funds that have quoted price and are valued using the closing NAV.

Level 2: The fair value of financial instruments that are not traded in an active market is determined using valuation techniques which maximize the use of observable market data and rely as little as possible on entity-specific estimates. If all significant inputs required to fair value an instrument are observable, the instrument is included in level 2.

Level 3: If one or more of the significant inputs is not based on observable market data, the instrument is included in level 3. This is the case for unlisted equity securities, preference shares borrowings, security deposits, loans, trade receivables, cash and cash equivalents and other liabilities/assets taken included in level 3.

(c) Valuation technique used in determining fair value

Valuation techniques used to value financial instruments include:

- The use of quoted market prices (NAV) of instruments in respect of investment in Mutual Funds

(d) Fair value measurements using significant unobservable inputs

At present there are no fair value measurements using significant unobservable inputs.

(e) Fair values of financial assets and liabilities measured at amortised cost

- The carrying amounts of trade receivables, short term deposits, cash and cash equivalents, trade payables are considered to be the same as their fair values, due to their short-term nature.
- The Company considers that the Security Deposits does not include a significant financing component. The security deposits coincide with the company's performance and the contract requires amounts to be retained for reasons other than the provision of finance. The withholding of a specified percentage of each milestone payment is intended to protect the interest of the company, from the contractor failing to adequately complete its obligations under the contract. Accordingly, transaction cost of Security deposit is considered as fair value at initial recognition and subsequently measured at amortised cost.

Significant estimates: The fair value of financial instruments that are not traded in an active market is determined using valuation techniques. The Company uses its judgment to select a method and makes suitable assumptions at the end of each reporting period.

2. FINANCIAL RISK MANAGEMENT

Financial risk management objectives and policies

The Company principal financial liabilities, comprise trade and other payables. The main purpose of these financial liabilities is to finance the Company operations and to provide guarantees to support its operations. The Company principal financial assets include loans, trade and other receivables, and cash and cash equivalents that is derived directly from its operations.

The Company is exposed to market risk, credit risk and liquidity risk. The Company senior management oversees the management of these risks. The Company senior management is supported by a risk committee that advises, inter alia, on financial risks and the appropriate financial risk governance framework for the Company. The risk committee provides assurance to the Board of Directors that the Company financial risk activities are governed by appropriate policies and procedures and that financial risks are identified, measured and managed in accordance with the Company policies and risk objectives. The Board of Directors reviews and agrees policies for managing each of these risks, which are summarized below.

This note explains the sources of risk which the entity is exposed to and how the entity manages the risk and the impact of hedge accounting in the financial statements

Risk	Exposure arising from	Measurement	Management
Credit Risk	Cash and Cash equivalents, trade receivables financial asset measured at amortised cost	Ageing analysis/ Credit Analysis	Department of public enterprises (DPE guidelines), diversification of bank deposits credit limits and other securities
Liquidity Risk	Borrowings and other liabilities	Periodic cash flows	Availability of committed credit lines and borrowing facilities
Market Risk-foreign exchange	Future commercial transactions, recognized financial assets and liabilities not denominated in INR	Cash flow forecast sensitivity analysis	Regular watch and review by senior management and Audit Committee.
Market Risk-interest rate	Cash and Cash equivalents, Bank deposits and mutual funds	Cash flow forecast sensitivity analysis	Department of public enterprises (DPE guidelines), Regular watch and review by senior management and audit committee.

The Company risk management is carried out by the board of directors as per DPE guidelines issued by Government of India. The board provides written principals for overall risk management as well as policies covering investment of excess liquidity.

- A. Credit Risk:** Credit risk arises when a counterparty defaults on contractual obligations resulting in financial loss to the company.

Provision for Expected credit loss: Company provides for expected credit risk loss for doubtful/ credit impaired assets, by lifetime expected credit losses (Simplified approach). Refer Note - 13, Trade Receivables.

Significant estimates and judgements Impairment of financial assets

The impairment provisions for financial assets disclosed above are based on assumptions about risk of default and expected loss rates. The Company uses judgement in making these assumptions and selecting the inputs to the impairment calculation, based on the Company past history, existing market conditions as well as forward looking estimates at the end of each reporting period.

B. Liquidity Risk

Prudent liquidity risk management implies maintaining sufficient cash and marketable securities and the availability of funding through an adequate amount of committed credit facilities to meet obligations when due. Due to the dynamic nature of the underlying businesses, group treasury maintains flexibility in funding by maintaining availability under committed credit lines.

Management monitors forecasts of the Company liquidity position (comprising the undrawn borrowing facilities) and cash and cash equivalents on the basis of expected cash flows. This is generally carried out at local level in the operating companies of the group in accordance with practice and limits set by the Company.

C. Market risk**a) Foreign currency risk**

Foreign currency risk arises from future commercial transactions and recognised assets or liabilities denominated in a currency that is not the Company's functional currency (INR). The Company is exposed to foreign exchange risk arising from foreign currency transactions. Foreign exchange risk in respect of foreign operation is considered to be insignificant. The Company also imports and risk is managed by regular follow up. Company has a policy which is implemented when foreign currency risk becomes significant.

b) Cash flow and fair value interest rate risk.

The Company main interest rate risk arises from bank deposits with change in interest rate exposes the Company to cash flow interest rate risk. Company policy is to maintain most of its deposits at fixed rate.

Company manages the risk using guidelines from Department of public enterprises (DPE), diversification of bank deposits credit limits and other securities.

Capital management

The company being a government entity manages its capital as per the guidelines of Department of investment and public asset management under ministry of finance.

Capital Structure of the company is as follows:

(₹ in Crore)

	31.03.2022	31.03.2021
Equity Share capital	142.80	142.80
Preference share capital	NIL	NIL
Long term debt	NIL	NIL

3. Employee Benefits: Recognition and Measurement (Ind AS-19)**Defined Benefit Plans:****a) Gratuity**

The Company provides for gratuity, a post-employment defined benefit plan ("the Gratuity Scheme") covering the eligible employees. The Gratuity Scheme is fully funded through trust maintained with Life Insurance Corporation of India, wherein employer contribution is 2.01% of basic salary and Dearness allowances. Every employee who has rendered continuous service of more than 5 years or more is entitled to receive gratuity amount equal to 15 days salary for each completed years of service computed as (15 days/26 days in a month* last drawn salary and dearness allowance* completed years of service) subject to maximum of Rs 0.20 crores at the time of separation from the company considering the provisions of the Payment of Gratuity Act 1972 as amended. The liability or asset recognized in the balance sheet in respect of the Gratuity Scheme is the present value of the defined benefit obligation at the end of the reporting period less the fair value of plan assets. The defined benefit obligation is calculated at each reporting date by actuary using the projected unit credit method. Re-measurement gains and losses arising from experience adjustments and changes in actuarial assumptions are recognized in the year in which they occur, directly in other comprehensive income (OCI).

b) Post-Retirement Medical Benefit – Executive (CPRMSE)

Company has post-retirement medical benefit scheme known as Contributory Post Retirement Medicare Scheme for Executive of CIL and its Subsidiaries (CPRMSE), to provide Medicare to the executives and their spouses in Company hospital/empaneled hospitals or outpatient/Domiciliary only in India subject to ceiling limit, on account of retirement on attaining the age of superannuation or are separated by the Company on medical ground or retirement under Voluntary Retirement Scheme under common coal cadre or Voluntary Retirement Scheme formulated and made applicable from time to time. Membership is not extended to the executives who resigns from the services of the CIL and its subsidiaries. The maximum amount reimbursable during the entire life for the retired executives and spouse taken together jointly or severally is Rs 25 lakhs except for specified diseases with no upper limit. The Scheme is funded through trust maintained by the CIL at group level solely for this purpose. The liability for the scheme is recognised based on actuarial valuation done at each reporting date.

c) Post-Retirement Medical Benefit – Non Executive (CPRMS -NE):

As a part of social security scheme under wage agreement, Company is providing Contributory Post-Retirement Medicare Scheme for non-executives (CPRMSE-NE) to provide medical care to the non-executives and their spouses and Divyang Child(ren) in Company hospital/empaneled hospitals or outpatient/Domiciliary only in India subject to ceiling limit, on account of retirement on attaining the age of superannuation or are separated by the Company on medical ground or retirement under Voluntary Retirement Scheme formulated and made applicable from time to time or resigns from the company at the age of 57 Years or above or on death to the spouse and Divyang Child(ren). The maximum amount reimbursable during the entire life for the retired non-executives, spouse and Divyang Child(ren) taken together jointly or severally is Rs 8 lakhs except for specified diseases with no upper limit. The Scheme is funded through trust maintained by the CIL at group level solely for this purpose. The liability for the scheme is recognised based on actuarial valuation done at each reporting date.

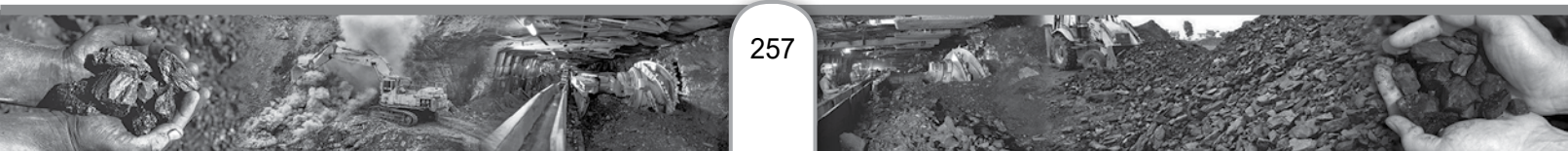
Defined Contribution Plans:

a) Provident Fund and Pension

Company pays fixed contribution towards Provident Fund and Pension Fund at pre-determined rates based on a fixed percentage of the eligible employee's salary i.e. 12% and 7% of Basic salary and Dearness Allowance towards Provident Fund and Pension Fund respectively. These funds are governed by a separate statutory body under the control of Ministry of Coal, Government of India, named Coal Mines Provident Fund Organisation (CMPFO). The contribution towards the fund for the period is recognized in the Statement of Profit & Loss

b) CIL Executive Defined Contribution Pension Scheme (NPS)

The company provides a post-employment contributory pension scheme to the executives of the Company known as "CIL Executive Defined Contribution Pension Scheme -2007" (NPS). NPS is being administered through separate trust at group level solely formed for the purpose. The obligation of the Company is to contribute to the trust to the extent of amount not exceeding 30% of basic pay and dearness allowance less employer's contribution towards provident fund, gratuity, post-retirement medical benefits -Executive i.e. CPRMSE or any other retirement benefits. The current employer contribution of 6.99% of basic and Dearness Allowance is being charged to statement of profit and loss.



Other Long Term Employee Benefits:

a) Leave encashment

The company provides benefit of total Earned Leave (EL) of 30 days and Half Paid Leave (HPL) of 20 days to the executives of the company, accrued and credited proportionately on half yearly basis on the first day of January and July of every year. During the service, 75% EL credited balance is one time encashable in each calendar year subject to ceiling of maximum 60 days EL encashment. Accumulated HPL is not permitted for encashment during the period of service. On superannuation, EL and HPL together is considered for encashment subject to the overall limit of 300 days without commutation of HPL. In case of non-executives, Leave encashment is governed by the National Coal Wage Agreement (NCWA) and at present the workmen are entitled to get encashment of earned leave at the rate of 15 days per year and on discontinuation of service due to death, retirement, superannuation and VRS, the balance leave or 150 days whichever is less, is allowed for encashment. Therefore, the liabilities for earned leave are expected to be settled during the service as well as after the retirement of employee. They are therefore measured as the present value of expected future payments to be made in respect of services provided by employees up to the end of the reporting period using the projected unit credit method. The benefits are discounted using the market yields at the end of the reporting period that have terms approximating to the terms of the related obligation. The liability under the scheme is borne by the Company as per actuarial valuation at each reporting date.

b) Life Cover Scheme (LCS)

As a part of social security scheme under wage agreement, the Company has Life Cover Scheme under Deposit Linked Insurance Scheme, 1976 notified by the Ministry of Labour, Government of India, known as "Life Cover Scheme of Coal India Limited" (LCS). An amount of Rs 1,25,000 is paid under the scheme w.e.f 01.10.2017. The expected cost of the benefits is recognised when an event occurs that causes the benefit payable under the scheme.

c) Settlement Allowances

As a part of wage agreement, a lump sum amount of Rs 12000/- is paid to all the non-executive cadre employees governed under NCWA on their superannuation on or after 31.10.2010 as settling-in allowance. The liability under the scheme is borne by the Company as per actuarial valuation at each reporting date.

d) Group Personal Accident Insurance (GPAIS)

Company has taken group insurance scheme from United India Insurance Company Limited to cover the executives of the company against personal accident known as "Coal India Executives Group Personal Accident Insurance Scheme" (GPAIS). GPAIS covers all types of accident on 24 hour basis worldwide. Premium for the scheme is borne by the Company.

e) Leave Travel Concession (LTC)

As a part of wage agreement, Non-executive employees are entitled to travel assistance for visiting their home town and for "Bharat Bhraman" once in a block of 4 years. A lump sum amount of Rs 8000/- and Rs 12000/- is paid for visiting Home town and "Bharat Bhraman", respectively. The liability for the scheme is recognised based on actuarial valuation at each reporting date.

Funding status of defined benefit plans and other long term employee benefits plans are as under:

(i) Funded-

- Gratuity
- Leave Encashment
- Post-Retirement Medical Benefit - Executive (CPRMSE)
- Post-Retirement Medical Benefit - Non Executive (CPRMSE-NE)

(ii) Unfunded

- Life Cover Scheme
- Settlement Allowance
- Group Personal Accident Insurance
- Leave Travel Concession

Total liability as on 31.03.2022 based on valuation made by the Actuary, details of which are mentioned below.

(₹ in Crore)

Head	Opening Actuarial Liability as on 01.04.2021	Incremental Liability during the Year	Closing Actuarial Liability as on 31.03.2022
Gratuity	177.85	(14.99)	162.86
Leave Executive	82.02	(1.00)	81.02
Leave Non-Executive	22.48	(2.48)	20.00
Life Cover Scheme	0.66	(0.66)	0.00
Settlement Allowance Executives	2.68	1.27	3.95
Settlement Allowance Non-executives	0.85	(0.35)	0.50
Group Personal Accident Insurance Scheme	0.05	(0.05)	0.00
Leave Travel Concession	2.89	(1.11)	1.78
Medical Benefits Executives	91.31	(3.22)	88.09
Medical Benefits Non-Executives	12.82	13.84	26.66
Total	393.61	(8.76)	384.85

(iii) Disclosure as per Actuary's Certificate

The disclosures as per actuary's certificate for employee benefits for Gratuity (funded) and Leave Encashment are given below: -

**ACTUARIAL VALUATION OF GRATUITY LIABILITY AS AT 31.03.2022
CERTIFICATES AS PER IND AS 19 (2015)**

Table 1:

(₹ In Crores)

31.03.2021	A. Profit & Loss (P&L)	31.03.2022
14.73	Current service cost	14.87
-	Past service cost - plan amendments	-
-	Curtailment cost / (credit)	-
-	Settlement cost / (credit)	-
14.73	Service cost	14.87
7.83	Net interest on net defined benefit liability / (asset)	5.64
-	Immediate recognition of (gains)/losses – other long term employee benefit plans	-
22.56	Cost recognised in P&L	20.51

(₹ In Crores)

31.03.2021	B: Other Comprehensive Income (OCI)	31.03.2022
12.83	Actuarial (gain)/loss due to DBO experience	(11.37)
(3.75)	Actuarial (gain)/loss due to DBO assumption changes	0.72
9.08	Actuarial (gain)/loss arising during period	(10.65)
0.43	Return on plan assets (greater)/less than discount rate	(0.18)
9.51	Actuarial (gains)/ losses recognized in OCI	(10.83)

(₹ in Crores)

31.03.2021	C: Defined Benefit Cost	31.03.2022
14.73	Service cost	14.87
7.83	Net interest on net defined benefit liability / (asset)	5.64
9.51	Actuarial (gains)/ losses recognized in OCI	(10.83)
-	Immediate recognition of (gains)/losses – other long term employee benefit plans	-
32.07	Defined Benefit Cost	9.67

(₹ in Crores)

31.03.2021	D: Assumptions as at	31.03.2022
N/A	Discount Rate	6.85%
N/A	Rate of salary increase	Executive: 9% Non-Executive: 6.25%

Table 2:

(₹ in Crores)

31.03.2021	A: Development of Net Balance Sheet Position	31.03.2022
-177.85	Defined benefit obligation (DBO)	-162.86
70.03	Fair value of plan assets (FVA)	96.35
-107.82	Funded status [surplus/(deficit)]	- 66.51
-	Effect of Asset ceiling	-
-107.82	Net defined benefit asset/ (liability)	- 66.51

(₹ in Crores)

31.03.2021	B: Reconciliation of Net Balance Sheet Position	31.03.2022
-127.75	Net defined benefit asset/ (liability) at end of prior period	-107.82
-14.73	Service cost	-14.87
-7.83	Net interest on net defined benefit liability/ (asset)	-5.64
-9.51	Amount recognised in OCI	10.83
52.00	Employer contributions	50.00
-	Benefit paid directly by the Company	0.99
-	Acquisitions credit/ (cost)	-
-	Divestitures	-
-	Cost of termination benefits	-
-107.82	Net defined benefit asset/ (liability) at end of current period	- 66.51

(₹ in Crores)

31.03.2021	C: Assumptions as at:	31.03.2022
6.85%	Discount Rate	6.80%
Executive: 9%	Rate of salary increase	Executive: 9%
Non Executive: 6.25%		Non Executive : 6.25%

Table 3:

(₹ In Crores)

31.03.2021	A: Change in Defined Benefit Obligation (DBO)	31.03.2022
170.20	DBO at end of prior period	177.85
14.73	Current service cost	14.87
10.74	Interest cost on the DBO	11.14
-	Curtailment (credit)/ cost	-
-	Settlement (credit)/ cost	-
-	Past service cost - plan amendments	-

-	Acquisitions (credit)/ cost	-
12.83	Actuarial (gain)/loss - experience	-11.36
-	Actuarial (gain)/loss - demographic assumptions	-
-3.75	Actuarial (gain)/loss - financial assumptions	0.72
-	Benefits paid directly by the Company	-0.99
-26.90	Benefits paid from plan assets	-29.37
177.85	DBO at end of period	162.86

(₹ In Crores)

31.03.2021	B: Change in Fair Value of Assets	31.03.2022
42.45	Fair value of assets at end of prior period	70.03
-	Acquisition adjustment	-
2.91	Interest income on plan assets	5.50
52	Employer contributions	50
-0.43	Return on plan assets greater/(lesser) than discount rate	0.19
-26.90	Benefits paid	-29.37
70.03	Fair Value of assets at the end of current period	96.35

Table 4: Additional Disclosure Information

(₹ in Crores)

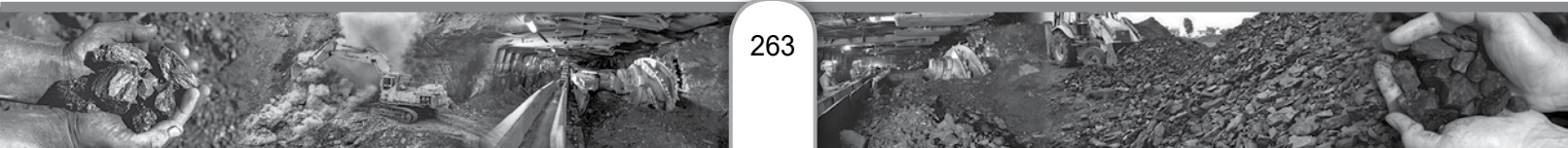
A. Expected benefit payments for the year ending	
March 31, 2023	22.46
March 31, 2024	17.53
March 31, 2025	22.25
March 31, 2026	17.10
March 31, 2027	12.53
March 31, 2028 to March 31, 2032	44.02
Beyond 10 years	252.29
B. Expected employer contributions for the period ending 31 March 2023	4.90
C. Weighted average duration of defined benefit obligation	9 Years
D. Accrued Benefit Obligation at 31 March 2022	118.60
E. Plan Asset Information as at 31 March 2022	Percentage
Government of India Securities (Central and State)	0.00%
High quality corporate bonds (including Public Sector Bonds)	0.00%
Equity shares of listed companies	0.00%
Property	0.00%

Cash (including Special Deposits)	0.00%
Schemes of insurance - conventional products	100.00%
Schemes of insurance - ULIP products	0.00%
Other	0.00%
F. Current and Non-Current Liability Breakup as at 31 March 2022	
Current Liability	21.73
Non-Current Liability	141.12
Liability as at 31 March 2022	162.86

Table 5: Disclosure Item

Sensitivity Analysis	31.03.2022
Discount Rate	Increase
Discount Rate as at 31 March 2022	6.80%
Effect on DBO due to 0.5% increase in discount rate	-6.91
Percentage Impact	-4%
Effect on DBO due to 0.5% decrease in discount rate	7.61
Percentage Impact	5%

Salary Escalation Rate	Increase
Salary Escalation Rate as at 31st March 2022	Executive: 9% Non - Executive : 6.25%
Effect on DBO due to 0.5% increase in salary escalation rate	3.53
Percentage Impact	2%
Effect on DBO due to 0.5% decrease in salary escalation rate	-3.42
Percentage Impact	-2%



**ACTUARIAL VALUATION OF LEAVE BENEFIT SCHEME AS AT 31.03.2022
CERTIFICATES AS PER IND AS 19 (2015)**

Table 1:

(₹ In Crores)

31.03.2021	A. Profit & Loss (P&L)	31.03.2022
5.69	Current service cost	15.18
-	Past service cost - plan amendments	-
-	Curtailment cost / (credit)	-
-	Settlement cost / (credit)	-
5.69	Service cost	15.18
5.86	Net interest on net defined benefit liability / (asset)	2.81
20	Immediate recognition of (gains)/losses – other long term employee benefit plans	-4.21
31.55	Cost recognised in P&L	13.78

(₹ In Crores)

31.03.2021	B: Other Comprehensive Income (OCI)	31.03.2022
22.99	Actuarial (gain)/loss due to DBO experience	-4.71
-2.95	Actuarial (gain)/loss due to DBO assumption changes	0.59
20.04	Actuarial (gain)/loss arising during period	-4.13
-0.04	Return on plan assets (greater)/less than discount rate	-0.08
-	Actuarial (gains)/ losses recognized in OCI	-

(₹ In Crores)

31.03.2021	C: Defined Benefit Cost	31.03.2022
5.69	Service cost	15.18
5.86	Net interest on net defined benefit liability / (asset)	2.81
-	Actuarial (gains)/ losses recognized in OCI	-
20	Immediate recognition of (gains)/losses – other long term employee benefit plans	-4.21
31.55	Defined Benefit Cost	13.78

(₹ in Crores)

31.03.2021	D: Assumptions as at	31.03.2022
N/A	Discount Rate	6.85%
N/A	Rate of salary increase	Executive: 9% Non-Executive: 6.25%



Table 2:

(₹ In Crores)

31.03.2021	A: Development of Net Balance Sheet Position	31.03.2022
-104.50	Defined benefit obligation (DBO)	-101.02
17.04	Fair value of plan assets (FVA)	92.75
-87.47	Funded status [surplus/(deficit)]	-8.27
-	Effect of Asset ceiling	-
-87.47	Net defined benefit asset/ (liability)	-8.27

(₹ In Crores)

31.03.2021	B: Reconciliation of Net Balance Sheet Position	31.03.2022
-98.15	Net defined benefit asset/ (liability) at end of prior period	-87.47
-5.69	Service cost	-15.19
-5.87	Net interest on net defined benefit liability/ (asset)	-2.81
-20.00	Actuarial (losses)/ gains	4.21
42.24	Employer contributions	72.00
-	Benefit paid directly by the Company	20.97
-	Acquisitions credit/ (cost)	-
-	Divestitures	-
-	Cost of termination benefits	-
-87.47	Net defined benefit asset/ (liability) at end of current period	-8.27

(₹ in Crores)

31.03.2021	C: Assumptions as at:	31.03.2022
6.85%	Discount Rate	6.80%
Executive: 9% Non-Executive: 6.25%	Rate of salary increase	Executive: 9% Non-Executive: 6.25%

Table 3:

(₹ In Crores)

31.03.2021	A: Change in Defined Benefit Obligation (DBO)	31.03.2022
98.15	DBO at end of prior period	104.50
5.69	Current service cost	15.18
5.86	Interest cost on the DBO	6.44
-	Curtailment (credit)/ cost	-
-	Settlement (credit)/ cost	-

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-	Past service cost - plan amendments	-
-	Acquisitions (credit)/ cost	-
22.99	Actuarial (gain)/loss - experience	-4.72
-	Actuarial (gain)/loss - demographic assumptions	-
-2.95	Actuarial (gain)/loss - financial assumptions	0.59
-	Benefits paid directly by the Company	-20.97
-25.24	Benefits paid from plan assets	-
104.50	DBO at end of period	101.02

(₹ In Crores)

31.03.2021	B:Change in Fair Value of Assets	31.03.2022
-	Fair value of assets at end of prior period	17.04
-	Acquisition adjustment	-
-	Interest income on plan assets	3.63
42.24	Employer contributions	72
0.04	Return on plan assets greater/(lesser) than discount rate	0.08
-25.24	Benefits paid	-
17.04	Fair Value of assets at the end of current period	92.75

Table 4: Additional Disclosure Information

(₹ in Crores)

A. Expected benefit payments for the year ending	
March 31, 2023	8.27
March 31, 2024	8.13
March 31, 2025	11.09
March 31, 2026	10.51
March 31, 2027	6.27
March 31, 2028 to March 31, 2032	29.55
Beyond 10 years	225.16
B. Expected employer contributions for the period ending 31 March 2023	
	16.41
C. Weighted Average Duration of Defined Benefit Obligation	
	12 Years
D. Accrued Benefit Obligation at 31 March 2022	
	50.15
E. Plan Asset Information as at 31 March 2022	
	Percentage
Government of India Securities (Central and State)	0.00%
High quality corporate bonds (including Public Sector Bonds)	0.00%
Equity shares of listed companies	0.00%
Property	0.00%

Cash (including Special Deposits)	0.00%
Schemes of insurance - conventional products	100.00%
Schemes of insurance - ULIP products	0.00%
Other	0.00%
F. Current and Non-Current Liability Breakup as at 31 March 2022	
Current Liability	8.01
Non-Current Liability	93.01
Liability as at 31 March 2022	101.02

Table 10: Disclosure Item

(₹ in Crores)

Sensitivity Analysis	31.03.2022
Discount Rate	Increase
Discount Rate as at 31 March 2022	6.80%
Effect on DBO due to 0.5% increase in discount rate	-5.60
Percentage Impact	-6%
Effect on DBO due to 0.5% decrease in discount rate	6.23
Percentage Impact	6%

Salary Escalation Rate	Increase
Salary Escalation Rate as at 31st March 2022	Executive: 9% Non - Executive : 6.25%
Effect on DBO due to 0.5% increase in salary escalation rate	6.10
Percentage Impact	6%
Effect on DBO due to 0.5% decrease in salary escalation rate	-5.54
Percentage Impact	-5%

**ACTUARIAL VALUATION OF POST RETIREMENT MEDICAL BENEFIT AS AT
31.03.2022**

CERTIFICATES AS PER IND AS 19 (2015)

Table 1:

(₹ In Crores)

31.03.2021	A. Profit & Loss (P&L)	31.03.2022
-	Current service cost	1.28
-	Past service cost - plan amendments	13.51
-	Curtailment cost / (credit)	-
-	Settlement cost / (credit)	-

-	Service cost	14.80
-	Net interest on net defined benefit liability / (asset)	4.33
-	Immediate recognition of (gains)/losses – other long term employee benefit plans	-
-	Cost recognised in P&L	19.12

(₹ In Crores)

31.03.2021	B: Other Comprehensive Income (OCI)	31.03.2022
-	Actuarial (gain)/loss due to DBO experience	-15.12
-	Actuarial (gain)/loss due to DBO assumption changes	7.19
-	Actuarial (gain)/loss arising during period	-7.93
-	Return on plan assets (greater)/less than discount rate	-7.89
-	Actuarial (gains)/ losses recognized in OCI	-15.82

(₹ In Crores)

31.03.2021	C: Defined Benefit Cost	31.03.2022
-	Service cost	14.80
-	Net interest on net defined benefit liability / (asset)	4.33
-	Actuarial (gains)/ losses recognized in OCI	-15.82
-	Immediate recognition of (gains)/losses – other long term employee benefit plans	-
-	Defined Benefit Cost	3.30

31.03.2021	D: Assumptions as at:	31.03.2022
N/A	Discount Rate	6.85%
N/A	Medical Inflation Rate	0.00%

Table 2:

(₹ In Crores)

31.03.2021	A: Development of Net Balance Sheet Position	31.03.2022
-	Defined benefit obligation (DBO)	-114.75
-	Fair value of plan assets (FVA)	67.86
-	Funded status [surplus/(deficit)]	-46.89
-	Effect of Asset ceiling	-
-	Net defined benefit asset/ (liability)	-46.89

(₹ In Crores)

31.03.2021	B: Reconciliation of Net Balance Sheet Position	31.03.2022
-	Net defined benefit asset/ (liability) at end of prior period	-62.42
-	Service cost	-14.80
-	Net interest on net defined benefit liability/ (asset)	-4.33
-	Amount recognised in OCI	15.82
-	Employer contributions	18.83
-	Benefit paid directly by the Company	-
-	Acquisitions credit/ (cost)	-
-	Divestitures	-
-	Cost of termination benefits	-
-	Net defined benefit asset/ (liability) at end of current period	-46.89

31.03.2021	C: Assumptions as at:	31.03.2022
-	Discount Rate	6.80%
-	Medical Inflation Rate	0.00%

Table 3:

(₹ In Crores)

31.03.2021	A: Change in Defined Benefit Obligation (DBO)	31.03.2022
-	DBO at end of prior period	104.13
-	Current service cost	1.29
-	Interest cost on the DBO	7.69
-	Curtailment (credit)/ cost	-
-	Settlement (credit)/ cost	-
-	Past service cost - plan amendments	13.51
-	Acquisitions (credit)/ cost	-
-	Actuarial (gain)/loss - experience	-15.12
-	Actuarial (gain)/loss - demographic assumptions	6.63
-	Actuarial (gain)/loss - financial assumptions	0.56
-	Benefits paid directly by the Company	-
-	Benefits paid from plan assets	-3.94
-	DBO at end of current period	114.75

(₹ In Crores)

31.03.2021	B: Change in Fair Value of Assets	31.03.2022
-	Fair value of assets at end of prior period	41.71
-	Acquisition adjustment	-
-	Interest income on plan assets	3.37
-	Employer contributions	18.83
-	Return on plan assets greater/(lesser) than discount rate	7.89
-	Benefits paid	-3.94
-	Fair Value of assets at the end of current period	67.86

Table 4: Additional Disclosure Information

(₹ in Crores)

A. Expected benefit payments for the year ending	
March 31, 2023	8.83
March 31, 2024	8.64
March 31, 2025	8.89
March 31, 2026	9.18
March 31, 2027	9.32
March 31, 2028 to March 31, 2032	46.70
Beyond 10 years	173.16
Weighted average duration of defined benefit obligation	10 years
Accrued Benefit Obligation at 31 March 2022	114.75

Table 10: Disclosure Item

Sensitivity Analysis	31.03.2022
Discount Rate	Increase
Discount Rate as at 31 March 2022	6.80%
Effect on DBO due to 0.5% increase in discount rate	-5.40
Percentage Impact	-5%
Effect on DBO due to 0.5% decrease in discount rate	5.91
Percentage Impact	5%

4. Unrecognised Items:

a) Contingent Liabilities (Ind AS-37)

Claims against the Company not acknowledged as debts (including interest, wherever applicable)

(a1)

(₹ in Crore)

SI No.	Particulars	Central Government	State Government and other localities	CPSE	Others	Total
1	Opening as on 01.04.2021	54.32			3.54	57.86
2	Addition during the period	115.18			1.08	116.26
3	Claims settled during the period	0			0.38	0.38
	a. From opening balance	0			0.38	0.38
	b. Out of addition during the period ended	0			0	0
	c. Total claims settled during the period ended (a+b)	0			0.38	0.38
4	Closing as on 31.03.2022	169.50			4.24	173.74

Contingent Liability

(₹ in Crore)

SI. No.	Particulars	Amount as on 31.03.2022	Amount as on 31.03.2021
1	Central Government Income Tax Central Excise Clean Energy Cess Central Sales Tax Service Tax Others(Please Specify) Sub-Total	100.47 69.03 169.50	45.45 8.87 54.32
2	State Government and Local Authorities Royalty Environment Clearance Sales Tax/VAT Entry Tax Electricity Duty MADA Others(Please Specify) Sub-Total		

3	Central Public Sector Enterprises Arbitration Proceedings Suit against the company under litigation Others(Please Specify) Sub-Total		
4	Others: (If any) Miscellaneous Sub-Total	4.24 4.24	3.54 3.54
	Grand Total	173.74	57.86

b) Commitments (Ind AS-37)

Estimated amount of contracts remaining to be executed on capital account not provided for others is ₹ 6.58 Crores (₹ 8.17 Crores).

Other Commitments amounts to ₹ 152.18 Crores (₹ 386.96 Crores).

c) Guarantee

The Company has given Bank Guarantees of ₹ 0.14 Crore (₹ 0.14 Crore) for which there is a floating charge on Current Assets of the Company.

5. Other Information

(a) Provisions

The position and movement of various provisions except those relating to employee benefits which are valued actuarially, as on 31.03.2022 are given below:

(₹ in Crore)

Provisions	Opening Balance as on 1.04.2021	Addition for the period ended 31.03.2022	Write back/ Adj. For the period ended 31.03.2022	Unwinding of discounts	Closing Balance as on 31.03.2022
Note 1:-Property, Plan and Equipment: Impairment of Assets :					
Note 2:- Capital Work in Progress : Against CWIP :					
Note 3:- Exploration And Evaluation Assets : Provision and Impairment:					
Note 1:- Non Current Assets Held For Sale: Provision :					
Note 8:- Loans : Other Loans :					
Note 9:- Other Financial Assets: Current Account with Subsidiaries : Claim receivables : Other Receivables :	0.04				0.04



Note 10:- Other Non-Current Assets : Exploratory Drilling Work : Against Security Deposit for Utilities:					
Note 11:- Other Current Assets : Advances for Revenue : Advance Payment Against Statutory Dues: Other Deposits: Other Receivables:	0.20 0.05				0.20 0.05
Note 12:-Inventories : Stock of Coal : Stock of Stores & Spares :	0.16				0.16
Note 13:-Trade Receivables : Provision for bad & doubtful debts :	4.48		1.13		3.35
Note 21 :- Non-Current & Current Provision: Performance related pay : NCWA: Executive Pay Revision: Mine Closure: NPS:	63.25 0.00 7.28	48.69 7.20 0.77	27.48 0.00 3.84		84.46 7.20 4.21

b) Authorised Share Capital)

Particulars	As on 31.03.22	As on 31.03.21
15,00,000 Equity Shares of ₹1000/- each	150.00	150.00

c) Earnings per share (Ins AS-33)

(₹ in Crore)

Sl. No.	Particulars	For the year ended 31.03.2022	For the year ended 31.03.2021
i)	Net profit after tax in Rupees (Crores) attributable to Equity Share Holders	282.12	316.96
ii)	Weighted Average no. of Equity Shares Outstanding	1428000	1428000
iii)	Basic and Diluted Earnings per Share in Rupees (Face value ₹ 1000- per share)	1975.63	2219.61

d) Related Party Disclosure (Ins AS-24)

(A) List of Related Parties

i) Subsidiary Companies

- 1) Eastern Coalfields Limited (ECL)
- 2) Bharat Coking Coal Limited (BCCL)
- 3) Central Coalfields Limited (CCL)
- 4) Western Coalfields Limited (WCL)

- 5) South Eastern Coalfields Limited (SECL)
- 6) Northern Coalfields Limited (NCL)
- 7) Mahanadi Coalfields Limited (MCL)
- 8) Coal India Limited (CIL)

ii) Post Employment Benefit Fund and others:

- 1) Coal India Employees Gratuity Fund
- 2) Coal Mines Provident Fund (CMPF)
- 3) Coal India Superannuation Benefit Fund Trust
- 4) Contributory Post Retirement Medicare Scheme for Non- Executives Modified
- 5) CIL Executive Defined Contribution Pension Trust

iii) Key Managerial Personnel

Name	Designation	W.e.f
Manoj Kumar	Chairman-Cum-Managing Director	04.10.2021
B. Veera Reddy	Director	24.02.2022
R N Jha	Director Technical	30.01.2019
A.K Rana	Director Technical	01.08.2019 to 28.02.2022
Satendra Kumar Gomasta	Director Technical	25.02.2020
Krishna Chandra Pandey	Independent Director	10.07.2019
Alka Panda	Independent Director	10.07.2019
Binay Dayal	Director	09.11.2017 to 31.01.2022
Mukesh Choudhary	Govt. Nominee Director	26.05.2020
Pramod Singh Chauhan	Independent Directors	16.10.2019
P.K Prasad	Chief Financial Officer	01.04.2021
Abhishek Mundhra	Company Secretary	18.02.2016

iv) Remuneration of Key Managerial Personnel

(₹ in Crore)

Sl No.	Remuneration to CMD, Whole Time Directors, CFO and Company Secretary	For the year ended 31.03.2022	For the year ended 31.03.2021
i)	Short Term Employee Benefits		
	Gross Salary	2.17	3.18
	Perquisites & other Benefits	0.58	0.72
	Medical Benefits	0.11	0.12

ii)	Post-Employment Benefits Contribution to P.F. & other fund	0.39	0.49
iii)	Actuarial Valuation of Defined Benefits	1.79	2.24
iv)	Retirement Benefits Leave Encashment Gratuity	0.40 0.20	0.00 0.40
v)	Termination Benefits Leave Encashment Gratuity	NIL	NIL
	TOTAL	5.64	7.15

Note:

- (i) Besides above, whole time Directors have been allowed to use of cars for private journey upto a ceiling of 1000 KMs on payment of ₹2000 per month as per service conditions.

(₹ in Crore)

Sl. No.	Payment to Independent Directors	For the year ended 31.03.2022	For the year ended 31.03.2021
i)	Sitting Fees	0.19	0.17

Balances Outstanding of Sitting Fees.

(₹ in Crore)

Sl. No.	Particulars	As on 31.03.2022	As on 31.03.2021
i)	Amount Payable	Nil	Nil
ii)	Amount Receivable	Nil	Nil

- No Trade or other receivables are due from directors or other officers of the company either severally or jointly with any other person. Nor any trade or other receivable are due from firms or private companies respectively in which any director is a partner, a director or member.

Related Party Transactions within Group

The Company being a Government related entity is exempt from the general disclosure requirements in relation to related party transactions and outstanding balances with the controlling Government and another entity under same Government.

As per Ind AS 24, following are the disclosures regarding nature and amount of significant transactions.

Transactions with Related Parties for the Year Ended 31.03.2022

(₹ in Crore)

Name of Related Parties	Loan to Related Parties	Loan from Related Parties	Apex Charges	Rehabilitation Charges	Lease Rent Income	Interest on Funds parked by subsidiaries	IICM charges	Any Other (Sales)	Current Account Balances (Payable/ Receivable)	Outstanding Balances (Payable/ Receivable)
Eastern Coalfields Limited (ECL)								92.13		106.92
Bharat Coking Coal Limited (BCCL)								56.83		43.05
Central Coalfields Limited (CCL)								135.18		76.52
Western Coalfields Limited (WCL)								154.68		32.77
South Eastern Coalfields Limited (SECL)								322.83		230.09
Northern Coalfields Limited (NCL)								112.31		45.91
Mahanadi Coalfields Limited (MCL)								89.76		33.01
Coal India Limited (CIL)								7.40	53.62	17.46

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED
(A Subsidiary of Coal India Limited)



Transactions with Related Parties for the Year Ended 31.03.2021

(₹ in Crore)

Name of Related Parties	Loan to Related Parties	Loan from Related Parties	Apex Charges	Rehabilitation Charges	Lease Rent Income	Interest on Funds parked by subsidiaries	IICM charges	Any Other (Sales)	Current Account Balances (Payable/ Receivable)	Sales
Eastern Coalfields Limited (ECL)								96.35		52.48
Bharat Coking Coal Limited (BCCL)								85.15		90.65
Central Coalfields Limited (CCL)								134.49		69.46
Western Coalfields Limited (WCL)								133.98		103.98
South Eastern Coalfields Limited (SECL)								351.87		155.69
Northern Coalfields Limited (NCL)								91.48		41.34
Mahanadi Coalfields Limited (MCL)								84.67		37.74
Coal India Limited (CIL)								8.01	56.10	16.38

e) Taxation (Ind AS-12)

(₹ in Crore)

I) Details of Current Tax Assets	As at 31.03.2022	As at 31.03.2021
Tax Deducted at Source & Advance Tax	312.34	197.38
Provision for Income Tax	(253.80)	(172.06)
Current Tax Assets (Net)	58.54	25.32

(f) Provisions made in the Accounts

Provisions made in the accounts against slow moving/non-moving/obsolete stores, claims receivable, advances, doubtful debts etc. are considered adequate to cover possible losses.

(g) Current Assets, Loans and Advances etc.

In the opinion of the Management, assets other than fixed assets and non-current investments have a value on realisation in the ordinary course of business at least equal to the amount at which they are stated.

(h) Current Liabilities

Estimated liability has been provided where actual liability could not be measured.

(i) Balance Confirmations

Balance confirmation/reconciliation is carried out for cash & bank balances, certain loans & advances, long term liabilities and current liabilities. Provision is taken against all doubtful unconfirmed balances.

(j) Value of imports on CIF basis

(₹ in Crore)

Particulars	For the year ended 31.03.2022	For the year ended 31.03.2021
(i) Raw Material	NIL	NIL
(ii) Capital Goods	6.10	16.03
(iii) Stores, Spares & Components & Others	0.23	0

(K) Expenditure incurred in Foreign Currency

(₹ in Crore)

Particulars	For the year ended 31.03.2022	For the year ended 31.03.2021
Travelling Expenses	0.00	0.04
Training Expenses	NIL	NIL
Consultancy Charges	NIL	NIL
Interest	NIL	NIL
Stores and Spares	NIL	NIL
Capital Goods	6.10	16.03
Others	0.23	NIL

(l) Earning in Foreign Exchange:

Particulars	For the year ended 31.03.2022	For the year ended 31.03.2021
Travelling Expenses	NIL	NIL
Training Expenses	NIL	NIL
Consultancy Charges	NIL	NIL
Others	0.03	0.00

m) Total Consumption of Stores and Spares (Refer Note No. 26)

(₹ in Crore)

Particulars	For the year ended 31.03.2022		For the year ended 31.03.2021	
	Amount	% of total consumption	Amount	% of total consumption
(i) Imported Materials	0.00	0.00	0.00	0.00
(ii) Indigenous	33.62	100	21.99	100

(n) Disaggregated revenue information :

(₹ in Crore)

	For the Year ended 31.03.2022	For the Year ended 31.03.2021
Types of goods or service		
- Coal	1208.43	1488.60
- Others	1208.43	1488.60
Total revenue from contracts with customers		

Types of customers		
- Power sector	14.11	6.45
- Non-Power Sector	1194.32	1482.15
- Others or services (CMPDIL)		
Total revenue from contracts with customers	1208.43	1488.60
Types of contract		
- FSA		
- E Auction		
- Others	1208.43	1488.60
Total revenue from contracts with customers	1208.43	1488.60
Total Revenue	1208.43	1488.60
CIL Groups	971.13	985.99
Outsider	237.30	502.61
Timing of goods or service		
- Goods transferred at a point in time		
- Goods transferred over time		
- Service transferred at a point in time	450.31	461.68
- Service transferred over time	758.12	1026.92
Total revenue from contracts with customers	1208.43	1488.60

(o) Ratios

a) Current Ratio

For The year ended 31.03.2022	For the year ended 31.03.2021	Variance
2.69	2.29	(0.40)

The current ratio is a liquidity ratio that measures the current resources to meet its short-term obligations. Current ratio has been calculated as Current Assets divided by Current liabilities.

b) Return on Equity ratio

For The year ended 31.03.2022	For the year ended 31.03.2021	Variance
0.32	0.47	0.15

Return on equity (ROE) is a measure of financial performance calculated by dividing net income by Average shareholders' equity. Where Net Income is Profit after tax for the period, average shareholders' equity = (Opening Equity + Closing Equity)/2. Other Equity excludes Capital Reserve.

c) Trade Receivables Turnover Ratio

For The year ended 31.03.2022	For the year ended 31.03.2021	Variance
1.66	2.42	0.76

The receivables turnover ratio is an accounting measure used to quantify a company's effectiveness in collecting its accounts receivable, or the money owed by customers. Account receivables Turnover = Net Credit Sales/Average trade receivables.

d) Net Capital Turnover ratio

For The year ended 31.03.2022	For the year ended 31.03.2021	Variance
0.96	1.44	0.49

Net Capital turnover is the measure that indicates organization's efficiency in relation to the utilization of capital employed in the business and it has been calculated as a ratio of net sales divided by the average amount of working capital during the same period. Net capital turnover ratio = Net Sales / Working Capital

Net sales shall be calculated as total sales minus sales returns.

Working capital shall be calculated as current assets minus current liabilities.

e) Net Profit Ratio

For The year ended 31.03.2022	For the year ended 31.03.2021	Variance
23.35%	21.29%	(2.05)%

It measures the relationship between net profit and sales of the business.

Net Profit Ratio = Net Profit / Net Sales

Net profit shall be after tax.

Net sales shall be calculated as total sales minus sales returns

f) Return on capital Employed

For The year ended 31.03.2022	For the year ended 31.03.2021	Variance
30.62%	36.47%	5.84%

Return on capital employed indicates the ability of a company's management to generate returns for both the debt holders and the equity holders. Higher the ratio, more efficiently is the capital being employed by the company to generate returns.

ROCE = Earnings before interest and taxes / Capital Employed

Capital Employed = Tangible Net Worth + Total Debt + Deferred Tax Liability

(p) Lease

Vide Notification of Ministry of Corporate Affairs dated 30th March, 2019 Indian Accounting Standard (Ind AS) 116, Leases has become effective for the company from 01.04.2019 replacing Ind AS 17, Leases. The accounting policy on leases has been changed as per Ind AS 116. The principal change of Ind AS 116, Leases is change in the accounting treatment by

lessees of leases currently classified as operating leases. Lease agreements has given rise to the recognition of a right-of-use asset and a lease liability for future lease payments in case of company being lessee.

For calculation of the lease liability recognised in the balance sheet 7.75 % has been used as lessee's incremental borrowing rate.

Lease liability commitment regarding operating lease as on 31.03.2022, discounted using above lessee's incremental borrowing rate were ₹1.48 Crore whereas lease liability as on 31.03.2022 recognised in the Balance sheet is ₹1.31 Crore.

(q) Others

- i) The company is taking continuous measure to combat the adverse impact of COVID 19 and has implemented manifold measures for ease of doing business. The company has considered the possible effects that may arise due to pandemic in the preparation of the financial statements including the recoverability of carrying amounts of financial and non-financial asset as on 31st March 2022. The company will continue to closely monitor any material changes arising out of future economic conditions and the resultant impact on its business.
- ii) **Change in accounting policy**
For better understanding of the users of the financial statements, Significant Accounting Policy has been modified/rephrased in section 2.7 Intangible Assets and 2.11 Employee Benefits and 2.16 Estimates and Assumptions. However, there is no financial impact of the aforesaid change.. However, there is no financial impact of the aforesaid change.
- iii) Significant accounting policy (Note-2) has been drafted to elucidate the accounting policies adopted by the Company in accordance with Indian Accounting Standards (Ind ASs) notified by Ministry of Corporate Affairs (MCA) under the Companies (Indian Accounting Standards) Rules, 2015.
- iv) **Recent Pronouncements** : Ministry of Corporate Affairs ("MCA") notifies new standard or amendments to the existing standards under Companies (Indian Accounting Standards) Rules as issued from time to time. On March 23, 2022, MCA vide GSR 255(E) amended the Companies (Indian Accounting Standards) Amendment Rules, 2022, applicable from April 1st, 2022. The Company has evaluated the amendment and there is no impact on its financial statements."
- v) The financial statements of CMPDIL for the year ended 31.03.2022 are prepared on the basis of SAP after migration from coal net. Figures of year ended 31.03.2021 has been put manually.
- vi) The Company had booked a revenue (Excl. GST) to the tune of Rs.89.51 lakh along with margin- Rs. 6.25 Lakh and Expenditure- Rs.83.27 lakh in FY 2017-18. The said amount was related to a drilling work carried out by Central Drilling Associate in FY 2017-18. The Payment made in this regard was considered as excess payment made to the contractor and matter is being pursued for recovery of the same .The Company is now in the process of filing money suit against the contractor before the appropriate court for its realization.



- vii) Previous year/period's figures have been restated, regrouped and rearranged wherever considered necessary.
- viii) Note-1 and 2 represents Corporate information and Significant Accounting Policies respectively, Note 3 to 23 form part of the Balance Sheet as at 31st March, 2022 and 24 to 37 form part of Statement of Profit & Loss for the period ended on that date. Note - 38 represents Additional Notes to the Financial Statements.

Signature to Note 1 to 37.

(A. Mundhra)
Company Secretary

(P.K Prasad)
General Manager (F)

(S.K. Gomasta)
Director
DIN-08714820

(Manoj Kumar)
Chairman-Cum-
Managing Director
DIN-09225497

In terms of our report of even date attached

For Lodha Patel Wadhwa & Co.

Chartered Accountants
Firm Registration No.006271C

(CA Sanjay Kumar Wadhwa)
Partner
Membership No. 074749

Date: 10th May, 2022

Place: Ranchi