



**Central Mine Planning &
Design Institute Limited**
(A Subsidiary of Coal India Limited)
A Mini Ratna Company (Cat-I)

ANNUAL REPORT & ACCOUNTS

2020-2021



Digging Deeper

Aiming Higher

46th ANNUAL REPORT & ACCOUNTS 2020-2021

46th Annual Report & Accounts

2020-21



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 31.03.2021

EXECUTIVE DIRECTORS



Shri Shekhar Saran

FUNCTIONAL DIRECTORS



Shri R.N. Jha



Shri A.K. Rana



Shri S.K. Gomasta

OFFICIAL PART-TIME DIRECTORS



Shri Binay Dayal



Shri Mukesh Choudhary

INDEPENDENT DIRECTORS



Dr. K.C. Pandey



Smt. Alka Panda



Shri Pramod Singh Chouhan

PERMANENT INVITEE



Shri Ajitesh Kumar

COMPANY SECRETARY



Shri Abhishek Mundhra

MANAGEMENT DURING 2020-2021

Functional Directors

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 Anil Kumar Rana	:	Director (Technical) (From 01.08.2019)
Shri Satendra Kumar Gomasta	:	Director (Technical) (From 25.02.2020)
Shri Kaushlendra Kumar Mishra	:	Director (Technical) (From 11.10.2018 to 31.01.2021)

Part – Time Official Director

Shri Binay Dayal	:	Director (Technical), Coal India Ltd (From 09.11.2017)
Shri Mukesh Choudhary	:	Director (CLD), Ministry of Coal, (From 26.05.2020)
Dr. Anindya Sinha	:	Project Adviser, Ministry of Coal, (From 05.02.2018 to 01.05.2020)

Independent Directors / Part -Time Non-Official Director

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	:	Deputy Secretary, 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 28.07.2021

Functional Directors

Shri Binay Dayal	:	Chairman-cum-Managing Director (Additional Charge) (from 19.07.2021 A/N)
Shri Rabindra Nath Jha	:	Director (Technical)
Shri Anil Kumar Rana	:	Director (Technical)
Shri Satendra Kumar Gomasta	:	Director (Technical)

Official Part-Time Directors

Shri Binay Dayal	:	Director (Technical), Coal India Ltd., Kolkata
Shri Mukesh Choudhary	:	Director (CLD), Ministry of Coal, New Delhi

Non Official Part-Time Directors

Dr. Krishna Chandra Pandey	:	Independent Director
Smt. Alka Panda	:	Independent Director
Shri Pramod Singh Chauhan	:	Independent Director

Permanent Invitee

Shri Ajitesh Kumar	:	Deputy Secretary, 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,
IDBI Bank
Axis Bank Limited
HDFC Bank

Auditors

STATUTORY AUDITOR

M/s LODHA PATEL, WADHWA & Co., Ranchi

SECRETARIAL AUDITOR

M/s Satish Kumar & Associates, Ranchi

COST AUDITOR

M/s M.M & Associates, Delhi

GST AUDITOR

M/s M.M & Associates, Delhi

TAX AUDITOR

M/s LODHA PATEL, WADHWA & Co., Ranchi

DEPOSITORY

M/s. National Security Depository Limited

REGISTRAR & SHARE TRANSFER AGENT

M/s. NSDL Database Management Limited

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NOTICE FOR THE 46TH ANNUAL GENERAL MEETING

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited that the **46th Annual General Meeting** of the Company will be held on **Wednesday, 28th July, 2021 at 10.15 A.M. at Registered Office, Ranchi** through Video Conference/ OAVM to transact the following business: -

A. ORDINARY BUSINESS:

1. To consider and adopt the Audited Balance Sheet as on 31st March 2021, 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. 64.77 Crore (Approx) i.e. Rs.453.57 per share paid on 14,28,000 equity shares of the Company in March 2021 and approve payment of Final Dividend recommended by Board of Rs.30.32 Crores i.e. Rs. 212.33 per Share in July, 2021 on 14,28,000 equity shares thus totaling to Rs. 95.09 Crores as dividend for the Financial Year 2020-21.
3. To appoint a Director in place of Shri R.N Jha (DIN: 05195902), 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 A.K. Rana (DIN: 08531295), 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.

B. SPECIAL BUSINESS:

1. **Ratification of Remuneration of Cost Auditors for the Financial Year 2020-21 and 2021-22 fixed by the Board of Directors.**

To consider and if thought fit, to pass with or without modification(s), the following resolution as an Ordinary Resolution:

To consider and if thought fit, to pass with or without modification(s), the following resolution as an Ordinary Resolution:

“Resolved that the remuneration approved by the Board in its 239th Board meeting, held on 15.09.2020 to the Cost Auditors, M/s MM & Associates, New Delhi for the financial year 2020-21 and 2021-22 at Rs. 6,00,000/- per annum plus applicable taxes for cost audit and ICCS review and out of pocket expenses limited to 50% of total fees be and is hereby ratified.”

The Explanatory Statement pursuant to Section 102(1) of the Companies Act, 2013 in respect of the special business set out above is annexed hereto.

- N.B 1.** 1. In view of the current extraordinary circumstances due to the pandemic caused by Covid 19 prevailing in the Country, in accordance with the provisions of section 108 of the Companies Act, 2013 read with rule 18 of the Companies (Management and Administration) Rules,

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

(A Subsidiary of Coal India Limited)



2014 and with General Circular No. 14/2020 and General Circular 17/2020 dated 8th April, 2020 and 5th May 2020 respectively and General Circular No. 17/2020 dated 13th January 2021, allowed companies to hold their AGM through VC/OAVM. 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 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.

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. However, in 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.

2. 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

(Abhishek Mundhra)
Company Secretary

Date : 22.07.2021

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

Explanatory Statement pursuant to section 102(1) of Companies Act, 2013

Item No. B (I): Ratification of Remuneration of Cost Auditors for the Financial Year 2020-21 and 2021 -22 fixed by the Board of Directors.

The Board of Directors of CMPDIL in its 239th meeting held on 15.09.2020 approved the appointment of M/s MM & Associates, New Delhi post recommendation of the Audit committee for undertaking the cost Audit of the Financial Year 2020-21 and 2021-22 at a fees of Rs. 6,00,000/- per annum plus applicable taxes for Cost audit and ICCS review and out of pocket expenses limited to 50% of total fees. Pursuant to Section 148 of the Companies Act, 2013 read with Rule 14 of the Companies (Audit and Auditors) Rules, 2014, the remuneration of the Cost Auditors recommended by the Audit Committee and approved by the Board of Directors needs to be ratified subsequently by the shareholders in the General meeting.

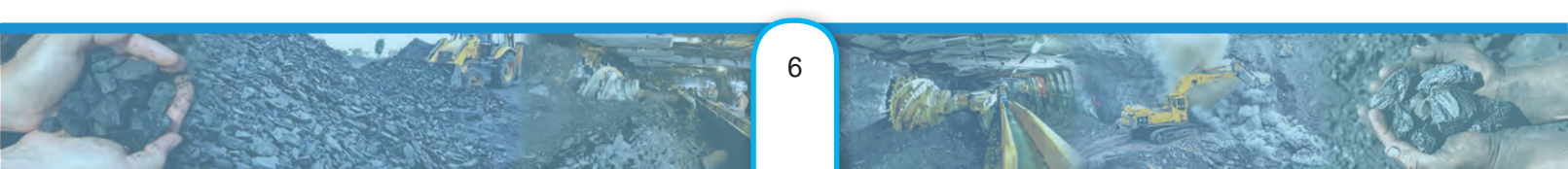
None of the directors and key managerial personnel or their relatives is interested or concerned in the resolution.

The Board recommended the resolution for the approval of the members.

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



(Abhishek Mundhra)
Company Secretary





CHAIRMAN'S STATEMENT

Shri Binay Dayal

Chairman-cum-Managing Director
(Addl.Charge)

Dear Shareholders,

I have great pleasure in extending very warm welcome to all of you to the 46th Annual General Meeting of CMPDIL and present to you the Annual Report of your Company for the financial year 2020-21. The Report of Directors and the Audited Accounts of your Company for the period ended 31st March, 2021 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 of 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

arrangement 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 fuelled 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 04-05 to 2.09 lakh meter in 07-08) 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 metre of drilling in 2016-17 with a growth of 13% over previous year, 13.66 lakh metre of drilling in 2017-18 with a growth of 21% over previous year, achieved 13.60 lakh metre of drilling in 2018-19 and 12.94 lakh metre in 2019-20.

During 2020-21, 12.48 lakh metre of drilling was carried out against the MoU target of 11.00 lakh metre, which is 113% of the target, despite the COVID-19 restrictions and national lockdown, with a CAGR (Cumulative Annualized Growth Rate) in drilling of about 14% over the achievement of 2.06 lakh meter in 2006-07 (end of X Plan period).

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 2020-21, your company has achieved highest turnover of ₹ 1488.60 crore, with a profit before tax of ₹ 414.49 crore (post considering other comprehensive income of ₹ 9.51 crore). The net worth of your company has risen to ₹ 784.47 crores (incl OCI of ₹ 18.68 crores) as on 31.03.2021 from ₹ 570.31 crores (incl OCI of ₹ 25.80 crores) as on 31.03.2020. During the financial year, the earning per share has gone up to ₹ 2219.61 (computed on 14,28,000 shares) from ₹ 1354.27 a year back.

3.0 Drilling and Seismic Survey Performance:

During 2020-21, 12.48 lakh meter of drilling was carried out against the MoU target of 11.00 lakh meter which includes drilling of about 4.85 lakh metre through departmental drills with productivity of 614 metre/drill/month and achievement of 113% of MoU target.

About 295 line km of 2D/3D seismic survey was also carried out in comparison to about 28 line km achieved during 2019-20. Performance of 2D/3D seismic survey was impacted mainly on account of nationwide lockdown due to COVID-19 pandemic, forest clearance and local villagers issues.

About 13.1 Billion Tonnes of additional coal resources have been added to the 'Proved category', through Detailed Exploration covering an area of about 304 sq km and preparation of 26 Geological Reports, which is the highest ever coal resource proved by CMPDIL in a year since its inception.

CMPDIL had entered into a long term MOU with MECL on 6th January, 2009 for offering up to one lakh meter of exploratory drilling per annum to MECL in different coal blocks which has been enhanced to 4.0 lakh meter per annum. Through National / Global tendering, work orders have been placed for 112 blocks to outsourced agencies involving about 44 lakh meters of drilling and about 1967 line km of 2D/3D seismic survey since 2007-08.

4.0 Project Reports:

During the year under review, a total of 33 Project Reports (PRs) have been prepared with capacity addition of about 169 Million tonnes per year. Out of these 33 PRs, 27 PRs are of Opencast Mines and 6 PRs of Underground (UG) Projects. Out of 27 opencast PRS, one PR viz. Amelia OC has been planned for non-CIL mine. The 27 Opencast PRs include four mega opencast projects of CIL (capacity of 10 Mty or more) viz. RGB OC (75 Mty), Ashok Expansion OC (20 Mty), Balbhadra OC (10 Mty) and Khadia Expansion OC (16 Mty). Out of 6 UG projects, 2 PRs have been planned with PSLW technology and 4 PRs with CM technology.

5.0 Upgradation of Laboratories:

Capacities of all the laboratories in CMPDIL have been upgraded. Chemical characterisation laboratories have been upgraded with sophisticated equipment and the capacities have been enhanced. The Coal Characterization Laboratory is implementing its scheme on augmentation of capacity of coal core analysis by introducing automation in sample preparation unit. Addition of rapid analyzers will cater to handling of larger numbers of analysis. The Lab will process around 24000m of coal cores annually when on full operation. The Lab is equipped with sample preparation units, proximate analyzers, ultimate analyzers, Bomb calorimeter, Ash Fusion Temperature Range Analyzer and instrument for determining Swelling Index, LTGK, HGI Crossing point temperature. It has also added 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. The Petrography Lab having the state-of-the-art equipment, is

carrying out analysis to determine the maceral content and reflectance percentage of coal samples. Petrographic studies are imperative for ascertaining the coking nature of coal. It is useful in deciding blends in coke making.

New chemical analytical lab has also been setup at CMPDIL, RI-VII, Bhubaneswar. The Chemical Lab of CMPDIL has entered into an MOU with IIT, Kharagpur for analysis of coal cores for two years, which is in addition to the existing MoU with CSIR -CIMFR 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).

Coal & Mineral Preparation (CMP) Laboratory was granted NABL accreditation in May, 2019 in accordance with ISO/IEC 17025:2017. Accreditation by such recognized body is considered as the first essential step for facilitating mutual acceptance of test results and it is still continuing. NDT Cell of CMPDIL HQ is also accredited with NABL certification which is in accordance with the standard ISO/IEC 17025:2017 for its facilities in the field of 'Testing' in Non-destructive testing (NDT). The NDT Cell of different RIs are also being strengthened with required equipment and resources.

The existing Environment Laboratories have been strengthened with state of the art equipment. Environment labs of CMPDIL (HQ), RI-I, RI-IV, RI-V and RI-VII are accredited by NABL. Efforts are underway for getting NABL accreditation for environmental laboratories of CMPDIL at RI-II and RI-VI. CPCB recognition of Environment Lab of CMPDIL (HQ) has also been obtained.

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 2020-21, 19 nos. of executives have been posted in CMPDIL through transfer. Similarly, 80 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 97 opencast projects, 5 UG mines and 09 clusters of different subsidiaries of CIL coming under different categories has been done during the year 2020-21. Vegetation cover mapping of seven coalfields viz. Umrer and Pench Kanhan Coalfields (WCL); Ib Valley Coalfield (MCL), Mand Raigarh and Sohagpur Coalfields (SECL); Raniganj and Rajmahal Coalfields (ECL) was also carried out during the year 2020-21. Land Use / Cover Mapping of Core and Buffer Zone of 6 opencast projects were carried out during 2020-21

based on satellite data. Land Use / Cover Mapping for the leasehold area of 8 UG projects of SECL was also completed during 2020-21 for compliance with requirement of MoEF & CC.

In new technology adoption, CMPDIL has procured drones for surveying and mapping applications. The first drone has been supplied in December, 2020 equipped with state-of-art LiDAR optical and thermal sensors and second drone was supplied in the last week of March, 2021. 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 has been awarded in March, 2021. Tenders for other subsidiaries will follow soon.

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 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.

CMPDIL has submitted all the NITs for 18 Nos. of Washeries to the respective Subsidiary Companies of CIL. Out of these 18 Washeries, a fresh NIT for Moonidih Washery (2.5 Mtpa) to wash coal at 14% ash level of clean coal has been prepared and submitted to BCCL.

Detailed Study Reports were prepared for renovation of existing Moonidih, Madhuban and Dugda-II washeries of BCCL. Bid documents for renovation work of Rajrappa, Moonidih and Madhuban washery were also prepared. "Report on Coking Coal in CIL Blocks" was prepared in December, 2020 and presentation on the same was made to Secretary (Coal) on 23.12.2020. A 'strategy paper on augmentation of coking coal production and washeries in the country' was also prepared and submitted.

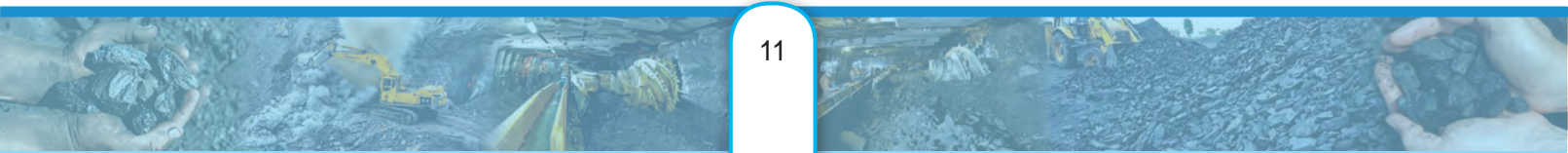
9.0 Environmental Services:

During 2020-21, 40 nos. of EIA/EMPs (Environmental Impact Assessment/Environment Management Plans), including 31 Form-I/Form-IV/Form-VI, were prepared and Environmental Monitoring (air, water and noise) of 311 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 new studies, viz. carrying capacity of coal mining areas, study of riverine eco-system, integrated solid waste management, DPR for smart cities, impact assessment of fly ash disposal and design of vertical greenery system/wind barrier were successfully completed.

Further, CMPDIL is continuing its accreditation as Environmental Impact Assessment (EIA) consulting organization by Quality Council of India (QCI) (a MoEF&CC's designated agency), 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 Areas.



The CBM development in India gained momentum with the announcement of Coal Bed Methane (CBM) Policy in 1997, which laid the foundation of commercial exploitation of CBM in India. Ministry of Petroleum & Natural Gas (MoP&NG) is the administrative Ministry for Govt. of India and Directorate General of Hydrocarbons (DGH) has been made the Nodal Agency for the development of CBM in the country.

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 (i) Jharia CBM Block-I (BCCL area), (ii) Raniganj CBM Block (ECL area) & (iii) 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-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 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 has been received for Jharia CBM Block-I which is under finalization. No bid was received for Raniganj CBM Block. Tender for Sohagpur CBM Block floated later on 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.

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 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 by BCCL and re-tendering is to be done soon.

Our Hon'ble Prime Minister, Shri Narendra Modi's vision is to use 100 MT of coal for coal gasification by 2030. In view of above GOI's directive, for 100 MT Gasification of coal 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 a 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.

11.0 S&T projects and R&D projects:

CMPDIL is the Nodal Agency to coordinate research activities funded under S&T Grant of Ministry of Coal (MoC) and R&D Board of CIL. Besides coordination of R&D works by various academic and research institutes, CMPDIL, with its well-established laboratories, is also undertaking research in key areas of mining industries like coal exploration, development of coal based non-conventional energy resources like Coal Bed Methane (CBM), Coal Mine Methane (CMM), Gasification, Shale gas assessment, Coal Beneficiation & Utilisation and Mine Environment related issues.

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 2020-21, 6 nos. of research projects have been completed. The completed projects pertain to 'Constructing structure on backfilled opencast coal mines: An attempt to suggest viable methodologies; Development of tele-robotics and remote operation technology for underground coal mines', 'Investigation pertaining to geotechnical & hydrogeological aspects to stabilize the non-cohesive granular soil/sand in the opencast mines adjacent to the major perennial river', 'Electronification of ground water control and Conveyor system in mines', 'Multiple layer trial blasting for better recovery with less diluted coal' and 'Optical fiber based solar illumination of pit bottom and underground mine roadways and working face'.

All out 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. 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 high expectation of valuable projects proposals will be submitted by them in coming year.

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) which provides the information related to completed and ongoing research projects and the guidelines for implementing coal research projects with different forms so that anybody can submit proposals in a requisite manner. It also has the lists & outcomes of completed projects and ongoing research projects to have a transparency and to avoid repetitive nature of projects.

At present, there are 37 ongoing research projects. Major research projects are related to 'Reclamation of coal mined land of North Eastern Coalfields, Assam through soil amendment and revegetation with native plant species using integrated biological approach', 'Development

of guidelines for increasing the height of overburden dumps at opencast coal mines in India', 'Development of Virtual Reality Mine Simulator (VRMS) for improving safety and productivity in coal mines', 'Development of suitable Paste Fill material from Fly Ash (Power Plant Reject) and its transportation system to underground coal mines for stabilization of working as an alternative of sand stowing', 'Capacity building for extraction of Coal Mine Methane (CMM) resource within CIL command areas', 'Development of a methodology for regional air quality monitoring in coalfield area using satellite data and ground observations', 'Indigenous Development of Early Warning Radar System for predicating failures/slope instabilities in opencast mines', 'On-Line Coal dust suppression system for opencast mines', 'Assessment of Rare Earth Elements (REE) and other economic resources in Coal & Non-Coal Strata and Characterization of Acid Mine Drainage and its pollution control from the North Eastern Region (NER) Coalfield', 'Forensic investigation related to Geo-technical aspects in order to stabilize the foundation soil of expansive nature and implement suitable ground improvement technology to sustain and enhance the optimum overburden dump height', 'Indigenous Development of Through the Earth (TTE) Two-Way Voice Communication System for Underground Mines', 'Development of an indigenous optical fiber based instrument for measuring in-the-hole Velocity of Detonation [VOD] and analyze the performance of explosive in field condition', 'Effect of Blasting on Opencast Mine Dump and Development of Relationship between Blast Induced Vibration and Dump Design', 'To develop an Artificial Intelligence (AI) based machine learning solutions to enable prediction of occurrence of fire in opencast mines extracting locked coal pillars with safety', etc., which are being executed in association with reputed organizations like IIT-ISM, Dhanbad; IIT, Kharagpur; IIT, Roorkee; IIT, Bombay; CIMFR, Dhanbad; RFRI, Jorhat; CSIRO, Australia; NRSC, Hyderabad; NIT, Nagpur; etc..

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 2020-21 include 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; skill development of unskilled and unemployed youths; distribution of masks & hand sanitizer for containment of COVID-19; organization of specialized medical camps at different locations in Ranchi, Nagpur, Bilaspur, Dhanbad, Asansol & Bhubaneshwar; construction of IPD Block for Community Health Center, Kosla, Odisha; Design and installation of two Water Treatment Plants consisting of Fluoride treatment, RO treatment unit of Capacity 1000 liter per hour each including installation of water vending machine and 5 KW solar plant in Maharashtra; Supply, Installation and Commissioning of 2 sets of Bio-Toilet units for men and women in Maharashtra; Installation of 18 nos. Hand Pumps at different locations of Bhageya Panchayat, Balumath; Dumaro Panchayat, Chandwa, Distt- Latehar (Jharkhand) along with other rural development works near drilling camps..

13.0 Consultancy Services in Management System standards:

CMPDIL is the nodal agency 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, OHSAS 18001, 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 fulfillment of the requirements of the new revised ISO 9001:2015 standard. The present IMS Manual of CMPDIL covers ISO 9001- Quality Management System, ISO 14001- Environment Management System, ISO 27001- Information Security 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 from 18.01.2021 to 17.01.2024.

Under our guidance & support, CIL (HQ) has got certification against ISO 9001:2015, ISO 14001:2015 and ISO 50001:2011 (Quality Management System, Environment Management System and Energy Management System) from Bureau of Indian Standards. Further, the upgradation from ISO 50001:2011 to ISO 50001:2018 has been completed for CIL(HQ). The certification work of ISO 50001:2018 is under process.

As on 31st March 2021, three of CIL subsidiaries, namely ECL, NCL and CCL, have been certified for their companywide Integrated Management System (ISO 9001, ISO 14001 and OHSAS 18001). BCCL, MCL, CCL, NCL, WCL & ECL have completed the documentation work for upgradation from OHSAS 2007 to ISO 45001:2018 under CMPDIL's support and guidance. Certification audit for upgradation from OHSAS 18001 to ISO 45001 have already been conducted in ECL and NCL under the guidance of CMPDIL. The certification / re- certification work is under process in other subsidiaries of CIL.

Further, BCCL HQ is in process of implementing ISO 37001 with the consultancy services of CMPDIL. CMPDIL is also providing support and guidance to BCCL, CCL, MCL and WCL who are next in line for implementing and getting certified for a companywide Integrated Management System (ISO 9001, ISO 14001 and OHSAS 18001/ISO 45001) in the next financial year.

Under outside consultancy services, CMPDIL has been providing consultancy support work for Pakri Barwadi 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). Certification of Pakri Barwadi OC Mine Project has been done, whereas, certification of Talaipalli OC Mine Project is expected during the FY 2021-22.

14.0 Consultancy-other than CIL

During FY 2020-21, 24 outside-CIL consultancy jobs were successfully completed by CMPDIL for 18 organizations outside CIL. Some of the major clients/organizations are Ministry of Coal, THDC India Ltd., NTPC Ltd., JSW Steel Ltd., Singareni Collieries Company Limited (SCCL), NLC India Ltd, IRCON International Ltd., etc.

Presently, 39 outside-CIL consultancy jobs are being executed by CMPDIL for 22 organisations like NTPC Ltd., THDC India Ltd., MOIL Ltd., Singareni Collieries Company Limited (SCCL), Talcher Fertilizers Ltd., NLC India Ltd., SAIL, HINDALCO Industries Ltd., etc.

During the year 2020-21, 33 outside-CIL consultancy jobs worth ₹ 20.15 crore from 23 organizations were obtained by CMPDIL which include consultancy jobs from Ministry of Coal, EMIL Mines and Mineral Resources Ltd., SCCL, NMDC Ltd., NTPC Ltd., Tata Steel Ltd., Jindal Power Ltd., 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 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 and railway sidings. Mine Data Management System Portal (MDMS) Software has been extended to State Nominated Authorities and Private Block Allottees to monitor Non-CIL Coal Blocks.

Online Recruitment Portals for Non-executives for 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 also prepared Roadmap Report on establishing Coal Exchange.

An integrated mobile app “CIL Samvaad” has been developed by CMPDIL for lodging issues by employee of subsidiary / consumers / vendors. This app is user friendly and open to all stake holders. An integrated mobile app “CIL EYE” has also been developed by CMPDIL for monitoring CCTV cameras installed at vulnerable points in CIL subsidiaries.

CMPDIL has also been entrusted with the task of the implementation of e-Office for entire Coal India Limited. The centralized infrastructure and MPLS connectivity have been established at all Subsidiary HQ locations; CIL, New Delhi; CIL HQ, Kolkata; IICM and NEC. E-office is running in all the locations.

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 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 2019-20 is under evaluation.

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,

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED
(A Subsidiary of Coal India Limited)



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.

(Binay Dayal)

Chairman-cum-Managing Director
(Additional Charge)

Place : Ranchi

Date : 28.07.2021



CMPDI LTD

PERFORMANCE AT A GLANCE

₹ in crores

FINANCIAL YEAR	2020-21 (Audited)	2019-20 (Audited)	2018-19 (Audited)
PARTICULARS			
Sale of Services (Net Sales)	1488.60	1381.31	1274.56
Other Income	22.10	21.70	13.01
Total Income	1510.7	1403.01	1287.57
Total expenses	1096.21	1090.39	1023.75
PBT	414.49	312.62	263.82
PAT	316.96	193.39	173.27
Net Block	188.01	182.5	180.39
Current Assets	1414.43	1057.35	959.84
Current Liabilities	617.56	424.63	541.86
Working Capital	796.87	632.72	417.98
Capital Employed *	984.88	815.22	598.37
Equity Capital	142.8	38.08	38.08
Reserve & Surplus	659.45	550.8	428.74
Net Worth**	784.47	570.31	447.95
Return on Capital Employed	42.10	38.37	44.11
EPS	2219.61	1354.27***	1213.38***

*Capital employed = Net Block + Working Capital

**Net Worth = Equity Share capital + Reserve & surplus (Excluding Capita Reserve)

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

Rs. in crores

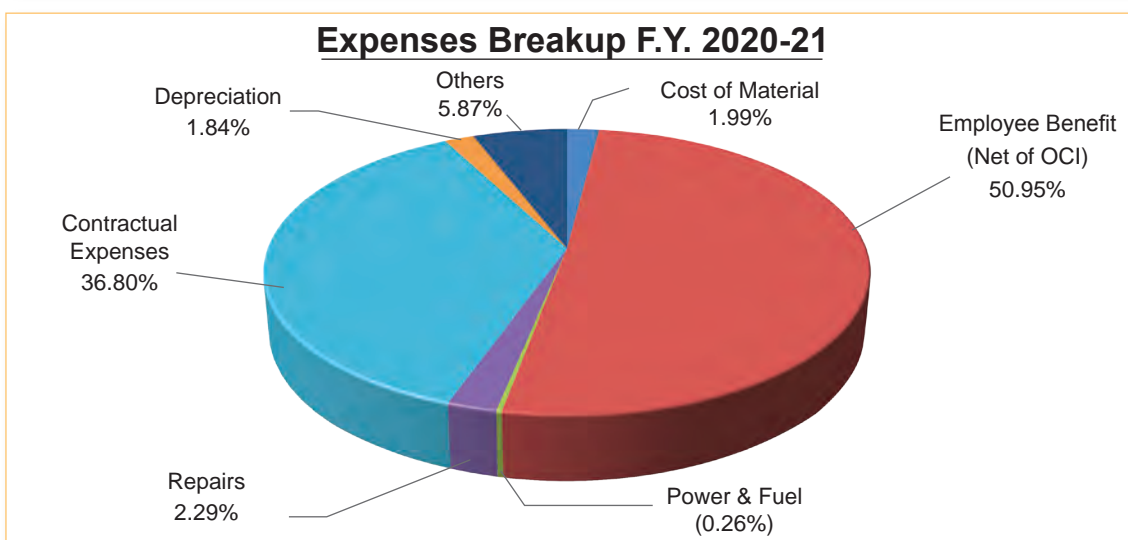
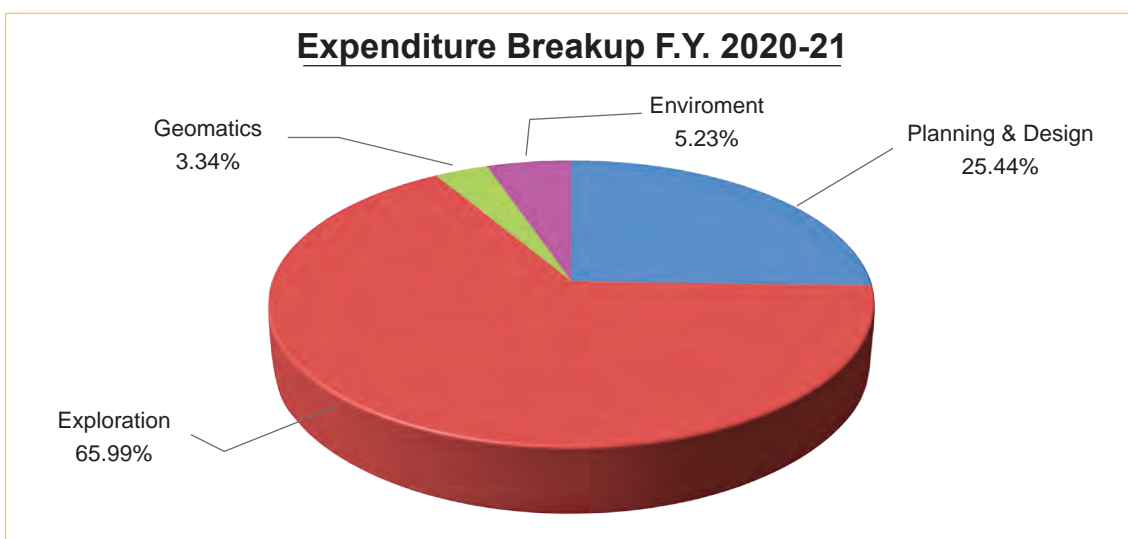
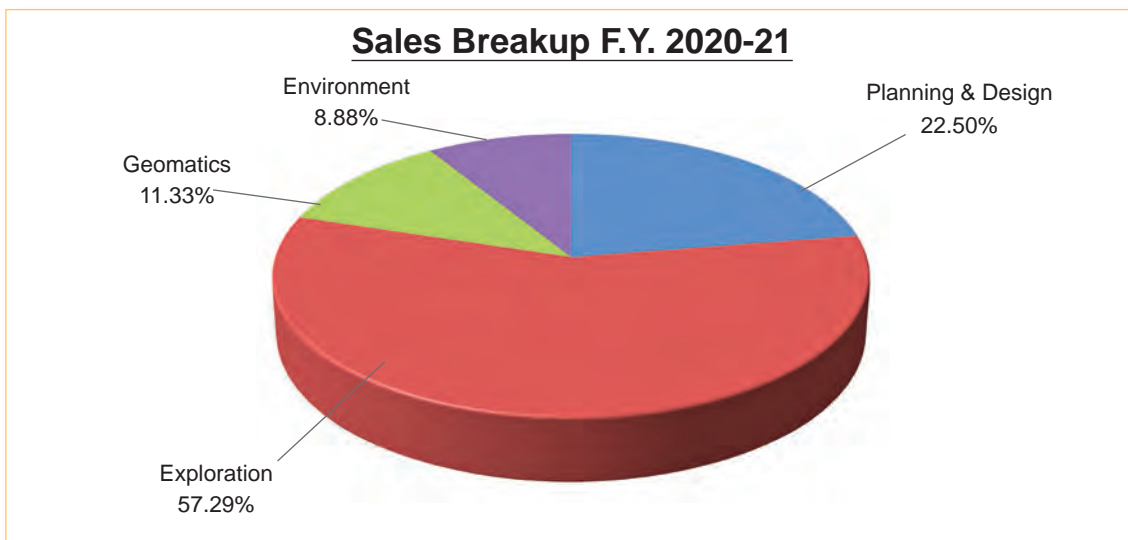
Financial Year	2020-21 (Audited)	2019-20 (Audited)	2018-19 (Audited)
PBT	414.49	312.62	263.82

Rs in crores

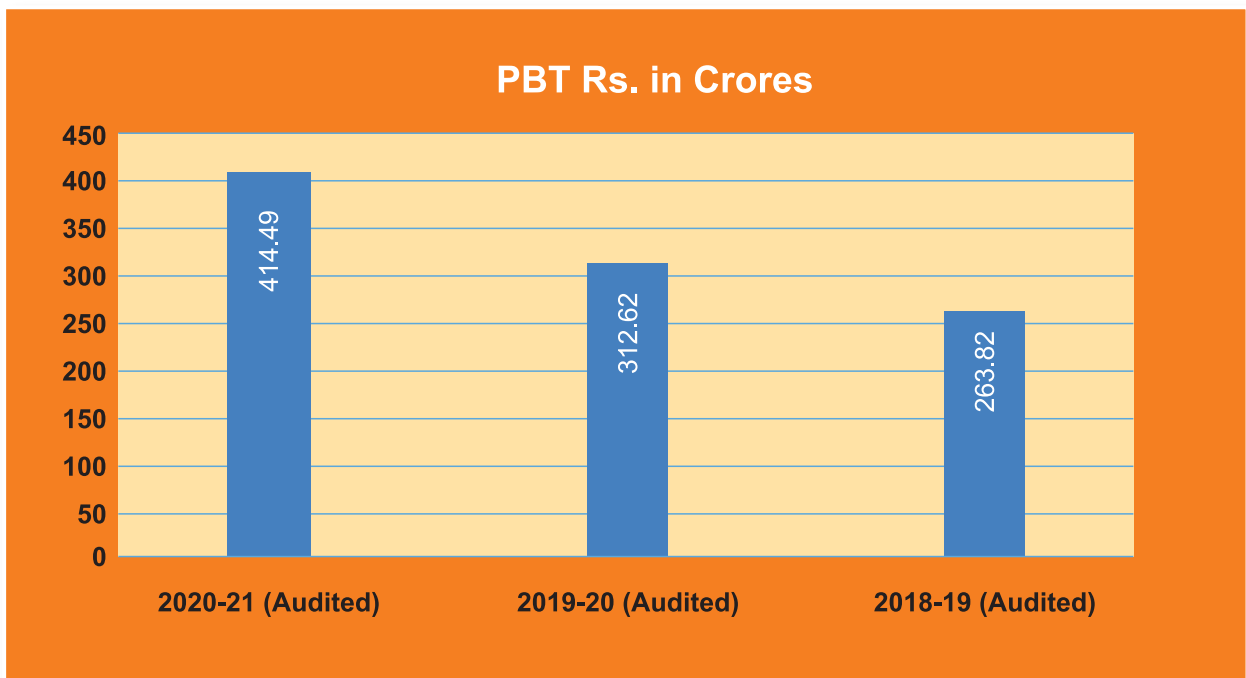
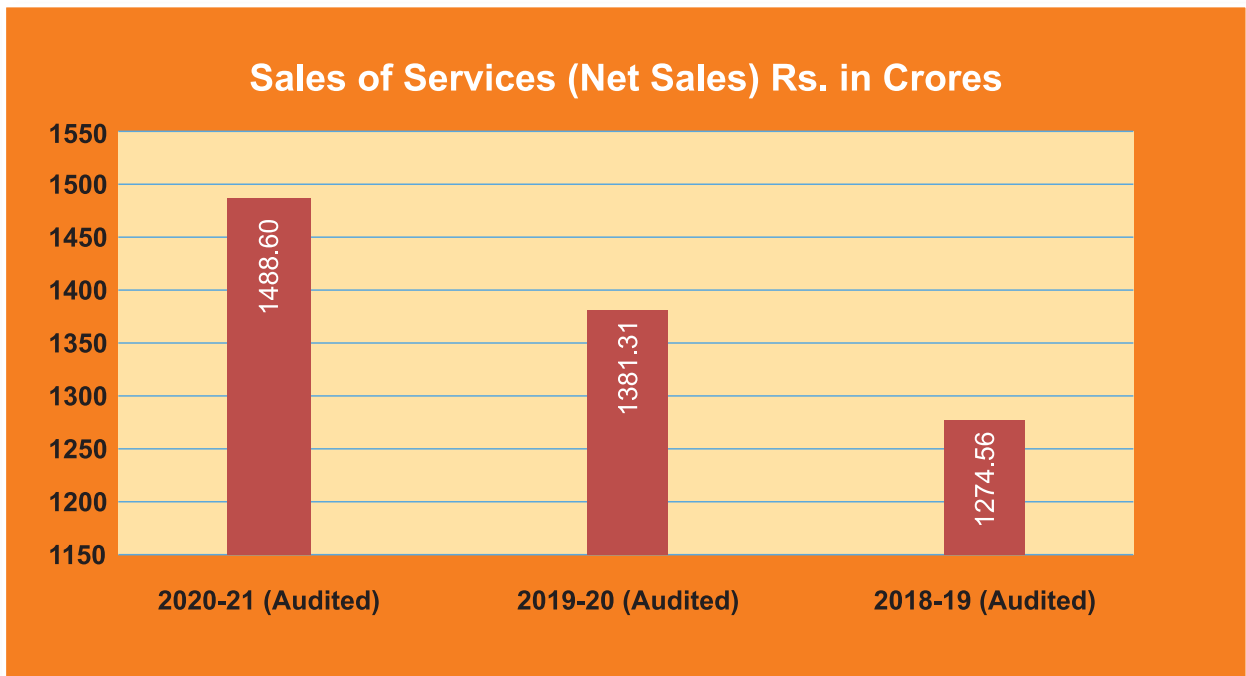
Financial Year	2020-21 (Audited)	2019-20 (Audited)	2018-19 (Audited)
Sale of Services (Net Sales)	1488.60	1381.31	1274.56



FINANCIAL OVERVIEW OF CMPDIL



FINANCIAL OVERVIEW OF CMPDIL



DIRECTORS' REPORT

To
The Shareholders
Gentlemen,

On behalf of the Board of Directors, I have great pleasure in presenting the 46th Annual Report on the working of your Company along with the Accounts for the year ended 31st March, 2021 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.

Presently, 39 outside-CIL consultancy jobs are being executed by CMPDIL for 22 organisations like NTPC Ltd., THDC India Ltd., MOIL Ltd, Singareni Collieries Company Limited (SCCL), Talcher Fertilizers Ltd., NLC India Ltd., SAIL, HINDALCO Industries Ltd. etc.

During the year 2020-21, 33 outside-CIL consultancy jobs worth ₹ 20.15 crore from 23 organizations were obtained by CMPDIL which include consultancy jobs from Ministry of Coal, EMIL Mines and Mineral Resources Ltd. (HINDALCO), SCCL, NMDC Ltd., NTPC Ltd. Tata Steel Ltd., Jindal Power Ltd. 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 ₹ 316.96 Crores. The working results of the company are given below:

(₹ In Crores)

Particulars	Year ending 31.03.2020	Year ending 31.03.2021
Net Sales	1381.31	1488.60
Other Income	21.70	22.10
Total expenses	1090.39	1096.21
Profit Before Tax	312.62	414.49
Tax Expenses	119.23	97.53
Profit After Tax (A)	193.39	316.96
Other Comprehensive Income (OCI)	(8.60)	(9.51)
Income Tax that will be reclassified to Profit or Loss	(2.16)	(2.39)
Total Other Comprehensive Income (B)	(6.44)	(7.12)
Total Comprehensive Income (A) + (B)	186.95	309.84

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. Land reclamation monitoring of opencast mines producing more than 5 million cubic meter (Coal+OB) per annum are being carried out by satellite surveillance on yearly basis, whereas, in respect of opencast mines producing less than 5 million cubic meter (coal+OB) per annum, it is being carried out at three years' interval.
- d. **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 (Quality Management System), ISO 14001 (Environmental Management System), OHSAS 18001 (Occupational Health and Safety Management), SA 8000 (Social Accountability Management), ISO 50001 (Energy Management System), ISO 27001 (Information Security Management System) and ISO 37001 (Anti Bribery Management System). 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.

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. Specialised Services -

Expert consultancy services are also offered in the field of 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, OBR Check Measurement, etc.

1.3.3 Industry Structure and Development

After more than one year into the COVID-19 pandemic, the accumulating human toll continues to raise concerns, even as growing vaccine coverage lifts sentiment. High uncertainty surrounds the global economic outlook, primarily related to the path of the pandemic. The contraction of activity in 2020 was unprecedented

involving memory in its speed and synchronized nature. After an estimated contraction of -3.3 percent in 2020, the global economy is projected to grow at 6 percent in 2021, moderating to 4.4 percent in 2022. Global growth is expected to moderate to 3.3 percent over the medium term-reflecting projected damage to supply potential and forces that predate the pandemic, including aging-related slower labour force growth in advanced economies and some emerging market economies. Thanks to unprecedented policy response, the COVID-19 recession is likely to leave smaller scars than the 2008 global financial crisis. However, emerging market economies and low-income developing countries have been hit harder and are expected to suffer more significant medium-term losses. India, at large, is fighting the second wave of COVID-19 pandemic by tooth and nail and its repercussions cannot be ruled out.

Mining in India is a major economic activity which contributes significantly to the economy of the country. The coal mining and coal-fired thermal power generation sector 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, as on date depend on India's domestic coal industry. Economic activities in three eastern states (Jharkhand, Odisha and Chhattisgarh) are significantly dependent on coal. The sector employs about 5,00,000 people directly and, possibly, the same number indirectly. 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. India currently relies on coal for more than 70% of its power generation and thus its massive domestic reserves of coal will continue to be used. Coal demand in India has increased by more than one-fourth in the last five years and increase in demand has been driven by both, power sector and non-regulated sector. Power sector remains the key consumer segment as coal-fired plants generate 72% of India's electricity. 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 1049 Mt by 2021 (Estimate by Ministry of Coal) and about 1300 to 1900 Mt by 2030 as per Coal Vision 2030 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. However, adverse impact on coal demand is being apparent in the country due to the post COVID-19 lockdown and second wave impact in the consuming units leading to an effort from the government to curtail the import of coal which has been draining out the foreign exchanges and go for the import substitution to the extent possible. Moreover, with the impact of second wave of COVID-19 and the lockdown and opening of the consuming points, the pace of coal demand will increase greatly.

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. The total basinal area of Gondwana Coalfields was estimated to be about 65574 sq km,

out of which, a total of about 31,854 sq km was assessed to be prognosticated coal bearing area. The total regional exploration area measured was about 18636 sq km and 13256 sq km area is left-out for regional exploration. The total basinal area of Tertiary Coalfields was estimated to be 1343 sq km, out of which, a total of 915 sq km was assessed to be prognosticated coal bearing area. The total regional exploration area stands at 456 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 so as 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 7.50 lakh metre drilling along with data acquisition through 2D/3D Seismic Survey of 300 Line km have been proposed for 2021-22 with an aim to have priority on 2D / 3D seismic surveys in exploration in combination with the physical drilling with reduced borehole density due to reduction in fund by the Ministry of Coal prolonged COVID-19 lockdown, difficult geological conditions like increase in average borehole depth beyond 500 metre, non-accessibility of drill sites due to forest land, adverse law & order conditions in some areas and non-availability of suitable outsourced agencies with modern infrastructure.

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., 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. 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 years. However, the changing scenario in the country and the world, particularly which would be during and after the Post-COVID-19, certainly necessitate a relook on the business dynamics of CMPDIL, as well. This also entails a proper study of future market scenario in the coal sector

and possible opportunities for foray in other areas in a major way.

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, parallely, 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.

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 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 with addition of 2D/3D seismic survey, etc.
- (ii) Diversification in newer areas of mineral, mining and allied engineering sectors other than coal,
- (iii) Increasing market share for outside clients,
- (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) 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 1000 mining Project Reports with individual project capacity up to 70 MTY opencast mine and 6 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 continue at least up to 10 to 12 years providing scope for CMPDIL services
- Auction/allotment of coal blocks to captive users - both to public & private companies by the Government have created more market opportunities for CMPDIL outside CIL
- Develop as an agency acting as a service platform providing complete exploration and mining solution
- 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/UCG/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.
- In absence of commensurate growth in the regional exploration, sustenance of the present detailed drilling capacity seems difficult in near future.
- 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 maybe a downward trend in coal mining leading to decrease in the consultancy assignments to CMPDIL.
- 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. CMPDIL could carry out 42.08 lakh meter of drilling during the XII Plan period (2012-17) in comparison to about 19.41 lakh meter of drilling during the XI Plan period (2007-12) and 10 lakh meter of total drilling carried out during the X Plan period (2002-07). 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. Furthermore, with the achievement of 12.48 lakh metre in 2020-21, a CAGR (Cumulative Annualized Growth Rate) in drilling of about 14% over the achievement of 2.06 lakh meter in 2006-07 (end of X Plan period) could be achieved.

About 13.1 Billion Tonnes of additional coal resources have been added to the 'Proved category', through Detailed Exploration covering an area of about 304 sq km and preparation of 26 Geological

Reports, which is the highest ever coal resource proved by CMPDIL in a year since its inception.

CMPDIL has taken up 2D seismic survey on large scale and data acquisition with depth range of about 1000 metre by Vibroseis imported from M/S SERCEL, France. About 295 line km of 2D/3D seismic survey was carried out in comparison to about 28 line km achieved during 2019-20. Performance of 2D/3D seismic survey was impacted mainly on account of nationwide lockdown due to COVID-19 pandemic, forest clearance and local villagers issues.

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.

Government of India has put coal exploration on the fast track. It is envisaged to expedite Regional Exploration of the country and to identify more potential areas for Detailed Exploration. This could be possible only through adoption of modern technologies which will reduce quantum of drilling and make the Geological Models more reliable. The Seismic Survey, widely used in Oil Sector, can be extended to Coal Sector also subject to increased precision in derived results. Apart from it, the aerial geophysical survey would lead to identification of concealed coal bearing sedimentary basin in extension areas of the coal belts. CMPDIL is already in the process of capacity building of exploratory drilling with the involvement of modern improved techniques in drilling. It 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 7.50 lakh metre drilling along with data acquisition in respect of 2D/3D Seismic Survey of 300 Line Km has been proposed for 2020-21, against the achievement of 12.48 lakh metre in 2020-21. Pace of exploration during the last three years has stagnated mainly due to uncertainty in funding for exploration in Non-CIL blocks, adverse law & order condition prevailing in some of the coal block areas, non-receipt of permission for detailed drilling in respect of 105 coal blocks applications pending for forestry permission, etc. CMPDIL had entered into a long term MOU with MECL on 6th January, 2009 for offering up to one lakh metre of exploratory drilling per annum to MECL in different coal blocks which has been enhanced to 4.0 lakh metre per annum. Through National / Global tendering, work orders have been placed for 112 blocks to outsourced agencies involving about 44 lakh metres of drilling and about 1967 line km of 2D/3D seismic survey since 2007-08. Moreover, hindrances in drilling due to adverse law & order and non-receipt of clearance for drilling of forest areas are being vigorously followed up with MoEF&CC and concerned states by CMPDIL, CIL and MoC.

Out of 33 PRs submitted during the year under review, 27 PRs were of Opencast Mines, including 4 for mega projects (capacity 10 Mty or more), and 6 PRs were of UG projects, out of which, 2 PRs have been planned with PSLW technology and 4 PRs with CM technology.

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. New Chemical analysis lab has been setup at CMPDIL, RI-VII, Bhubaneswar. The Geo-Chemical Laboratory has been upgraded with sophisticated imported equipment and the capacities have been enhanced. Coal & Mineral Preparation (CMP) Laboratory was granted NABL accreditation in May, 2019 in accordance with ISO/IEC 17025:2017. NDT Cell of CMPDIL HQ has also been accredited with NABL certification during the year which is in accordance with the standard ISO/IEC 17025:2017 for its facilities in the field of 'Testing' in Non-destructive testing (NDT). The existing Environment Laboratories have been strengthened with state of the art equipment. Environment labs of CMPDIL (HQ), RI-I, RI-IV, RI-V and RI-VII are accredited by NABL. Efforts are underway for getting NABL accreditation for environmental laboratories of CMPDIL at RI-II and RI-VI. CPCB recognition of Environment Lab of CMPDIL (HQ) has also been obtained.

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.

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 procured drones for surveying and mapping applications. The first drone has been supplied in December, 2020 equipped with state-of-art LiDAR optical and thermal sensors and second drone was supplied in the last week of March, 2021. 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.

Technical services are provided to the subsidiary companies of CIL for Greenfield Coal washeries, right from preparation of conceptual reports to award of works and thereafter scrutiny of drawings and Modification/ Modernization of existing washeries. CMPDIL has submitted all the NITs for 18 Nos. of Washeries to the respective Subsidiary Companies of CIL. Out of these 18 Washeries, on request of BCCL, a fresh NIT for Moonidih Washery (2.5 Mtpa) to wash coal at 14% ash level of clean coal has been prepared and sent to BCCL.

Detailed Study Reports were prepared for renovation of existing Moonidih, Madhuban and Dugda-II washeries of BCCL. Bid documents for renovation work of Rajrappa, Moonidih and Madhuban washery were also prepared. "Report on Coking Coal in CIL Blocks" was prepared in December 2020 and presentation on the same was made to Secretary (Coal) on 23.12.2020. A 'strategy paper on augmentation of coking coal production and washeries in the country' was also prepared and submitted.

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 (i) Jharia CBM Block-I (BCCL area), (ii) Raniganj CBM Block (ECL area) & (iii) 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-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 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 has been received for Jharia CBM Block-I which is under finalization. No bid was received for Raniganj CBM Block. Tender for Sohagpur CBM Block floated later on 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 a 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, 37 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 high expectation of valuable projects proposals will be submitted by them in coming year.

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 and got certification against this International Standard by BIS, which is valid from 18.01.2021 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. The centralized infrastructure and MPLS connectivity has been established at all Subsidiary HQ locations; CIL, New Delhi; CIL HQ, Kolkata; IICM and NEC. E-office is running in all the locations.

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 2014-2015, CMPDIL 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 was awarded with 'Excellent' rating For the FY 2017-18 and 'Very Good' rating during 2018-19, whereas, performance evaluation of MoU for FY 2019-20 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.
- 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 from financial year 2020-21 is ₹1510.70 crores as against ₹1403.01 crores in the previous year, thus registering an increase of 7.68%. The total expenditure is ₹1096.21 Crores (Net of OCI).

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 ₹414.49 crores (Excluding OCI) as against ₹312.62 crores (Excluding OCI) in the previous year, increased by ₹101.87 crores. The profit after tax is ₹316.96 crores (Excluding OCI) as against ₹193.39 crores (Excluding OCI) for the previous year, increased by ₹123.57 crores.

1.4 Financial Overview of CMPDIL

During the year the company made a profit after tax of ₹316.96 Crore. The summary of the working results for the last three years is as follows:

(₹ In Crores)

Particulars	Performance of CMPDIL		
	F.Y. 2018-19	F.Y. 2019-20	F.Y. 2020-21
1. Profit before Taxes (₹ in Crore)	263.82	312.62	414.49
2. Profit after Taxes (₹ in Crore)	173.27	193.39	316.96
3. Turnover (₹ in Crore)	1274.56	1381.31	1488.60
4. Profit before tax to Turnover (%)	20.69	22.63	27.84
5. Earning per share (₹)	1213.37	1354.27	2219.61

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

The report of Statutory Auditor and the explanations or comments by the Board on every qualification, reservation or adverse remark made by the Statutory Auditor is enclosed as **Addendum-IV** to the report.

The report of Secretarial Auditor and the explanations by the Management on a remark made by the 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. The details are reported in the financial statement.

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 ₹17.78 crores, general reserve stands at ₹15.85 crores and the surplus in P/L account stands at ₹607.14 crores and totally constituting to the shareholders fund ₹659.45 crores. Non-current liability ₹298.42 crores and current liabilities ₹617.56 crores.

The company owns net fixed assets of ₹182.64 Crores, Deferred tax assets (net) ₹75.86 crores, other non-current assets ₹303.80 crores and current assets ₹1414.43 crores.

The total revenue from operations and other incomes stands at ₹1510.70 crores and after meeting all expenditure and taxes, the net profit stands at ₹316.96 crores. The earning per share (face value ₹1000 per share) works out ₹2219.61.

1.4.4 Capital Expenditure till 31st March, 2021

(₹ in Crores)

	2019-20	2020-21
Land & Building	7.18	14.23
Plant & Machine	13.17	22.01
Office equipment	1.28	0.12
Furniture	1.91	0.93
Telecom	0.03	0.03
Vehicle	1.43	1.04
Software	6.95	4.49
Total	31.95	42.85

1.4.5 Issue of Bonus Shares

In the 11th Extra Ordinary General Meeting of the CMPDIL held on 29th September, 2020, the members of the Company have approved the issue of Bonus Shares in the ratio of 11:4 i.e., Eleven Bonus Share for four fully paid equity share held by the shareholder. Accordingly, with reference to the consent received from M/s Coal India Limited, in its 411th Board meeting

held on 14th September, 2020, the Board of Directors of our Company in its 240th Board Meeting held on 16th October, 2020, have approved the allotment of 10,47,200 Equity Shares of ₹1000/- each to M/s. Coal India Limited aggregating to ₹142.80 Crores which is within the Authorized Capital of ₹150 Crores.

1.4.6 Declaration of Interim Dividend

The Board approved Interim Dividend in its 244th Board Meeting held on 4th March, 2021 for the Financial Year 2020-21, based on the working results for the period up to December, 2020, ₹64.77 Crore i.e. ₹453.57per 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 31.12.2020 for the FY 2020-21.

1.4.7 Material changes after 31.03.2021

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 and the explanations by the Management on a remark made by the Auditor is 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 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 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, 2021, the Board of Directors of CMPDIL comprises of 9 (Nine) Directors out of which four 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 Shekhar Saran. 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, 2021 is as follows:

I. Whole-Time Directors

A. Chairman-Cum-Managing Director

1. Shri Shekhar Saran



B. Functional Directors

1. Shri Rabindra Nath Jha
2. Shri Anil Kumar Rana
3. Shri Satendra Kumar Gomasta

II. Part-Time Official Directors

1. Shri Binay Dayal
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

Post Completion of the financial year 2020-21 upto 28.07.2021 (Date of AGM) the following changes in the Chairman-Cum-Managing Director took place which are as below :-

1. Shri Binay Dayal (From 19.07.2021 A/N)
2. Shri Manoj Kumar (From 01.05.2021 to 19.07.2021 A/N)
3. Shri Shekhar Saran (From 01.01.2016 to 30.04.2021)

(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 2020-21.

Sl. No.	Number of Meeting	Dates	Day	Place
1.	233 rd	13-05-2020	Wednesday	CMPDIL, Ranchi
2.	234 th	09-06-2020	Tuesday	CMPDIL, Ranchi
3.	235 th	19-06-2020	Friday	CMPDIL, Ranchi
4.	236 th	16-07-2020	Thursday	CMPDIL, Ranchi
5.	237 th	06-08-2020	Thursday	CMPDIL, Ranchi
6.	238 th	14-08-2020	Friday	CMPDIL, Ranchi
7.	239 th	15-09-2020	Tuesday	CMPDIL, Ranchi
8.	240 th	16-10-2020	Friday	CMPDIL, Ranchi
9.	241 st	05.11.2020	Thursday	CMPDIL, Ranchi
10.	242 nd	23-12-2020	Wednesday	CMPDIL, Ranchi
11.	243 rd	04-02-2021	Thursday	CMPDIL, Ranchi
12.	244 th	04-03-2021	Thursday	CMPDIL, Ranchi

(D) (i) 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	12	12	Yes
2.	Shri K.K. Mishra	10	10	Yes
3.	Shri R.N. Jha	12	12	Yes
4.	Shri A.K. Rana	12	10	Yes
5.	Shri Satendra Kumar Gomasta	12	12	Yes
Part-time official Directors				
6.	Shri Binay Dayal	12	8	Yes
7.	Shri Mukesh Choudhary	11	4	-
Part-time Non-official Directors				
8.	Dr. Krishna Chandra Pandey	12	12	Yes
9.	Smt. Alka Panda	12	12	Yes
10.	Shri Pramod Singh Chauhan	12	12	Yes

Sl. No.6 was appointed as Nominee Director from Coal India Limited w.e.f. 09.11.2017.

Sl. No.7 was appointed as Govt.Nominee Director from Ministry of Coal w.e.f. 26.05.2020.

(E) (ii) Disclosure of interest as on 31st March, 2021.

Sl. No.	Name of the Directors	Company in which interested	Nature of Interest i.e Chairman, Director, Manager & Secretary
Functional Directors			
1.	Shri Shekhar Saran	NIL	-
2.	Shri R. N. Jha	NIL	-
3.	Shri A. K. Rana	NIL	-
4.	Shri S.K. Gomasta	NIL	-
Part-time official Directors			
5.	Shri Binay Dayal	1. CMPDI Limited 2. Coal India Limited (Govt. of India U/T) 3. Coal India Africana Limitada 4. Talcher Fertilizers Limited 5. Bharat Coking Coal Limited 6. Hindustan Urvarak & Rasayan Limited 7. Central Coalfields Limited	1. Director 2. Director 3. Chairman cum Managing Director 4. Chairman 5. Director 6. Vice Chairman 7. Director
6.	Shri Mukesh Choudhary	Central Coalfields Limited	Director
Part-time Non-official Directors			
8.	Dr. Krishna Chandra Pandey	NIL	-
9.	Smt. Alka Panda	NIL	-
	Shri Pramod Singh Chauhan	1. Ashtvinayak Relators Pvt. Ltd.	1. 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 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.



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

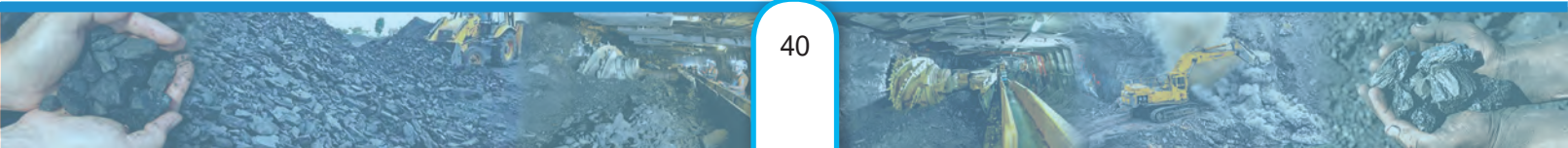
Continuous Miner Technology. With his vast practical experience of underground and opencast coal mining, enriched with the experience of planning and contract management, he has been instrumental in growth and sustainability of production at the places he has worked. Apart from running business as usual, 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.

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 Mukesh Choudhary
(DIN 07532479) graduated with

Bachelor's Degree in Mechanical Engineering, is also MBA and CFA degree holder. He is an Officer

of Indian Ordinance 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 w.e.f. 05.06.2020.

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



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 ₹ 10 Crs to ₹ 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 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.



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



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.



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.



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.



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 Ballabh 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 Deputy Secretary 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 2020-21.

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 Binay Dayal	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 A.K. Rana	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:

9 (Nine) meetings were held during the financial year 2020-21 on 13.05.2020, 09.06.2020, 16.07.2020, 06.08.2020, 14.08.2020, 15.09.2020, 05.11.2020, 04.02.2021 and 04.03.2021 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 K.K. Mishra	7	7
2.	Shri A.K. Rana	2	2
Part-time official Directors			
3.	Shri Binay Dayal	9	8
4.	Shri Mukesh Choudhary	7	4
Part-time Non-official Directors			
5.	Smt. Alka Panda	9	9
6.	Dr. Krishna Chandra Pandey	9	9
7.	Shri Pramod Singh Chauhan	9	9

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	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. Meeting and Attendance:

No meeting was held during the financial year 2020-21.

1.13 Remuneration of Directors from April, 2020 to March, 2021:

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, 2020 to March, 2021 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	Medical expenses	TOTAL
Shri Shekhar Saran	CMD	32,38,443.00	13,48,480.00	-	8,41,768.00	5,51,460.00	9,84,891.00	1,46,407.00	71,11,449.00
Shri K.K. Mishra	Director (Tech)	25,59,451.30	12,18,172.00	-	6,65,290.00	10,28,307.60	17,02,019.00	1,37,777.00	73,11,016.90
Shri R.N. Jha	Director (Tech)	30,51,991.66	11,63,305.00	-	7,93,305.00	-	2,84,504.00	29,852.00	53,22,957.66
Shri A. K. Rana	Director (Tech)	30,07,906.00	11,68,781.00	1,40,329.00	7,81,839.64	-	15,75,519.00	7,19,955.00	73,94,329.64
Shri S.K. Gomasta	Director (Tech)	30,37,323.00	8,97,288.00	-	7,89,491.00	6,41,725.40	17,12,508.00	63,924.00	71,42,259.40

(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 Binay Dayal, 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.

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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. 2020-21 are given as under:

Sl. No.	Name	Sitting Fees paid for attending		Total (₹)
		Board Meetings (₹)	Committee Meetings (₹)	
1.	Dr. Krishna Chandra Pandey	2,40,000	3,20,000	5,60,000
2.	Smt. Alka Panda	2,40,000	3,20,000	5,60,000
3.	Shri Pramod Singh Chauhan	2,40,000	3,20,000	5,60,000
Grand Total		7,20,000	9,60,000	16,80,000

1.14 Annual General Meetings:-

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

Details	2018-19 44 th AGM	2019-20 45 th AGM	2020-21 46 th AGM
Date	28.06.2019	27.07.2020	28.07.2021
Time	4:00 P.M.	10:30 A.M.	10:15 A.M.
Venue	Hotel Mayfair, Darjeeling	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	2018-19	2019-20	2020-21 11 th EGM
Date			29.09.2020
Time			10:30 A.M.
Venue	NIL	NIL	At the Registered office of the company Gondwana Place. Kanke Road, Ranchi, Jharkhand-834031
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 during the financial year 2020-21 on 04.03.2021.

The detail of the meeting attended by the Independent Directors are as under:-

Sl. No.	Name of the Independent Director	Number of meeting attended
1	Dr. Krishna Chandra Pandey	1
2	Smt. Alka Panda	1
3	Shri Pramod Singh Chauhan	1

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, 2021 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 2020-21 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 2020-21 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, 2021.

- **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 2020-21.

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, 2021 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 System

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 239th Board Meeting held on 15.09.2020.

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 A.K. Rana	Member	Functional Director

Company Secretary will act as Secretary to this Committee and General Manager (HRD/ CSR&MSD) 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 2020-21 on 21.12.2020. 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 (w.e.f. 15.09.2020)	-
6.	Shri K.K. Mishra	Member (From 10.07.2019 to 14.09.2020)	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, 2021 are:

Shri Shekhar Saran	:	CEO
Shri R.N. Jha	:	Director
Shri A.K. Rana	:	Director
Shri S.K. Gomasta	:	Director
Shri R. N. Sur	:	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 2020-21 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 ₹ 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 ₹ 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 2020-21 also, in CIL, Non-CIL, Promotional 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 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.

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 71. Out of 71 drills 26 drills are hydrostatic and 45 are mechanical.

1.0.3 Under outsourcing, the work of **112 blocks** involving about **44 lakh metre** of drilling and 1967 line km of 2D/3D seismic survey was awarded through tendering since 2008-09, out of which drilling has been concluded in **69 blocks**.

In 2020-21, a total of about **7.63 lakh m** is drilled through outsourcing, out of which 2.63 lakh m. is through tendering, **4.99 lakh m.** through MoU with MECL and **0.01 lakh m.** through State Govt.

1.1 Drilling Performance in 2020-21:

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, seven contractual agencies have also deployed resources for detailed drilling/exploration in CIL, Non-CIL and Promotional blocks. A total of 160 to 180 drills were deployed in 2020-21 out of which 71 were departmental drills.

CMPDIL continued the technical supervision of Promotional/NMET Exploration work undertaken by MECL in Coal Sector (CIL Areas) in 8 blocks. Apart from it, DGM (Nagaland) has also undertaken Promotional Exploration in 3 block & CMPDIL in 8 blocks in Coal Sector on behalf of MoC. Promotional/NMET Exploration work undertaken by MECL in Lignite Sector in **10 blocks**. A total of **1.35 lakh m.** of Promotional (Regional) drilling was carried out in **Coal (1.12 lakh m.)** & Lignite (0.23 lakh m) during 2020-21 through CMPDIL.

1.1.2 In 2020-21, CMPDIL and its contractual/MoU agencies took up exploratory drilling in **133 blocks/mines** of **23 coalfields** situated in **8 States**. Out of 133 blocks/mines, **55 were Non-CIL/Consultancy/R & D blocks**, **63 CIL** blocks/mines and 15 Promotional blocks. These coalfields are Raniganj (12 blocks), Rajmahal (2 blocks), Jharia (5 blocks), East Bokaro (1 block), W Bokaro (1 block), North Karanpura (7 blocks), South Karanpura (3 blocks), Wardha Valley(14 blocks), Bander (1 block), Umrer (2 blocks), Sohagpur (12 blocks), Mand Raigarh (22 blocks), Korba (1 block), Sonhat (4 blocks), Tatapani-Ramkola- (9 blocks), Singrauli (10 blocks), Talcher (11 blocks), Ib Valley (12 blocks) & Godavary Valley (1 blocks), Mikir Hills (1 block), Singrimari (1 block) and Ramnad (1 block). Departmental drills

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of CMPDIL took up exploratory drilling in **72 blocks/mines** whereas contractual/MoU agencies drilled in **61 blocks/mines**.

1.1.3 Under Promotional/NMET (Regional) Exploration Programme, MECL has

undertaken Regional drilling in **8 coal blocks** (Mand Raigarh = 2, Singrauli= 1, Ib Valley=1, Sohagpur=2, Tatapani-Ramkola = 1 & Godavary Valley=1). DGM (Nagaland) has also undertaken 3 block for regional drilling in Coal Sector.

The overall performance of exploratory drilling in 2020-21 is given below:

(Figures in Lakh meter)

Agency	Target 2020-21	Performance of Exploratory Drilling in 2020-21			Achieved Prev. Year: 2019-20	Growth %
		Achieved	Achieved (%)	+/-		
A. Detailed Drilling Undertaken by CMPDIL :						
I. Departmental	4.88	4.85	99%	-0.03	4.88	-1%
II. OUTSOURCING						
State Govts.	0.04	0.01	34%	0.03	0.03	-50%
MECL (MoU)	3.77	4.99	132%	1.22	4.93	1%
Tendering	2.31	2.63	114%	0.32	3.09	- 15%
Total Outsourcing	6.12	7.63	125%	1.51	8.05	- 5 %
Grand Total A*	11.00	12.48	113%	1.48	12.94	-4 %
B. Promotional/NMET Drilling by MECL, GSI, CMPDIL, DGM(Nagaland) & DGM(Assam):						
I. COAL SECTOR						
MECL	0.535	0.667	125%	0.132	0.668	0%
DGM, Nagaland	0.015	0.010	69%	0.005	0.010	-1%
DGM, Assam	0.04		0%	-0.04	0.00	
CMPDIL	0.170	0.443	260%	0.273	0.143	209%
Total Coal:	0.750	1.120	149%	0.370	0.821	36%
II. LIGNITE SECTOR						
MECL	0.250	0.229	91%	-0.022	0.335	-32%
Total Lignite	0.250	0.229	91%	-0.022	0.335	-32%
Grand Total B	1.000	1.349	135%	0.348	1.156	17%

* In 2020-21, out of total detailed drilling of about 12.48 lakh m., 6.45 lakh m. drilled in Non-CIL blocks.

In 2020-21, CMPDIL achieved its departmental and overall drilling targets by **99%** and **113%** respectively. The performance of departmental drilling has a negative **growth of 1%** and recording average operational drills productivity of **614 m/drill/month**. COVID-19 lockdown, non-availability of permission to explore in forest areas & local problems (law & order) in some blocks has affected the performance of departmental & outsourced drilling.

CMPDIL has undertaken Promotional Exploration in 15 blocks, 1 in Raniganj 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 2 in Talcher CF,.

1.1.4 Drilling in Non-CIL/Captive Mining Blocks:

In 2020-21, a total of **5.16 lakh m.** of drilling was targeted in Non-CIL blocks (departmental = 2.22 lakh m., outsourcing = 2.94 lakh m). As against this, a total of **6.45 lakh m.** has been achieved, out of which the departmental drills of CMPDIL have carried out **1.75 lakh m.** of exploratory drilling whereas **4.70 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 accredited as "Groundwater Professionals" by CGWA for preparation of Hydrogeological reports for NOC for mining sectors in India. The Process of accreditation as GWCO (Groundwater Consultant Organization) by QCI-NABET is also under process.

1.2.2 Hydrogeological studies of 09 nos. of mining projects/mines taken up for preparation of 'Groundwater Clearance Application' for CGWA approval and EIA/EMP preparation. Out of total 09 mining projects, BCCL (01 Project), CCL (04 Projects), WCL (01 Projects) and SECL (03 Projects) and were completed during 2020-21. Hydro geological studies for 08 mining projects of SECL (02 Projects), WCL (02 Projects), CCL (03 Projects) and MCL (01 Project) are in progress.

1.2.3 Two Outside Consultancy job is under progress-

- (1) Aquifer Performance Test were conducted along with hydrogeological report for impact assessment for Fly Ash dumping into Gorbi mine void, NCL by VSTPS, Singrauli, MP. (Draft report has submitted).
- (2) Preparation of Comprehensive Hydrogeology Report for NOC from CGWA for 06 nos. of mines, UCIL, Jaduguda.

1.2.4 Total 89 nos. of Comprehensive Hydrogeological Report as per new guidelines of CGWA for NOC of mining projects of WCL (50 Projects), SECL (32 Projects), NCL (04 Projects), ECL (02 Projects) and BCCL (01 Project-Preparation of Hydrogeological Report and NOC Application for CGWA for 15 Nos of Cluster of Mines) have been prepared.

1.2.5 Total 83 nos. of Hydrogeological studies on GR/PR / Piezometers / Damage Assessment Report (DAR)/ Compliance report and others have completed during this period. Total 17 nos. of Hydrogeological studies on GR/PR / Piezometers and others are in progress during this period.

1.2.6 CMPDIL is carrying out Routine Groundwater level Monitoring (Quarterly) of JCF & RCF (Part) in the leasehold of

BCCL. Report on Quarterly Monitoring of GW Level of Dugwell & Piezometers for Raniganj, Saharjuri & Rajmahal CF, ECL. Groundwater level monitoring in other areas of CCL, SECL, NCL and MCL also carried out. (As per TOR condition of MOEF).

1.3 Geological Reports:

1.3.1 In 2020-21, 26 Geological Reports are prepared on the basis of detailed exploration conducted in previous years. The prepared Geological Reports, have upgraded about **13.1 Billion Tonnes** of additional coal resources to 'Proved' category.

1.3.2 Under Promotional Exploration Programme, MECL has submitted 4 Geological Reports on coal blocks, established about **1.33 Billion Tonnes** of coal resources, in 'Indicated' & Inferred categories, above specified thickness.

1.4 Geophysical Surveys:

1.4.1 Geophysical Logging:

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 **2020-21**, a total of **7, 05,833.60** 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, **2,01,052.20** depth meters of logging was done by 8 departmental geophysical logging units and **5,04,781.40** 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 **199.716 line km** of Resistivity imaging, **122** Vertical Electrical Sounding (VES), **360 gravity stations** in Gravity survey and **80.70 line km** of Magnetic survey have been carried out in 2020-21 for such purpose and With Vibroseis, a total of **77.46 line km** of 2D Seismic Survey has been carried out in Nigwani Barkeli "A" block, Sohagpur Coalfield, Northern part of North of Arkhapal block, Talcher Coalfield and Shahpur (Senduri) Block, Sohagpur Coalfield through departmental and a total of **203.54 line Km** of 2D seismic Survey and **1.691 sq. km.** of 3D seismic survey and total of **20.570 line km** of Resistivity Imaging have been carried out through Outsourcing.

1.4.3 Reports:

A total of 22 reports, out of which 11 (scheduled reports) and 11 (unscheduled reports) Geophysical reports, have been submitted during the year **2020-21**. This includes one report on Seismic Survey, four on resistivity imaging survey, four on Integrated Geophysical survey, four report on geophysical logging, two notes on geophysical surface survey, one report on ground water survey, six geophysical report for GR.

1.5 Geosystem:

Identification of Prognosticated Coal Bearing Area:

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 no. of Gondwana Coalfields and 19 no. of Tertiary Coalfields have been studied.

The total basinal area of Gondwana Coalfields was estimated to be 65573.52 sq km, out of which a total of 31853.99 sq km was assessed to be prognosticated



coal bearing area. The total regional exploration area was measured to be 18636.24 sq km and 13256.31 sq km area is left-out for regional exploration.

The total basinal area of Tertiary Coalfields was estimated to be 1342.80 sq km, out of which a total of 914.82 sq km was assessed to be prognosticated coal bearing area. The total regional exploration area stands at 456.29 sq km.

Report on Augmentation of Coking Coal:

Geo-mining potentiality of coking coal blocks have been studied in details and a report on the same was prepared and submitted.

Mine Summary Preparation:

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.

Identification of new blocks in prognosticated area:

Recently, 24 new probable coking coal blocks and 5 new non-coking coal blocks have been identified from the increased prognosticated coal bearing area for future coal exploration covering a total area of approximately 886 sq km and 215 sq km respectively.

DSS/ESZ Anslsysis:

DSS and ESZ analysis were carried out for all listed blocks (957 as on 01.04.2020) and made available to MoC for decision making on Auctioning of Coal Blocks.

Exercise on CBM Ovelap area:

CBM block boundary related exercise to study the overlap issues of coal blocks with relinquished / under relinquished

CBM blocks. An exercise was done to re-delineate CBM blocks and adjust coal block boundaries to avoid mutual overlap. Out of 108 overlapped coal blocks in 17 CBM blocks, 102 coal blocks were made free from overlap by re-carving of CBM blocks.

24 coal block boundaries for MMDR blocks were presented before the committee along with respective exercise for each block and finalized by the Block Boundary Committee for Blocking of Coal block (BBCBC).

Dashboard preparation for Comprehensive Database along with ICT and PAD Dept. for MoC.

OCBIS application was updated for 45 coalfields along with new attribute added to the information for coal blocks i.e Unique IDs given to each block.

Prepared 1 Minex model and completed vetting of 3 GRs block boundary and Minex model checking.

Internal Audit for ISO standards in 10 departments as Auditor and maintained the ISO standards of the Exploration Dept and coordinated the External Audit for ABMS in Exploration Dept along with the team.

Assistance to different departments like Geomatics, Environment, UMD, OC, CE with respect to block boundary related query.

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 reworking to update and modify the techno-economic viability of Raniganj North CBM Block with four alternate options considering areas overlapped with BAPL and Coal blocks.

In Jharia CBM Block, ONGC is to develop CBM project through proposed 51 newly drilled CBM wells after discounting SAIL and CIL Coal Blocks Overlap. ONGC finalized well placement in consultation with CMPDIL considering available mining plans to prevent any hindrance in future mining.

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. About 20 well locations have been released till 2020-21 in Jharia CBM Block for CBM development.

2.2 CBM and Shale gas related studies under Promotional Exploration during 2010-2021

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 2020-21 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:

1. Jharia CBM Block – I (BCCL Area):

A Block of about 24.32 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. Tender Committee recommended to proceed for approval of competent authority for award of work.

2. Raniganj CBM Block (ECL Area):

An area of 32.74 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.

3. 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.

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.

2.4 CMM/CBM Clearinghouse in India:

A CMM/CBM clearinghouse was established at CMPDIL, Ranchi under the aegis of Ministry of Coal and U S E P A on 17th November, 2008 with financial support from Coal India Ltd. on behalf of Ministry of Coal and US EPA. The clearing house 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 has been renewed by US EPA for additional three years i.e.; 2018-21.

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

2.5 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 Sep, 21	Rs.2069.91 Lakhs	IEST, Shibpur (Principal) NGRI, Hyderabad CMPDIL, Ranchi TCE, Kolkata	Drilling of 05 Boreholes has been completed by CMPDI 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 is preparing 3D Geological model based on the data generated through 3D Seismic survey and drilling of boreholes. Following which, reservoir simulation is to be taken up by IEST, Shibpur.
2	S&T Project on "Capacity Building for Extraction of CMM Resource within CIL Command Areas"	21st Mar, 2016	Dec, 21	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 and is valid up to December, 2021. The equipment has been ordered/procured, further activities of Phase 3 & 4 is being undertaken in association with CSIRO.

3.0 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 2020-21 for building additional coal production capacity to the tune of 169 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)
- 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
- Detailed design and drawings, NIT, tender scrutiny, etc.

During the year 2020-21, 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, Study of riverine ecosystem and carrying capacity of coal mining areas, Slope Stability Study, Effluent/Sewerage Treatment Plants, Mine Closure Auditing, etc.

During the year 2020-21, a total of 224 reports have been prepared. The break-up of reports prepared has been given below:

REPORTS	Nos.
Geological Reports	26
Project Reports	33
Draft EMPs (including 31 Form-I)	40
Other Studies	125
TOTAL	224

Detail of reports prepared during the period 2020-21 are given below:

ANNEXURE - I

LIST OF COMPLETED REPORTS DURING 2020-21

Regional Institute/HQ	Name of the Reports	
Geological Reports		
RI-III	1.	Moitra (Sector E to I) (Captive)
	2.	Ashok Karkata Central (Non-CIL)
	3.	Pakri Barwadih (Captive)
RI-IV	1.	Rampia & Rampia Dip Extn.
	2.	Bhatadih Deep
	3.	West of Kiloni (Non-CIL)
RI-V	1.	Dipside of Baraud Bijari Sector-III
	2.	Amgaon
	3.	Sarapal
RI-VI	1.	Bandha (Non-CIL)
RI-VII	1.	Northern Part of North of Arkhapal (Captive)
	2.	Burapahar (Non CIL)
	3.	Sardhapur North (Non CIL)
Contractual	1.	Pathakuri Pipariya (Non-CIL)
	2.	Bhalu Kasba Surni Phase-II
	3.	Amartipur
	4.	Thesagora A (Dip Side)
	5.	Girari
	6.	Gitkunwari
	7.	Karkoma (Non-CIL)
	8.	Jarekela (Non-CIL)
	9.	Jharpalam Tangraghat (Non-CIL)
	10.	Urdhan Jamunia

Regional Institute/HQ	Name of the Reports	
	11.	Eastern Part of Gorhimahloi (Amlidhonda) (Non-CIL)
	12.	Western Part of Gorhimahloi (Non-CIL)
	13.	Chintalpudi Sector-I (Non-CIL)
Project Reports		
RI-I	1.	Mohanpur Expansion (Phase-II) OCP
	2.	Bonjemehari OC
RI-II	1.	Pirpainti Barahat OC Recast
	2.	Kapuria UG
RI-III	1.	Chandragupt OC (MDO Option)
	2.	Sanghmitra OC (MDO option)
	3.	Kabribad OC RPR Recast
	4.	EPR of Ashok OCP
	5.	EPR of Argada Expn. OCP
	6.	Karo Expn. OCP Recast
	7.	EPR of Konar Expn. OCP Recast
	8.	Topa OC
RI-IV	1.	Konda Hardola OC
	2.	Gauri Central OC
	3.	Mungoli Nirguda Extn. (Deep) OC RPR
	4.	Ghonsa Expn. (Deep) OC (including Kumbharkhani)
	5.	Gokul OC Expn (including Nand block)
	6.	Amalgamated Yekona I and II Expn. OC
	7.	Rampia-Ghogarpalli-Bijahan OC
	8.	Recast PR of Chinchala Pisgaon OC
	9.	Recast PR of Borda UG
RI-V	1.	Durgapur OC - MDO Option
	2.	Badauli UG with CM
	3.	Gare Palma IV/2&3 OC
	4.	Ketki Expn. UG - MDO Mode
	5.	Katkona RO UG
	6.	Duba OC
	7.	Kartali East Recast OC
RI-VI	1.	Khadia Expn. OC
RI-VII	1.	Balbhadra OCP
HQ	1.	Amelia Coal Block RPR of M/s THDC India Ltd.
	2.	Mandar Parvat Recast PR
	3.	Piparwar UG Phase-I with MDO Option
Environment Management Plan		
Form-I (including Form IV & VI)		
RI-I	1.	Cluster XI
	2.	Cluster XII

Regional Institute/HQ	Name of the Reports	
	3.	Cluster VII
	4.	Cluster X
	5.	Cluster II
RI-II	1.	Cluster V
	2.	New Moondih coking coal Washery
	3.	Cluster VIII (EC Amendment)
	4.	Cluster I (EC Amendment)
RI-III	1.	Amrapali Expn. OC
	2.	Piparwar UG
	3.	Argada OCP
	4.	Kathara OCP
	5.	Sirka OCP
	6.	Pichri OCP
	7.	Sanghamitra OCP
	8.	Pundi OCP
RI-IV	1.	Gauri-Pauni Expn. OC
	2.	Sasti Expn. OC
	3.	Tawa II UG
	4.	Bhatadi Expn. OC
	5.	Dinesh (Makardhokra III) OC
RI-V	1.	Mahamaya OC
	2.	Gevra OC Expn (EC Amendment)
RI-VI	1.	Semaria OC
	2.	Block B OCP Expn.
	3.	Bina-Kakari Amalgamation OCP
RI-VII	1.	Belpahar OCP (Extension of EC validity)
	2.	Balaram OC Expn. (15 Mty)
	3.	Hingula OCP (EC Amendment)
	4.	Bharatpur OC Expansion
Draft EMP		
RI-III	1.	Kedla UGP
	2.	Amrapali OCP Expn.
	3.	Kotre-Basantpur OCP
	4.	North Urimari OCP (Expansion under 7(ii) with addendum EMP)
RI-V	1.	Dipka OC Expn.
	2.	Gevra OC Expn. (Draft EMP) (Expansion under 7(ii))
RI-VII	1.	Kulda Expn. OC (15 Mty) (Addnm/Modified EMP under 7(ii))
	2.	Integrated Lakhampur, Belpahar & Lilari OCP
	3.	Kulda Expn. OC (19.6 Mty) (Addnm/Modified EMP under 7(ii))



4.0 COAL & MINERAL PREPARATION

The following major jobs have been completed during the year 2020-2021:

CMPDIL offers technical consultancy services for Greenfield Coal washeries, Mineral beneficiation plant and Modification / Modernization of existing plants. These services encompass exhaustive laboratory studies, techno economics feasibility report (TEFR), 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.

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

A. CONCEPTUAL REPORTS:

- New Rajrappa washery (3.0Mty), CCL
- Karo Washery (5.0 Mty), CCL

B. TENDER DOCUMENT

✓ On BOM Concept

- ❖ CMPDIL successfully accomplished integrated e-tender document for setting up of Moonidih Coking coal washery(2.5 Mty) at 14% ash on BOM concept, for the first ever in CIL

✓ On BOO Concept

- ❖ Integrated e-tender document for setting up of Karo Coking coal washery(5.0 Mty).
- ❖ Integrated e-tender document for setting up of New Rajrappa Coking coal washery (3.0 Mty).

✓ On Turnkey Concept

- ❖ Bid document for Renovation work of Madhuban washery.
- ❖ Bid document for Renovation work of old Moonidih washery, and
- ❖ Bid document for Renovation work of Dugda-II washery.

C. EVALUATION OF TENDER DOCUMENT

Moonidih New washery (2.5Mty), BCCL

D. CONTRACT DOCUMENTS

Contract Document for New Rajrappa Washery (3.0 Mty), CCL was prepared.

E. STUDY REPORT OF BCCL WASHERIES

Detail Study Report was carried out for Renovation of existing

- Moonidih washery
- Madhuban washery and
- Dugda-II washery

F. SCRUTINIZING OF CONSTRUCTION DRAWINGS

- Bhojudih washery, BCCL : 32 Nos.
- Madhuband washery, BCCL : 08 Nos.
- Ib-Vally Lakhanpur Washery, MCL : 138 Nos.

5.0 PROJECT APPRAISAL

1. Scrutiny and appraisal of 26 nos. of draft PRs/RPRs/EPRs prepared by Regional Institutes and HQ Departments of CMPDIL during the year 2020-21.
2. Scrutiny and appraisal of 17 nos. of conceptual notes prepared by Regional Institutes during the year 2020-21, 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.

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 Review Meetings.
4. Monitoring of formulation of PRs for projects identified under the 1 BT Program of CIL for 2023-24.

6.0 OPENCAST MINING

Following major jobs were completed during 2020-21

6.1 Major Outside Consultancy jobs completed are:

- Mining Plan and Mine Closure Plan for Banai Coal Block of M/s NTPC.
- Mining Plan and Mine Closure Plan for Bhalumuda Coal Block of M/s NTPC.
- Project Report for Amelia Coal Block of M/s THDC India Ltd.
- Draft Feasibility Report for Banai Coal Block of M/s NTPC.
- Draft Feasibility Report for Bhalumuda Coal Block of M/s NTPC.

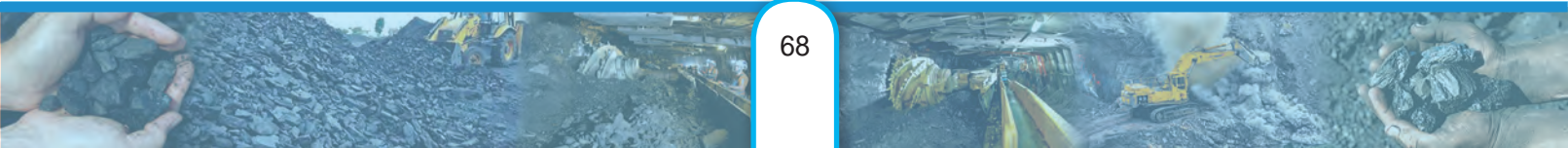
6.2 Major CIL Jobs completed are:

- Recast PR for Mandar Parvat Coal Block, BCCL.
- Updation of Recast PR & Preparation of MDO option for Chuperbhita, ECL.
- Vetting of Coal & OB quantity of 3 mining patches of BCCL.

- Assisted MCL in successful award of the development and operation contract of Siarmal OCP (50 Mty) to MDO. Estimated the desired price @12% IRR for MDO component of Siarmal OCP for comparative analysis of quoted L-1 rate. Also viability study of Siarmal OCP at L-1 rate was done.
- Scientific Study/Slope stability study for Chitra OCP (ECL).
- Assessment of Capacity of opencast mines of CIL – Projection as on 01.04.2021.
- Assessment of capacity and capacity utilization for Opencast mines of CIL during 2019-20.
- Performance analysis of HEMM during 2019-20 for all subsidiaries of CIL.
- Performance analysis of Dumpers & Excavators and Summary of CIL during 2019-20.
- Analysis of Specific consumption in opencast mines of CIL during 2019-20 for explosive, Diesel & Electric-power.
- Allocation of CIL plant number for newly commissioned HEMM and Updation of database.
- Technical and Financial appraisal of Project Reports.

6.3 Other jobs includes:

- Technical appraisal of Mining Plans for Ministry of Coal.
- Installation of Large Shear Box Test Machine of 2500 kN capacity (Normal & Shear load) at Geotechnical Lab.
- Organized Online Workshop Training on Slope Stability for 125 geo-technical cell officers of MCL





Installation of Large Shear Box Test Machine of 2500 kN capacity (Normal & Shear load)

7.0 UNDERGROUND MINING

A. Outside consultancy jobs:

Following jobs were completed during 2020-21:

- Underground Mining Chapter for Mining Plan of Bhalumuda Coal Block;
- Underground Mining Chapter for Mining Plan of Banai Coal Block; and
- Vetting of MDO Document of Rajbar E&D Coal Block TVNL.

B. CIL JOBS :

- 3D Subsidence Prediction & Management for Tawa UG Mine, Patherkhera Area, WCL;
- Preparation of Standard Price List for Mining Equipment;
- Subsidence prediction and management of Kedla UG, CCL;
- Preparation of detail design and BOQ for shaft, fan Drift and evasee for Pure Benedih UG Mine of Phularitand Colliery under Barora Area of BCCL;
- Subsidence prediction and management of Bhurkunda UG, CCL;
- Safety Audit of 07 (Seven) mines of CCL (Safety Audit of 6 mines completed. Safety Audit of one mine has been dropped by CCL);
- UG Mine Capacity Assessment and Utilization of UG mines of CIL;
- Model MDO Document for underground mines, discontinued mines and Regionally/ Partially explored coal blocks;
- Scientific study to assess the effect of depillaring within railway acquired land (BTPS) in respect of Seam III New, K.S.P Ph-II, B & K area, CCL;
- Gas survey of L-1 seam of Shiwani UG mine, SECL;
- Preparation of Abridged Project Report (APR) & MDO bid document for Piparwar UG Phase-I; and
- MDO Document for Amarkonda-Murgadangal & Brahmani Chichro-Patsimal.

C. Other jobs for MoC:

- Mine dossier and mine summary (including map and cardinal points) for the 38 coal blocks for the 1st tranche of commercial mining was prepared and sent to MoC.
- Preparation and submission of reply to the queries raised by the bidders with respect to 1st tranche of commercial coal mining.
- Mine dossier and mine summary (including map and cardinal points) for the 67 coal blocks for the 2nd tranche of commercial mining was prepared and sent to MoC

D. Jobs in progress:

(a) Outside consultancy jobs:

- Preparation of Detailed Project Report (Revised) for Ramnagore-Indikatta Underground Project for Ramnagore Colliery of SAIL; and
- Preparation of DPR for underground working in Dongri-Buzurg Mine of MOIL Limited.

(b) CIL jobs:

- Identification of Coal Blocks for NCL to achieve 170 MTY in 2023-24;
- Preparation of Design, Drawing, Estimate and NIT for the widening and deepening of Pit No.2 of Tilaboni Colliery, Bankola Area, ECL;
- PR of Borka/Saratola UG, MCL;
- Preparation of NIT for Patratu ABC Project of CCL as per AAP;
- Preparation of Abridged Project Report (APR) & MDO bid document for Parej (East), UG;
- R&D on Ventilation: Requirement of air in mine for mass production technology, Project code no. CIL/R&D/01/63/2016;

- 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

- Gare Palma Sector-I,
- GSECL, Tetariakhar Ph-II OC,
- Rohini Karketta,
- Pundi OC,
- Chainpur OCP, CCL
- GP IV/5 & GP IV/4 OC Coal Mines.

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 Jobs:

- Standard B,C & D type quarters of NCL as per enhanced plinth area norms.
- Building Design Standardization of various type quarters i.e. A, B, C & D type residential buildings in CIL and its subsidiaries.
- C&D type quarter G+5 at CETI, Singrauli
- Shopping center, stadium/playground & Kalyan Mandap and Project Office, for Dudhichua project, NCL.



8.3 Preparation of Tender Document:

- a. 190 T Dumper Repair Shop at Amlohri OCP, NCL
- b. Workshop & Store at Gevra OCP, SECL
- c. Additional 10 Mty CHP at Rajmahal OCP, ECL
- d. Jhanjra CHP, ECL
- e. Duchichua Ph-III (10 Mtpa incremental) CHP, NCL
- f. Block-B CHP (incremental 4.5 Mtpa), NCL
- g. Power supply arrangement of project expansion from 10 Mtpa to 20 Mtpa in Jayant OCP, NCL
- h. Renovation of the existing Moonidih (1.6 Mtpa) Coking Coal Washery, BCCL
- i. Renovation of existing Madhuban Washery (2.5 Mtpa), BCCL
- j. New proposed switching/substation at Bina OCP, NCL.
- k. 2x10 MVA, 33/6.6 KV sub-station at Bhatmura, Sonapur Bazari Area, ECL.

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.
 - Nallah passing through Garjanbahal OCP, MCL
 - Kotre, Jhummr, Pachmo and Baghraiya nala, CCL

- Nallah at Parasea - Belbaid Reorganisation UG, Kunustoria Area, ECL
- Potonga Nallah & Tilaiya Nallah, CCL
- c. Scheme for modification of existing ETP & STP of Kakri Project, NCL.
- d. Feasibility report, e-NIT & Cost Estimate for the Job of Renovation of 33/11kV Central Substation, Balanda, Jagannath Area, MCL.
- e. Modification of existing STP at Khadia Township & recirculation system for effluent of STP
- f. Scheme for effluent treatment plant at Central Hospital Singrauli, NCL
- g. Scheme for modification of existing ETP and STP for Bina Project, NCL.

8.5 Structural Adequacy Study:

- a. Kathara Washery, CCL
- b. Rajmahal CHP, ECL.

8.6 Design/ Drawing Scrutiny:

- a) Jayant Incremental CHP, NCL
- b) Kusmunda Workshop, SECL.
- c) JVR CHP, SCCL.
- d) IB Valley Washery, Lakhanpur, MCL.
- e) Bhojudih, NLW washery, BCCL.
- f) STP at New Kenda colony, Kenda Area, ECL.
- g) Officer's club cum Transit camp & Staff Club NSC, NCL.

8.7 R&D Projects:

- a) S&T project titled constructing structures on backfilled opencast coal mining-an attempt to suggest viable methodologies
- b) Investigation pertaining to geotechnical & hydrogeological aspects to stabilize the non-cohesive granular soil/sand in the opencast mines adjacent to the major perennial river.



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



Bird's eye view of proposed Shopping Centre for Dudhichua project, NCL.

9.0 ELECTRICAL AND MECHANICAL ENGINEERING SERVICES

Jobs carried out in 2020-21

9.1 Mine Planning (Infrastructure)

➤ Preparation of Project report

✓ Head Quarter

- Bhalumuda Block, NTPC (12 Mty) and Banai Block, NTPC (10 Mty)

✓ Regional Institute II

- PR for Kapuria U/G, East Damagoria (Kalyaneswari), Pirpainti Barahat, Mandar Parvat, Phoolaritand U/G Mine and Amalgamated NTST Amalgamated Joyrampur kujama.

✓ Regional Institute III

- Expansion Project Report for Ashoka OCP (22 Mty), Karo OCP (11 Mty), Konar OCP (8 Mty), Tapin OCP (2.5 Mty), Govindpur OCP (2.5 Mty) and Topa OCP (5.25 Mty).
- Project Report for Tokisud OCP (2.32 Mty) and Jeevandhara OCP (1.5 Mty)

✓ Regional Institute IV

- Konda Hardola, Gokul, Gauri Central, Chinchala Pisgaon, Mungoli Nirguda and RGB (Rampia – Ghogarpalli- Bijahan) OC Mine
- Borda UG Mine
- Amalgamated Yekona I & Yekona II OC Mine and Kumbharkhani-Ghonsa OC Mine

✓ Regional Institute VI

- Final PR of Bina Kakri (9.5 MTPA)
- Final EPR of Nigahi (25 MTPA Incremental)
- EPR of Khadia (16MTPA Incremental)
- PR of Jhingurdah Bottom

✓ Regional Institute VII

- Project Report of Kulda Garjanbahal Expansion (40 Mty), Bhubaneswari OCP expansion (40 Mty), Balabhadra OCP (10 Mty), Subhadra OCP (25 Mty) and North of Arkhapal OCP (15 Mty).

➤ Updation of Project reports / cost estimate

• Head Quarter

Mandar Parvat Block, BCCL (17.5 Mty)

✓ Regional Institute III

- Amalgamated Amlo-Dhori (5 Mty)
- Kabribad (0.75 Mty)



9.2 Coal handling Plant

➤ Preparation of e-tender / tender documents:

✓ Head Quarter

- Jhanjhra UG Expansion CHP, ECL (5 MTY)
- Additional 10 MTY CHP at Rajmahal OCP, ECL
- Block-B CHP, NCL (4.5 MTY)
- Installation of secondary sizer of Jayant old CHP, NCL
- Consultancy Services for setting of RG-OC 3-6 CHP on EPC mode, SECL
- Renovation of dust extraction & ventilation system of old CHP (Ph-1) of Amlohri CHP, NCL
- Preparation of updated cost for Dudhichua CHP (10 MTY Incr), NCL

✓ Regional Institute III

- Revised Tender Document for North-Urimari CHP (7.5 MTY), Magadh CHP (20 Mty), Amrapali CHP (12 Mty), Tender Document for Amrapali CHP Phase-II (13 Mty), Magadh CHP Phase-II (31 Mty) and Konar CHP (5 Mty).

✓ Regional Institute IV

- NIT for Baroud OC, SECL CHP with Silo (FMC Project) and Dinesh OC, WCL CHP with Silo (FMC Project)

✓ Regional Institute V

- Gevra CHP & SILO (5&6), Gevra Phase-II, 30 Mty
- Kusmunda Central In Pit CHP, 40 Mty
- Dipka Mechanized RLS Siding, 25 Mty
- Chhal CHP & SILO, 6.0 Mty
- Draft NIT for Amadand CHP, 4.0 Mty

✓ Regional Institute VI

- NIT for mechanized loading system with RLS at Amlohri and Dushichua Wharfwall
- NIT for Secodary Sizer at Khadia CHP.
- NIT for Bina Kakri CHP (9.5 MTPA) and Nigahi CHP (10.0 MTPA)

✓ Regional Institute VII

- E-tender document along with cost estimate for Coal transportation system 15 MTY at Lakjura OCP, Ib-Valley Area, MCL
- E-tender document along with cost estimate for coal evacuation system by belt conveyors and dispatch through rapid loading system with surge bin at Sardega siding (20 MTY), MCL
- E-Tender document along with cost estimate for construction of input coal feeding arrangement to CHP under construction and coal evacuation planning for 15 MTPA from CHP under construction (Ph-II) at Bhubaneswari OCP, MCL
- E-tender document along with cost estimate for CHP and RLS with surge bin (10 MTY) at Kaniha Area, MCL
- E-tender document along with cost estimate for CHP 15 Mty with RLS and surge bin arrangement at Ananta OCP, MCL.
- e- Tender document along with cost estimate for VK7 CHP at KGM area on EPC mode under SCCL (outside consultancy)
- e-Tender document along with cost estimate for 10 MTPA Conveyor Stream at PKOC CHP at MNG area on EPC mode under SCCL. (outside consultancy).

➤ **Scrutiny/Approval of Drawings of CHP's / Workshop/Substation**

✓ **Head Quarter**

- Shifting of 132/33 kV, 3x40 MVA Madhauri Substation, NCL
- Krishnashila Main CHP (4 MTY), NCL
- JVROC & KK1 CHP, SCCL
- Kusmunda Workshop, SECL
- Modification of Khadia STP (E&M part)
- Incremental (15 MTY) CHP at Jayant OCP and (10 MTY) CHP at Dudhichua OCP

✓ **Regional Institute V**

- Drawing scrutiny of 3 nos 33 KV substation balance work and 2X100 MVA, 220/33KV substation at Gevra OCP, 2X1 MVA, 33/3.3KV substation at Saraipali OCP of Korba area, 3 nos 33KV/6.6 KV substation and 3 nos 33KV DCDS OHTL at Kusmunda OCP.

✓ **Regional Institute VII**

- Drawing Scrutiny of Hingula CHP & SILO, Bhubaneswari (Ph-I) CHP & SILO and Lakhanpur CHP (Ph-I)10 Mty, MCL.

9.3 Workshop & Store: Preparation of e-tender documents

➤ **Head Quarter**

- Revised NIT for 190T Dumper Repair Shop at Amlohri OCP, NCL.
- Gevra Workshop & Store (70 MTY), SECL
- Block-B Workshop & Store, NCL
- Nakrakonda-Kumardihi-B W/S and store at Bankola Area, ECL
- Dudhichua W/S and Store Expansion, NCL

- upgradation of CWS, Jayant, NCL
- Preparation of Technical Specification of P&M (44 Nos.) for CWS, Jayant, NCL

9.4 Energy Audit and Benchmarking

➤ **Annual Diesel Benchmarking for seventy (93) nos. Opencast mines + 1 of CIL for the following subsidiaries by HQ, Ranchi**

✓ **Head Quarter**

- 13 OCPs of BCCL, 33 OCPs+ CCL as a whole, 08 OCPs of ECL, 12 OCPs of MCL, 10 OCPs of NCL, 03 OCPs of SECL and 14 OCPs of WCL.

✓ **Regional Institute II**

- 14 OCPs identified by BCCL.

➤ **Electrical Energy Audit & Benchmarking for**

✓ **Head Quarter**

- Block B OCP, NCL
- NCL HQ office & colony, NCL
- 1. Churi UG, Argada Area, 2. Sayal D UG, Barkasayal Area, 3. Topa OCP, Kuju Area, 4. Kargali OCP, B&K Area and 5. Piparwar OCP, Piparwar Area, CCL
- Kakri OCP, NCL

✓ **Regional Institute II**

- New Akash Kinaree Colliery, BCCL.

✓ **Regional Institute III**

- Kargali OCP and Churi U/G CCL

✓ **Regional Institute IV**

- Krishnashila OCP, NCL

✓ **Illumination Survey of**

✓ **Head Quarter**

- Jayant OCP and Nigahi OCP of NCL

✓ **Regional Institute VI**

- Jhingurdah OCP, NCL

9.5 Power Supply and Distribution & Control Systems

➤ Head Quarter

- NIT for Power supply arrangement of project expansion for 10 MTPA to 20 MTPA in Jayant OCP, NCL
- NIT for Bina Switching Station, NCL
- NIT for Shifting of OH Line of Block-B OCP, NCL
- NIT for Substation for Bina Kakri Amalgamation, NCL
- NIT for Renovation of 33/11 KV Central Substation, Balanda, Jagannath Area, MCL
- NIT for Construction of 3x10 MVA, 33/6.6 KV Sub-Station at Block-B Expansion OCP, NCL
- NIT for 2x10 MVA, 33/6.6KV sub-station at Bhatmura OCP, ECL
- NIT for 2x4 MVA, 33/3.3 KV sub-station at SOCP, IBV Area, MCL
- Fire-fighting arrangement for 4x20 MVA, 132/33 KV central sub-station at Jorabaga, Lakhanpur Area, MCL
- NIT for Collapsable OHE at Lingraj OCP, Talcher Area, MCL

✓ Regional Institute I

- Preparation of Estimate and Layout Drawing of Sub-station of Siduli U/G Mine.

➤ Regional Institute III

- Revised Tender Document for 2X16MVA, 33/6.6kV substation-IE of Magadh OCP
- Revised Tender Document for 2X16MVA, 33/6.6kV substation-II of Amrapali OCP
- Revised Tender document for 33kV overhead transmission line from proposed DVC Tandwa near NTPC tandwa to proposed 2X16MVA, 33/6.6 kV substation-IE of Magadh OCP.

- Revised Tender document for 33kV overhead transmission line from proposed DVC Tandwa near NTPC tandwa to 2X16MVA, 33/6.6kV substation-II of Amrapali OCP.
- Draft Tender Document for 2X16MVA, 33/6.6kV substation-MH of Magadh OCP and substation-I of Amrapali OCP
- Draft Tender Document for 2X5MVA, 33/6.6kV substation of North Urimari OCP and Konar OCP.

✓ Regional Institute V

- NIT for 33KV substation at Jagannathpur OCP of Bhatgaon Area and Chhal OCP of Raigarh Area and 3 nos 33KV/6.6 KV substation at Gevra OCP.
- Draft NIT for 33 KV OHTL at Gevra OCP and 1 no 132 KV substation & 2 nos 33 KV substation at Baroud OCP of Raigarh area.

✓ Regional Institute VI

- NIT for 2X10MVA OB substation, Khadia OCP, NCL.

✓ Regional Institute VII

- e-NIT & cost estimate for erection of 33 kV overhead line from 132/33 kV Nandira substation to New Quarry and construction of new substation at New Quarry, Jagannath OCP, MCL.
- E-NIT and cost estimate for the job of 2 X10 MVA, 33/6.6 kV substation at Garjabahal Area, MCL

9.6 Solar Initiatives

✓ Regional Institute I

- Preparation of NIT for Supply, Installation, Commissioning & Testing of 60 Nos. Solar LED Street Lighting System (All in one System shall not be Acceptable) at Kendgore

Gram Panchayat, Khairasole Block Birbhum, under CSR activity.

✓ **Regional Institute IV**

- 100 kWp Solar Rooftop Power Plant has been commissioned at CMPDIL Residence Quarters in March, 2021.
- Under CSR activity 5 kWp Solar Rooftop Power Plant has been commissioned at Zilla Parishad Prathmik Shala, Bandra Village, Kendra – Yensa Pachayat Samiti, Warora. Distt: Chandrapur in September, 2020.

9.7 **Other Reports / Tender Document / Scheme**

✓ **Head Quarter**

- Feasibility study & detail project report for 12 Nos. Solar Roof Top Power plants on roof of the administrative & service buildings of MCL
- Scheme on STP at Kenda, ECL
- Scheme for mechanised loading of wagon & truck loading system for ORE (3 type) at Balaghat Mine, MOIL
- Cost estimate & specification for E&M items for proposed modification of ETP at Bina OCP, NCL
- Cost estimate & specification for E&M items for proposed modification of STP at Bina OCP, NCL
- Scheme for modification of existing STP & ETP at Kakri OCP, NCL
- NIT for leasing of 2 x 10 MW, Moonidih CPP, BCCL

✓ **Regional Institute II**

- Schemes for dealing with fire at 11 NRSC identified fire sites in BCCL

✓ **Regional Institute IV**

- Preparation of Scheme for CM in Tawa UG, Tandsi UG & Saoner Mine-I UG.

✓ **Regional Institute VI**

- NIT for Operation & Maintenance of Nigahi CHP (Package A, B & C)
- NIT for Jayant ETP.

✓ **Regional Institute VII**

- Scheme Scheme for Coal transportation system 15 MTY at Lakjura OCP, Ib-Valley Area, MCL
- Scheme for CHP 15 Mty with RLS and surge bin arrangement at Ananta OCP, MCL.
- Scheme for Mechanized truck loading system for elimination of pay loader loading in road sale trucks (Lakhanpur Area), MCL

9.8 **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 2020-21 is around Rs. 2.33 crores.

9.9 **NDT (Non-destructive Testing) Jobs**

✓ **Head Quarter**

- NDT of Steel Structure & Columns of CHP at Rajmahal Area, ECL
- NDT of HEMMs at NCL
- NDT of HEMM at various projects of CCL
- NDT of HEMMs at Ballarpur Area, WCL
- NDT of CHP at various projects of NCL
- NDT of HEMM & other P&M of NCL Projects
- NDT of 20/90 Dragline & Excavators (8 Nos) at Ballarpur Area, WCL

✓ **Regional Institute VI**

- NDT for CHP Structure & HEMM of different OCPs with support of CMPDIL (HQ).



9.10 Other Major Jobs

- ✓ **Head Quarter**
 - Coal Block Cost updation (E&M Part)
 - Vehicle Tender for hiring of 7 SUV type vehicle on 24*7 monthly basis through GEM portal
 - Vehicle Tender for hiring of vehicle on as and when required basis.
 - Implementation of ISO Integrated Management System of CMPDIL for ensuring Quality and Data Security in E&M Division, CMPDIL (HQ)
 - Implementation of Risk Management System and Anti-Bribery System in E&M Division, CMPDIL (HQ)
- ✓ **Regional Institute II**
 - Annual coal stock measurement for CIL
 - Preparation of mine closure plan for 10 mines of BCCL
 - Mining Plan & mine Closure Plan for Bastacolla colliery, Bera OC Mine, combined cluster IV & Cluster V Mines, Damuda Colliery, Amalgamated NTST Amalgamated Joyrampur Kujama.
- ✓ **Regional Institute IV**
 - Hiring of 02 nos of (13+1) seated capacity School Bus has been done successfully.
- ✓ **Regional Institute VI**
 - Purchase & Contracts (Other than Civil) of RI including Drilling Camp.

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.

Following are the list of completed and running works under Capital works, running repair works, special repair works and CSR works in 2020-21 in TE & CM Division of CMPDIL (HQ) :

Sl. No.	Name of works	Work Value (Rs. In lakh)
ON-GOING WORKS		
1.	Repairing of roads by bituminous concrete layer. (Govind Roy)	80.07
2.	Maintenance contract for Civil Engineering Works for Residential Quarters at CMPDIL (HQ), Ranchi for one year (J P Rai)	69.37
3.	Maintenance contract for Civil Engineering Works for office and other service building at CMPDIL (HQ) complex, Ranchi. (Ramraj construction)	39.00
4.	Upkeep work of CMPDIL(HQ), Ranchi. (Jai Shankar and company)	125.11
5.	Annual Maintenance Contract for Garden including maintenance of seasonal plants (indoor and outdoor) at CMPDIL(HQ) complex, Ranchi. (Ganesh Karmakar)	59.66

10.0 TOWN ENGINEERING SERVICES

The main responsibilities of the Town Engineering Department includes:

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Sl. No.	Name of works	Work Value (Rs. In lakh)
6.	Construction of cottage for needy elderly at the campus of old age home at village Kulgu Kalendey Block Nagri Ranchi under CSR project. (Veena construction)	12.48
7.	Construction of Badminton court in CMPDIL colony, Ranchi. (Ramraj construction)	114.56
8.	Civil and allied works for installation of Capsule Lift in Exploration building and CMPDI Guest House at CMPDIL(HQ) Ranchi. (Deepak Kumar Singh)	24.82
9.	Providing and laying vitrified flooring tiles and aluminium windows in multi 1D & 2D building at CMPDIL (HQ), Kanke Road, Ranchi (S.S. Construction)	84.98
10.	Operation & Maintenance of waste water treatment plant including operation & maintenance of pumps for one year in CMPDIL HQ, Ranchi (Jai Electrical Centre)	3.82
11.	Supply, installation, testing and commissioning of 630 KVA, 11 KV/415 V Transformer alongwith incomer VCB, outgoing distribution panel, cables etc and construction of control panel room - 5x3.5 sq. mtrs at CMPDIL (HQ), Ranchi (M/s Industrial Switchgear)	38.50
12.	Electrical Maintenance works of CMPDIL Complex, Ranchi (Residential and non-residential both) for one year (Jai Electrical Centre)	36.02
13.	Supply, installation, testing and commissioning of 150 kw rooftop solar plant at CMPDIL HQ.	51.03
COMPLETED WORKS		
1.	Supply, installation, testing, commissioning and Comprehensive Maintenance of Central Air-Conditioning Plant for 9 years after successful completion of one year of warranty in CPEI building (G+7) of CMPDIL (HQ), Ranchi (M/s Universal Associates)	441.5

Sl. No.	Name of works	Work Value (Rs. In lakh)
2.	Supply, installation, testing and commissioning of Microprocessor controlled Air-Conditioning system at Community Hall, CMPDIL (HQ), Ranchi with 09 years CAMC of AC Plant after successful completion of warranty period of one year(M/s Universal Associates)	28.02
3.	Rewiring of 'B' type, 'C' type and 'D' type in CMPDIL colony, Ranchi (Jai Electrical Centre)	191.00
4.	Upkeep work of CMPDIL (HQ), Ranchi (Jai Shankar)	108.42
5.	Annual Maintenance Contract for Garden including maintenance of seasonal plants (indoor and outdoor) at CMPDIL (HQ) complex, Ranchi. (Ganesh Karmakar)	50.62
6.	Maintenance contract for Civil Engineering Works for office and other service building at CMPDIL (HQ) complex, Ranchi. (S.S. Construction)	42.14
7.	Ensuring accessibility for Divyangjan in different location at CMPDIL (HQ), Ranchi(S.S. Construction)	20.89
8.	Creation of space for office of CMC Cell, CMPDIL Ranchi. (S.S. Construction)	2.02
9.	Construction of building for Geotech laboratory at CMPDIL (HQ), Ranchi. (Govind Roy)	18.44
10.	Construction of hall for CBM Lab over R&D building, CMPDIL campus, Kanke Road, Ranchi. (Govind Roy)	15.89
11.	Supply, installation, testing and commissioning of Lifts at 1C, 1D, 2C and 2D type quarters at CMPDIL (HQ) including buyback of old Lifts and Nine Years CAMC of Lifts after successful completion of one year warranty period (M/s Arohi Elevator Pvt. Ltd)	93.95



11.0 RESEARCH & DEVELOPMENT PROJECTS :

11.1 S&T PROJECTS FUNDED BY MINISTRY OF COAL

The Research & Development (R&D) activities in coal sector is administered through an Apex Body namely, Standing Scientific Research Committee (SSRC) with Secretary (Coal), MoC as its Chairman. The other members of this Apex Body include Chairman of Coal India Limited (CIL), Joint Secretary & Financial Advisor, MoC, CMDs of Central Mine Planning & Design Institute Limited (CMPDIL), Singareni Collieries Company Limited (SCCL) and Neveli Lignite Corporation India Limited (NLCIL), Director General (DG) of Directorate General of Mines Safety (DGMS), Director General of Council of Scientific & Industrial Research (CSIR), Chairman, Technical Sub Committee of SSRC, representative from Department of Science & Technology, Advisor Energy, NITI Aayog, Director, CMIFR, Dhanbad and Director, TERI. The main functions of SSRC are to plan, program budget, approve new research projects, oversee their implementations and seek application of the R&D findings in actual field condition.

The SSRC is assisted by a Technical Sub-Committee headed by HoD (Mining), IIT-BHU/ HoD(Mining), IIT-Kharagpur/ HoD(Mining), IIT-ISM, Dhanbad on rotation basis for 1 year each. Presently HoD (Mining), IIT-BHU is the Chairman of Technical Sub-Committee. This sub-committee deals with new research proposals related to production, productivity and safety in coal mines, coal beneficiation and utilization, clean coal technologies, protection of environment and ecology etc.

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, inviting research proposals, identification of agencies which can take up the research work in the identified fields, initial scrutiny and processing the proposals, 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 31.03.2021) - 397 nos.
- Total no. of S&T projects completed (till 31.03.2021) - 327 nos.

11.2 Physical and financial performance during 2020-21:

A. Physical performance

Sl. No.	Parameters	Quantity
1	Projects on-going as on 01.04.2020	11
2	Projects completed during 2020-21	04
3	Projects on-going as on 01.04.2021	12
4	Projects sanctioned during 2020-21	05

B. Financial status

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

(Rs.in Crores)

2019-20			2020-21			
RE	Fund received from MoC	Actual	BE	RE	Fund received from MoC	Actual
19.80*	18.78	18.67	25.00	12.00	9.89	9.91**

* Excluding NER for Rs.2.20 Crore** Utilising unspent amount of the previous year

C. Special Achievement :

1. Development of S&T Website :

CMPDIL has designed & developed a website (link provided in CMPDIL& MoC website <https://scienceandtech.cmpdi.co.in>) for S&T research in coal & lignite sector to promote Research & Development (R&D) which provides the information related to completed and ongoing research projects and the guidelines for implementing coal research projects with different forms so that anybody can submit proposals in a requisite manner. It also has the lists & outcomes of completed projects and ongoing research projects to have a transparency & to avoid repetitive nature of projects. It also showcases photos, videos & news clippings related to completed S&T projects, different publications and identified thrust areas for future coal research keeping in view the future needs of the sector.

2. Modification of S&T Guidelines for Ministry of Coal :

Existing S&T Guidelines for implementation of coal research projects, which was last reviewed in July, 2000, has been modified. The same was approved by Standing Scientific Research Committee (SSRC) in its meeting held on 02.02.2021 and uploaded on S&T website.

3. Identification of new Thrust Areas for research in coal and lignite sectors:

As per directives of MoC, new thrust areas for future research in coal and lignite sectors have been identified. Some new areas relevant to present need 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. Widespread circulation of thrust area among all leading research institutes of India has resulted in submission of research proposals on new subjects.

11.3 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 proposal, and disbursement of fund to implementing agencies based on the progress of the project and monitoring the progress of the projects till their completion, 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 31.03.2021) - 101 nos.
- Total no. of R&D projects completed (till 31.03.2021) - 65 nos.

11.4 Physical performance

The status of CIL R&D Projects during 2020-21

The status of CIL R&D Projects during 2020-21 are as follows:

Sl. No.	Parameters	Quantity
1	Projects on-going as on 01.04.2020	18
2	Projects sanctioned during 2020-21	09*
3	Projects completed during 2020-21	02
4	Projects terminated/ foreclosed during 2020-21	02
5	Projects on-going as on 01.04.2021	23*

2 Projects are yet to start

11.5 Financial status

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

(Rs. in Crores)

2019-20		2020-21	
RE	Actual	RE	Actual
30.00	20.60	12.00	12.29

The list of S&T and R&D projects sanctioned and completed during 2020-21 are enclosed as **Annexure-A & Annexure-B** respectively.

Annexure-A

S&T Projects funded by Ministry of Coal (MoC) sanctioned during 2020-21

Sl. No.	Name of the project	Implementing agencies	Approved cost (Rs. in Lakh)
1	Indigenous Development of IoT Enabled Technology for Monitoring, Analysis and Interpretation of Longwall Shield Pressures for Improving Safety and Productivity [Project code: MT-172]	CMPDIL, Ranchi, IIT, Kharagpur & Eastern Coalfields Limited (ECL), Sanctoria	471.0

Sl. No.	Name of the project	Implementing agencies	Approved cost (Rs. in Lakh)
2	Study of hazards due to mining induced sub-surface cavities and waterlogged areas in inaccessible old workings in underground coal mines using geophysical technique [Project code: MT-173]	IIT-ISM, Dhanbad and ECL, Sanctoria	199.96
3	Design & Development of Drone Mounted Optical Sensor for continuous monitoring of PM _{2.5} & PM ₁₀ in railway siding before, during & after loading operation [Project code: MT-174]	IIT-BHU, Varanasi and NCL, Singrauli	36.84
4	Development of Coal Quality Exploration Technique based on Convolutional Neural Network and Hyperspectral Images [Project code: CP-50]	CIMFR, Nagpur and Department of Computer Science & Engineering, Shri Ramdeobaba College of Engineering & Management, Nagpur	103.59
5	Assessment of Rare Earth Elements (REE) and other economic resources in Coal & Non-Coal Strata and Characterization of Acid Mine Drainage and its pollution control from the North Eastern Region (NER) Coalfield [Project code: EE-51]	Punjab University, Chandigarh, CMPDIL, Ranchi & Duke University, USA	361.38

S&T Project funded by Ministry of Coal (MoC) completed during 2020-21

Sl. No.	Name of the project	Implementing agencies	Approved cost (Rs. in Lakh)
1	Constructing structure on backfilled open Cast Coal Mines: An attempt to suggest viable methodologies [Project code: EE-46]	IIT-ISM, Dhanbad and Civil Engineering Division, CMPDIL, Ranchi	345.14
2	Development of tele robotics and remote operation technology for underground coal mines. [Project code: MT-162]	CMERI, Durgapur, CIMFR, Dhanbad and CMPDIL, Ranchi	440.12
3	Investigation Pertaining to geotechnical & hydrogeological aspects to stabilize the non-cohesive granular soil/sand in the opencast mines adjacent to the major perennial river [Project code: MT-167]	Civil Engineering Department, IIT, Bombay; RI-IV, CMPDIL, Nagpur & WCL, Nagpur	495.03
4	Electronification of Ground Water Control and Conveyor System in Mines [Project code: MT-168]	NLC India Limited (NLCIL), Neyveli & National Institute of Technology Tiruchirappalli (NIIT), Tamil Nadu	181.27



Annexure - B

R&D Projects funded by CIL approved during 2020-21

Sl. No.	Name of the project	Implementing agencies	Approved cost (Rs. in Lakh)
1	Bench Scale Study on reducing ash content (mineral matter) from Washery Grade Coking coal and high ash non-coking coal through oil agglomeration. [Projectcode: CIL/R&D/02/09/2020]	NML, Jamshedpur CED Deptt., CMPDIL	53.62
2	Forensic investigation related to Geo-technical aspects in order to stabilize the foundation soil of expansive nature and implement suitable ground improvement technology to sustain and enhance the optimum overburden dump height. [Project code: CIL R&D/04/11/2021]	Civil Engineering Division, CMPDIL(HQ), Ranchi and RI-IV, CMPDIL, Nagpur; VNI), Nagpur and WCL, Nagpur	492.26
3	Design and deployment of Ventilation Fan Wind Power Recovery System as an alternate source of Electrical Energy in Underground Coal Mines. [Project code: CIL/R&D/04/12/2021]	IIT-ISM, Dhanbad & ECL, Sanctoria	66.70
4	Development of an indigenous optical fiber based instrument for measuring in-the-hole Velocity of Detonation [VOD] and analyze the performance of explosive in field condition. [Project code: CIL/R&D/01/72/2021]	Innovation Cell, CMPDIL in association with Mine Electronics Division, CMPDIL (HQ), Ranchi	495.97
5	Effect of Blasting on Opencast Mine Dump and Development of Relationship between Blast Induced Vibration and Dump Design. [Project code: CIL/R&D/01/73/2021]	Blasting Division, CMPDIL; BIT, Mesra and IIT-ISM- Dhanbad	344.22
6	Design and Development of Drop Test Facility for Pit Bottom Buffer, used in Underground Coal Mines. [Project code: CIL/R&D/01/74/2021]	CMERI, Durgapur & ECL, Sanctoria	248.61
7	To develop an Artificial Intelligence (AI) based machine learning solutions to enable prediction of occurrence of fire in Open cast mines extracting locked coal pillars with safety. [Project code: CIL/R&D/05/01/2021]	IIT-ISM, Dhanbad	25.99
8	Design of Protective Barrier Pillar against Large Water Head in Underground Coal Mines.	IIT (BHU), Varanasi and ECL, Sanctoria	87.47

Sl. No.	Name of the project	Implementing agencies	Approved cost (Rs. in Lakh)
9	Prediction of particulate matter and gaseous pollutants concentration through Artificial Neural Network [ANN], Probabilistic Neural Network [PNN] and Classification and Regression Tree [CART] models and comparison with CALPUF and AERMOD in Singrauli coal mines.	BIT, Mesra , CMPDIL and NCL	85.25

R&D Projects funded by CIL approved during 2020-21

Sl. No.	Name of the project	Implementing agencies	Approved cost (Rs.in Lakh)
1	Optical fiber based solar illumination of pit bottom and underground mine roadways and working face. [Project code: CIL/R&D/1/66/2017]	IIT, KGP & ECL, Sanctoria	155.53
2	Multiple layer trial blasting for better recovery with less diluted coal. [Project code: CIL/R&D/1/61/2016]	IIT-ISM, Dhanbad & CMPDIL, Ranchi	496.24

12.0 LABORATORY SERVICES

12.1 Chemical Laboratory

The Chemical Laboratory carried out characterization of coal for **31,000** no.of samples comprising **14008 m** of coal cores from **45** no.of exploration Blocks in 11 coalfields for incorporation in Geological Report. This is 6.9% more than achievement of previous year 2019-2020

Chemical analysis for 34 numbers GR was monitored and the results were submitted, which in turn resulted in submission of 15 number of geological reports (including IGR and compendium).

12.2 Coal Petrography Laboratory

A total of **913** nos.of samples analysed for determining the petrographic characters of coal samples from 42 no.of exploration blocks from 20 coalfields. This is 12.8% more than achievement of previous yr 2019-2020. The micro cleats study of **29** nos.of samples for CBM assessment study has been carried out.

- The Coal Characterization Lab is continuously carrying out testing on coking coal samples from BCCL command area for grading purpose. 40 nos.of samples have been tested during year 2020- 21.
- 15 no.s of imported coking coal samples from QSS Gujarat were tested under outside consultancy jobs.

- The coal characterization study also carried out for captive blocks for NTPC, ADANI Mining etc.

12.3 Coal Preparation Laboratory

Coal Preparation 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 2019-2020 is given below:

- a) Bore Core Coal Samples - 33 samples tested for washability analysis.

12.4 Mining Laboratory

ROCK MECHANICS/ROCK TESTING

1. Tests have been conducted for physico-mechanical properties on drill core samples of 3600 m.
2. Report on results of physico-mechanical properties of eight (08) boreholes of different coal blocks of CIL/ Non-CIL and Dongri - Buzurg mine of MOIL Ltd.(02 boreholes). Testing for physico-mechanical properties for three boreholes of coal blocks were in progress.

STRATA CONTROL STUDIES

1. Nine (09) reports on study of Rock Mass Rating (RMR) / SCAMP/ Cavability studies submitted.
2. Cumulative rock types tested (21 nos.) for determination of strength properties, slake durability index and density for RMR study.

13.0 ENVIRONMENTAL SERVICES

13.1 EIA / EMPs

CIL PROJECTS

During the year 2020-21 Environment Department prepared a total of 31 nos. of Form-1 (including Form IV & VI) and 9 nos. of Draft EMPs. A total of 40 nos. reports were prepared.

OUTSIDE PROJECTS

Following reports were prepared during 2020-21:

- Draft Report for Study on Fly Ash disposal from TTPS, NTPC into Quarry No.4 &7 of Jaganathn OCP of MCL.
- Toxicity Characteristics Leaching Property (TCLP) Test of ash of Ashpond at TTPS, Lalpania..
- EIA/EMP of Fly Ash disposal into Gorbi mine of NCL for VSTPS of NTPC.
- **Appraisal of Project report including Mining Plan & Mine Closure Plan** for North of Arkhupal OCP (Northern Part), Talcher Fertilizers and Bhalumuda OCP, NTPC.

13.2 Environmental Monitoring of Air, Water and Noise

Once MoEF&CC accords the Environmental Clearance (EC) to the mining projects, routine environmental monitoring is required to ascertain the efficacy of the pollution control measures taken at the project level during the operation and compliance of EC conditions.

During the year 2020-21, environmental monitoring of 311 projects/clusters/ establishments of CIL (ECL-16, BCCL-17, CCL-72, WCL-84, SECL-81, NCL-13 and MCL-28) were carried out through Nine environmental laboratories located at Asansol, Dhanbad, Nagpur, Bilaspur, Bhubaneswar, Kusmunda, Hasdeo, Jayant, and Ranchi.

Establishment of Continuous Ambient Air Quality Monitoring Stations (CAAQMS): CMPDIL has established 1 Nos. CAAQMS station in CMPDIL(HQ) and 11 nos. in various projects of MCL to monitor air pollutants parameter such as PM₁₀, PM_{2.5}, NO_x, SO₂ and CO on continuous basis and remotely transmit data to central server.

13.3 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



Analysis of Water Samples: A View of Environment Lab & CAAQMS installed at CMPDIL, HQ

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 no. of approved Experts in four sectors and 12 Functional Areas.

13.4 Accreditation of CMPDIL Environmental Laboratory

Environmental Laboratories of CMPDIL (HQ) Ranchi, RI-I, Asansol, 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) has also been recognized by Central Pollution Control Board (CPCB), Delhi under Environment (Protection) Act, 1986.

13.5 ETP/STP/AMD (IWSS) Scheme for Coal Projects

Four number of schemes/tenders were prepared during this year namely Scheme for Modification of STP & ETP for Kakri OCP of NCL, Scheme for Modification of STP of Bina OCP of NCL and Tender document preparation for ETP of CRS Barkakana.

13.6 Quick Comments and Scrutiny of check-list on Mine Closure Plan for Coal Blocks sent by MoC to CMPDIL

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

13.7 Appraisal of Project Reports for Coal Mining Projects

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



13.8 Development of 3 Tier web based EIA/EMP report peer vetting system

In order to ensure quality of the EIA/EMP reports prepared by CMPDIL, a 3 Tier web based EIA/EMP report peer vetting system has been developed and implemented with fully functional features.

13.9 Special Studies & S&T/R&D Studies

- CMPDIL is assisting MoC in formulation of Green Coal Strategy for the coal sector in India with the objective to minimise 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, mine water conservation and utilisation, mine tourism, utilisation of OB, sustainable mine closure etc.
- E-book on best sustainable practices adopted by subsidiary companies in CIL.
- The draft Status report of Mine Water Utilization.
- The draft report for Environment Sustainability in Coal PSU - Present Status and way forward under SDC for MoC (FY 2019-20).
- Study on Fly Ash disposal from TTPS , NTPC into Quarry No.4 & 7 of Jaganathn OCP of MCL.

- Study on carrying capacity of riverine ecosystem for Gondagaon OC of Pench Area, WCL and Basundhara (W) Extension of MCL.
- Draft Report for Preparation of DPR for development of Nigahi colony NCL as a mini smart colony.
- Draft Report on Integrated Solid Waste Management(ISWM) Scheme for NCL.
- A prepared technical paper on “Estimation of Water Requirement for Haul Road Dust Suppression in an Open Cast Coal Mine” is under publication.
- Environment division has filed Indian patent application with complete specification for synchronized application of wind break and vertical greenery system to control fugitive dust generation and movement.

13.10 Celebration of World Environment Day

The World Environment Day was celebrated on 5th June, 2020 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.





World Environment Day Celebrations

14.0 INFORMATION & COMMUNICATION TECHNOLOGY.

In addition to providing in-house support, CMPDIL has been extending consultancy services to CIL and its Subsidiaries. Some of the major jobs done during Financial Year 2020-21 are:

1. The following centralized software are also 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 (MDMS) Portal 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 and railway sidings.
 - j. A Coal Dashboard for MoC has been implemented which has information on Indian coal and lignite.



2. 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.
3. CMPDIL is maintaining Payroll, Financial Accounting and Personal modules of CoalNet system for HQ and RIs.
4. CMPDIL 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 500 Mbps dedicated Internet Leased Line through BSNL and 30 Mbps Secondary ILL through RailTel.
5. 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
6. 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.)
7. Replacement of servers at CMPDIL(HQ) has been completed

and commissioned in the month of July, 2020. A Disaster Recovery Centre (DRC) has been established at Nagpur

8. Coal India project server has installed and made operational.
9. Endpoint security software has been installed & made operational since October, 2020.

15.0 INFORMATION MANAGEMENT SYSTEM

The important activities / jobs carried out during the year 2020-21 are as follows:

15.1 Publication of quarterly magazines "Minetech" and "Gondwana Bharati"

Four issues each of the above said magazines have been published during the year 2020-21.

15.2 Dispatch of magazines

Apart from in-house distribution, approximately 12000 copies of both the magazines were dispatched during the year 2020-21 to MoC, CIL and its different subsidiaries (HQ, Area and colliery unit), different institutes and other known organizations.

15.3 Publication of Book

Publication of following books have been done during 2020-21:

- i. E-Book of Compendium of CVC/ CIL/MoC/DoPT/CMPDIL Circulars & Guidelines published on the occasion of Vigilance Awareness Week 2020.

15.4 Sale of Book

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.

15.5 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.

15.5 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 S&T published and the second on Blasting is in the process of publication.
- iii. Due to continuous monitoring and follow up, the number of followers on social media like FB & twitter crossed the mark of 6000.

16.0 VIGILANCE

Vigilance activities and achievements during financial year 2020-21 is placed below:

16.1 Vigilance Awareness Week

Vigilance Awareness Week-2020 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 27th October to 2nd November 2020.

At CMPDIL (HQ) in Ranchi, the Pledge taking ceremony was organized on

27.10.2020 at 11.00 AM. Sri Sumeet Kumar Sinha, CVO, CMPDIL welcomed the officials and threw light on Vigilance Awareness Week and its theme. He also urged the officials to take the Integrity E-Pledge as well as encourage their family members and friends for taking Integrity E-Pledge. Shri Shekhar Saran, CMD, CMPDIL administered the Pledge to all officials. Pledge was also administered at all seven Regional Institutes of CMPDIL by their respective Regional Directors.

The following programs were organized during Vigilance awareness Week-2020 at CMPDIL and due care was taken to follow COVID-19 Protocol during outreach programs for schools.

- a. Online Quiz Competition & Online Painting Competition were organized for students of Class VIII to XII of schools in and around Ranchi. In all the events organized in schools, cash prizes and certificate of achievements were given to the top three participants. Certificate of participation and T-shirts were also given to all the participants of school to appreciate their effort.
- b. Social media was used in a big way to spread awareness about Vigilance Awareness Week 2020 and its theme "सतर्क भारत-समृद्ध भारत" (Vigilant India-Prosperous India)". Activities were uploaded on social media on daily basis. Hyperlink to the CVC's website for taking integrity pledge was available on CMPDIL website to help employees, family members & other stake holders to take integrity e-pledge. Bulk SMSs were also sent to public about vigilance awareness. Daily Press briefs in Newspaper, Twitter, Facebook and WhatsApp were also used extensively to

communicate with the public as well as the stakeholders of CMPDIL. Vigilance Awareness campaign was also launched through FM radio as an outreach for general public. Banners were displayed at prominent locations inside the campus and at various places.

- c. Similar programmes were organized across all seven Regional Institutes for vigilance awareness among student community in different educational institutes.
- d. A guest lecture was organized by Vigilance Department CMPDIL, Ranchi in the concluding session of VAW, 2020. On this occasion, Sri L.N. Mishra, Retired Director (Personnel), Mahanadi Coalfields Limited deliberated on the topic **“Vigilant India, Prosperous India.”**
- e. At the end of concluding session, an E-Book on Compendium of Circulars/ Guidelines/SOPs etc. of CVC, CIL and CMPDIL compiled by Vigilance Department was also released by CMD, CMPDIL.

16.2 Preventive Vigilance

- 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.
- b. It is heartening to share with you that Bureau of Indian Standards (BIS) has informed on 18.01.2021 to CMPDIL about the grant for Anti-Bribery Management System Certification Licence as per IS/ISO 37001 : 2016.

The number assigned to the licence granted is ERO/ABMS/L-5000019 which has been made operative from 18.01.2021 to 17.01.2024.

The said certification licence has been granted to CMPDIL for prevention, detection and response to bribery for all activities of mineral exploration, mine planning & design environment management, management system, allied engineering, provision of human resource trainings, internal support services for employees and other business processes, including all associated laboratories of CMPDIL HQ, Ranchi.

- c. System improvement measures are suggested time to time as per outcome of vigilance investigation. Surprise checks at HQ and at its various Regional Institutes (RIs) are 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.
- d. Identification of sensitive posts and transfer/rotation of personnel occupying such posts for long are suggested by Vigilance Department, which have subsequently been implemented.

16.3 Pictorial Depiction of Vigilance Activities





Oath Administration by CMD, CMPDIL during VAW, 2020

17.0 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 etc.

17.1 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 2020-2021, Land Reclamation Monitoring of total 111 projects comprising of 51 Opencast Projects producing more than 5 mcm (Coal+OB) p.a. category and 46 opencast projects, 09 clusters and 5 UG mines producing less than 5 mcm (Coal+OB) p.a. category under different subsidiaries of CIL have been successfully completed.

17.2 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 2020-21, Vegetation cover mapping of seven coalfields viz Umrer and Pench Kanhan Coalfields (WCL), Ib Valley Coalfield (MCL), Mand Raigarh and Sohagpur Coalfields (SECL) has been successfully completed.

17.3 Land Use / Cover Mapping

Land Use / Cover Mapping of Core & Buffer Zone based on satellite data of 6 Opencast Projects were done during 2020-21. Land Use Cover Map for the leasehold area of 8 UG projects of SECL was also completed during 2020-21 for MoEF & CC compliance. In addition to this, Land Use / Cover mapping of Core and Buffer Zone of West Bokaro Colliery of M/s Tata Steel has also been completed successfully.

17.4 Settlement Mapping

Detection of unauthorized structures using high resolution satellite imagery in expansion areas of Kaniha and Hingula OCPs of Mahanadi Coalfields Ltd. has been successfully completed.





17.5 Procurement of Drones (UAVs)

In new technology adoption CMPDIL has procured drones for surveying and mapping applications. The first drone has been supplied in December 2020 equipped with state-of-art LiDAR, Optical and Thermal sensors. The second drone is also supplied in the last week of March 2021. Flying / Operating Drones in India requires permission from Ministry of Civil Aviation. CMPDIL has been granted conditional exemption to operate Drones in coalfield areas of Coal India Limited.

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 has been awarded in March 2021. Tenders for other subsidiaries will follow soon

17.6 Gyroscopic Survey

Geomatics Division has successfully conducted Gyroscopic Survey for determination of GYRO-Azimuth at 18 places in 4 tunnels in Katra-Banihal Section of Udampur-Srinagar-Baramullah Rail Link (USBRL) Project for M/s IRCON International Limited. This is a prestigious railway project of Government of India in Jammu & Kashmir. This survey was successfully completed in the month of January 2021.

17.7 OBR/ OB+Coal Measurement

Survey in 196 Contractual Patches and 22 departmental mines of CIL, done. OGL and excavation measurement jobs done in Pakri-Barwadiah, Dulanga & Talaipalli Coal Mining Projects of NTPC.

17.8 DGPS Survey

DGPS survey for preparation of plan as per revenue records for Pachhara

South Coal Block of M/s Neyveli Uttar Pradesh Power Limited (NUPPL), done. Consultancy services for superimposition of cadastral map along the alignment/ layout of Coal evacuation corridor and railway siding of Amelia Coal Mine, Singrauli of M/s THDC, done. Preparation of Shape & Kml files for forestry clearance of twelve (12) projects, was also done.

18.0 MINING ELECTRONICS

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 companies in repairing and calibration of methane gas detectors used in underground mines for safety purpose, as well as in repairing of Imported/Indigenous HEMM Electronic control cards. The department has also undertaken the R&D/S&T Projects for Open Cast and Underground Mines. The following jobs were completed during the year.

18.1 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 5 base unit and 1 pro unit is successfully completed.
- 2) MoC S&T Project – “Indigenous development of Early Warning Radar System for Predicting Failure/Slope Instabilities in O/C Mines”- Lab Testing completed.
- 3) CIL R&D Project- “Indigenous development of Through the Earth (TTE) two-way Communication system for Underground mines”- Field trial of receiver part successfully completed.

18.2 P&D/NIT/other jobs

- 1) Preparation of DPR for the development of 03 mini smart cities/ colonies in CIL subsidiaries.
- 2) Chapters on Electronics & Telecommunication for 27 Nos. of U/G and OCP for inclusion in Project Reports of different subsidiaries of CIL and outside agencies have been prepared.”

18.3 Repairing / Calibration / Testing of Electronic Cards/Gas Monitors

- 1) Repairing of electronic HEMM control cards -66 Nos.

19.0 COAL CHARACTERISATION & LABORATORY

CMPDIL comprises Chemical & Petrography Laboratory. The Chemical and Petrography labs are engaged in carrying out Systematic and detailed characterization of coal at exploration stage is being carried out on routine basis for incorporation in Geological Report. Systematic characterization of raw & clean coal samples (washery products) is being carried out for ascertaining the clean coal properties. Systematic characterization of coal samples for CBM assessment.

The Chemical Lab is carrying out tests such as proximate analysis, ultimate analysis, and gross calorific value determination. For coking coal specials tests such as free swelling index, LTGK coke type and Plastometric Test are carried out. Ash fusion temperature range determination, HGI tests for non-coking coals are also done.

The Chemical Lab is equipped with conventional and sophisticated equipments like Thermogravimetric Analyser for proximate analysis of coal/

coke/lignite, automatic Bomb Calorimeter for determination of gross calorific value of coal & lignite, CHNS apparatus for determination of Carbon, Hydrogen, Nitrogen & Sulphur, AFTR instrument for Ash fusion temperature range (IDT, ST, HT & FT) of coal, Plastometer for determination of plasticity of coal and other equipments for conducting manual tests and Special Tests .

The Petrography Lab is carrying out petrographic analysis such as determination of maceral composition, random reflectance (RoR %) and mean maximum reflectance % (MMR %). This study is done to determine the coal-type and coal rank of the samples. This study is also useful for source rock evaluation for Hydrocarbons, Oil Shales, Coalbed Methane and Shale Gas assessment. Mega cleat and micro cleat study for CBM assessment is also undertaken in this Lab.

The Petrography Lab is equipped with state-of-art equipment like Advanced Polarizing Microscope with Photometer attachment for maceral analysis and reflectance measurement, Scanning Electron Microscope with Energy Dispersive Spectrometer for micro cleat study. It also has Grinding and polishing machine, Abrasive cutting machine and Hot mounting press for preparation of coal pellets for Petrographic studies and cleat study.

Special Achievements

A. Procurement

CMPDIL has procured the following equipmentt

- **Wavelength Dispersive X-Ray Fluorescence Spectrophotometer** – for Ash Analysis.



- **Mercury Analyzer:** for Mercury Analysis in solid and liquid samples.
- **Fully Automatic Jaw Crusher and Pulveriser:** for effective and pollution free coal sample preparation.
- **Automatic Polishing Machine:** for polishing of petrography samples.

B. Projects under Implementation

- Coal Characterisation Division has taken up a project on Augmentation of Capacity of coal core analysis by introducing automation in sample preparation and by addition of analytical equipment having state-of-the-art technique. On existing and incremental basis the Lab will process 24000m of coal cores and around 85000nos. of samples per annum.
- One S&T Project has been taken up titled '**Assessment of Rare Earth Elementals (REE) and other economic resources in Coal & Non-Coal strata and Characterization of Acid Mine Drainage (AMD) and its pollution control from the North Eastern Region (NER) Coalfield,India**' The project has been taken up in collaboration with Punjab Technical University, Chandigarh and Duke University, Durham, USA

20.0 MANAGEMENT SYSTEM CONSULTANCY FOR CIL & ITS SUBSIDIARIES

Over the years, CMPDIL has substantially expanded its capabilities in the field of consultancy service for implementation of the various management systems, like ISO9001 - Quality management systems, ISO 14001 - Environmental management systems, OHSAS 18001 / ISO 45001 –

Occupational health & safety management systems, ISO/IEC 27001 – Information security management systems, ISO 50001-Energy management systems, SA 8000 – Social Accountability, ISO 17025 -Requirements for the competence of testing and calibration laboratories and ISO37001 – Anti-Bribery management systems.

CMPDIL provides such consultancies through the design and implementation of either the individual management system or Integrated Management Systems (IMS) conforming simultaneously to the requirements of different management systems standards, facilitating the creation and documentation of management systems, providing trainings, initial implementation, and support/guidance during certification and post certification period, etc.

As on date, three of our subsidiaries, NCL, ECL & CCL have certification for their company wide Integrated Management System complying with the requirements of ISO9001:2015, ISO 14001:2015 and ISO 45001:2018/OHSAS 18001:2007. A total of 45 units of WCL are also certified against these 03 standards. BCCL & MCL are also in the process of establishment of the company wide integrated management system.

CMPDIL(HQ) with all its seven regional institutes are certified to ISO 9001:2015 standard. CIL HQ is certified to ISO 9001:2015, ISO 14001:2015 & ISO 50001: 2011.

DURING 2020-21:

As a consultant, we were instrumental in the achievement of company wide certification of ECL and NCL for ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

All the necessary support and guidance, were provided for the successful establishment & implementation of the systems and subsequently obtaining certification for the above standards.

During the year, CMPDIL provided support and guidance to ECL at the time of certification audit conducted by external certification body. CMPDIL also upgraded the existing IMS manuals of ECL, BCCL, CCL, WCL, NCL and MCL as per the requirements of ISO 45001:2018. CMPDIL conducted awareness trainings and Internal Auditors Skill development training for CIL(HQ), ECL, BCCL and NCL, which is also required for transition into the latest version of the international standards.

Implementation of Anti-bribery management system for CMPDIL (HQ) incorporating the requirements of ISO 37001:2016 and getting certification against this standard is also done. CMPDIL has become the first unit of CIL to achieve certification against this standard.

Training programs on general awareness of standards and Internal Auditing Skills were arranged and conducted online as well as on site for CIL subsidiaries and NTPC.

CMPDIL has also completed a job received from Pakri Barwadih Coal Mining Projects of NTPC, Hazaribagh for providing consultancy support and guidance for the establishment, implementation and certification of this mine against ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

CIL HQ is certified against ISO 9001:2015, ISO 14001:2015 and ISO 50001:2011 for Quality Management, Environment Management and Energy Management System respectively from Bureau of Indian Standards (BIS).

PLANS FOR 2021-22:

CMPDIL HQ :- Implementation of standards, ISO 14001:2015, ISO 50001:2018, and ISO 27001:2013 along with ISO 9001:2015 & ISO 37001:2016 are under progress. Enhancement of scope of certification for ISO 37001:2016 in all Regional Institutes (in phase-wise) is expected during this period.

MANAGEMENT SYSTEM CONSULTANCY FOR CIL SUBSIDIARIES AND OTHER CLIENTS:-

Implementation & certification of Integrated Management System as per revised standards in ECL and NCL incorporating ISO 45001 in place of OHSAS 18001 have been completed. Support and guidance will be provided to all subsidiaries and CIL(HQ) in implementation of their updated system documents including their transition /surveillance audits.

Training programs on general awareness of standards and Internal Auditing Skills will be organized and conducted at STC CMPDIL and IICM for CIL HQ and all its subsidiaries as per their requirement.

CMPDIL has also received a job from Talaipalli Coal Mining Projects of NTPC, Chhattisgarh for providing consultancy support and guidance for the establishment, implementation and certification of this mine against ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018. This outside consultancy work is expected to be completed during the F.Y 2021-22.

21.0 MATERIAL MANAGEMENT

The following highlights of activities for the year 2020-21 are as under:-

1. SUPPLY ORDERS :-

SI No.	Particulars	2019-20 (₹ in Crore)	2020-21 (₹ in Crore)
1	Total Procurement Value	64.82	34.45
2	Total Value procured from MSEs	29.77	17.31
3	% Age of procurement from MSEs	45.92%	50.25%

- The total procurement value in 2020-21 is approximately 15% higher than the CMPDIL's targeted procurement of ₹ 30.00 Crore for the year as per Annual Report.
- The % of procurement from MSEs is well above the Government of India mandated target of 25%.

2. GeM :-

Particulars	2019-20	2020-21	Remarks
Value of Supply order	4.99 Cr	15.10 Cr	The % of procurement from GeM for 20-21 is 44% of total procurement of the year; well above the mandated target of 25%.

3. IMPORTANT CONTRACTS:-

- Rate contract for supply of spares for Hydrostatic drills for 2 years at an estimated off take of ₹ 6.19 Crores, for maintenance of Hydrostatic Drills post AMC period.
- For enhancing the testing and analytical capacity of laboratories in CMPDIL, supply orders for Important Equipment such as Automatic Wavelength Fluorescence Spectrometer, Automatic Mercury Analyser and Absorption Isotherm were placed.
- Supply Orders for Equipment/Software such as Seismographs, DGPS, Matlab/Surpac/Minex Software have been placed for strengthening the exploration / surveying job.

4. TARGET (2021-22) :-

The Targeted Annual Procurement for Financial year 2021-22 is ₹38.00 Crore out of which ₹12.00 Crore (Approximately 30%) is estimated for procurement from MSEs subject to participation of MSEs in the tenders issued by CMPDIL.

22.0 HUMAN RESOURCE DEVELOPMENT

During the year 2020-21, Online Training/Conference /Seminar/Workshop Data of CMPDIL is as under:-

Major Area	STC	IICM	External	Foreign	Total
Managerial	242	28	12	0	282
Technical/Functional	253	70	124	0	447
Cross Functional	34	11	21	0	66
Total	529	109	157	0	795

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 **529 employees have been trained**, against the target of **500** employees on different technical & non-technical subjects which are need based and customized, some are mentioned below :-

- Session on Awareness Program on ISO 37001 and documented arrangements under anti-bribery mgt. system of CMPDIL
- Training on CIL MS project CM(N)
- Training on Management Lab Software
- Webinar on Change Management & Effective Mind Mapping
- Training on Integrated/ Converged Infrastructure (Server)
- Online Programme on Investment Education and Learning on Retirement Planning.
- Training Programme on 3D Terrestrial Laser Scanner
- Online Training on Slope Stability for the Member of Geo-Technical Cells.
- Webinar on Ventilation System Design & Analysis
- Two Days online ETP STP Training for Coal Mining, CMPDIL.
- Online Training Programme on Effective Implementation of ISO 9001, 14001 and 45001 in ECL
- Online Awareness Program on ISO 9001,14001 & 45001
- Online Internal Auditing Skills Training (ISO 9001/14001/45001)
- Half Day Training to 80 Nos. of Contractual Workers of CMPDIL

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 **2020-21 total 109 executives** have done Online trainings.

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 157 nos. of executives and non-executives have attended On-Line programs from different places in India.

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

- GSI Training Institute Hq Hyderabad.
- National Institute of Training for Standardization Bureau of Indian Standards
- Indian Institute of Remote Sensing (IIRS)
- Germei Gujarat.
- Essar Oil and Gas Exploration and Production Limited.
- Geological Survey of India Training Institute Hyderabad.
- Regional Training Institute, Eastern Region Kolkata
- RGNGWT&RI (Rajiv Gandhi National Water Training & Research Institute) Raipur
- IIT Kharagpur
- Mission Energy Foundation
- Coal India Ltd
- Northern Coalfields Ltd.
- Alchemist Aviation Pvt. Ltd. Jamshedpur
- CIRC of ICAI Ranchi Chapter
- Jharkhand Technical University (JTU), Ranchi
- Legal Regime, Law Skills Noida

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 37 numbers of students have been trained at CMPDIL during 2020-21. 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 4171 as on 31st March'2020*). CMPDIL has engaged **166 apprentice's which is 3.98%**. This includes various disciplines viz. drilling, mechanical, civil, computer science, mining etc. and are placed indifferent RI's & HQ of CMPDIL.

22.6 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) In Centre of Excellence within India e.g. IITS, IIMs, NITS, ICAI etc. CMPDIL has achieved i.e.**89 executives trained in center of Excellence i.e. 10.8%**.

23.0 MANPOWER AND WELFARE ACTIVITIES

23.1 Status of Manpower:

Particulars		As on March 31, 2020	As on March 31, 2021
Executive		862	830
Non-Executive	Monthly Rated	1038	1091
	Daily Rated	1262	1154
	Piece Rated	00	02
Grand Total		3162	3077

23.2 Welfare Activities

WELFARE ACTIVITIES in CMPDIL, HQ (During the financial year 2020-21)			
SL No.	Welfare Activities	Program Date	Remark (If any)
1	Celebration of AMBEDKAR JAYANTI	14 April, 2020	14 April 2020
2	Observance of Anti-Terrorism Day On 21 st May 2020.	21 May, 2020	Pledge administered by GM (P&A). Display of Banner & Posters.
3	Observance of "World No Tobacco Day	31 May 2020	Pledge Tobacco free office
4	CDAP	01.07.2020 to 15.11.2020	01.07.2020 to 15.11.2020



5	Swachhta Pakhwada	16 Sep. to 02 Oct. 2020	16 Sep. to 02 Oct. 2020
6	Independence Day 2020	15 August, 2020	15 August, 2020
7	CMD's Vs. Director's Football Match	15 August, 2020	15 August, 2020
8	Run for Unity	31 October 2020	31 October 2020
9	VIGILANCE AWARENESS WEEK	27 October 2020	27 October 2020
10	Foundation Day	01 November 2020	01 November 2020
11	Constitution	26 November, 2020	26 November, 2020
12	Communal Harmony	27 November, 2020	27 November, 2020
13	Workshop on Gender Awareness And Gender Sensitization	18 December 2021	18 December 2021
14	New Tear Celebration 2021	1 st January, 2021	1 st January, 2021
15	जल शपथ	1 st January, 2021	1 st January, 2021
16	Republic Day Celebration 2021	26 th January, 2021	26 th January, 2021
17	CMD's Vs. Director's Cricket Match 2021	26 th January, 2021	26 th January, 2021
18	International Women's Day 2021	08 th March, 2021	08 th March, 2021
19	Bharat Ka Amrut Mahotsav	12 th March, 2021	12 th March, 2021

23.3 Major Information related to Executive Establishment for the Year 2020-21 :

Sl. No	Annual Work plan	Action taken
1	Settlement of Terminal benefits	41
2	Payment of Life Cover Scheme	01
3	Issue of medical cards under CPRMSE	47
4	Leave Encashment on Superannuation Cases receive	34
5	Settled	23
6	Under Process	11
7	Medical refer Cases	683

23.4 Information related to RTI during the year 2020-21:

Sl. No	Work Description	
1	Total No. of applications received	76
2	Applications disposed off during the year	63
3	Under process	13
4	Appeal received during the year	03
5	Appeal disposed off	03
6	Balance	00
7	CIC (2nd Appeal Application received)	02
8	CIC Appeal Disposed off	02

23.5 Information related to CPGRAM during the year 2020-21:

SI No.	Grievances Source	Total Application received	Application Disposed Off	Balance/ Under Process
1	Local/internet	32	31	1
2	Pension	0	0	0
3	PMO	15	15	0

23.6 Information related to VIP reference during the year 2020-21:

SI No.	Grievances Source	Total received	Disposed Off	Balance/ Under Process
1	Local internet	25	18	7

23.7 Status of Pension during the Year 2020-21:

SI. No	Total Cases received during the year	Settled	Pending			Remarks
			CMPDIL	CMPFO		
1	104	56	15	33		

23.8 Information related to Non-Executive employees during the year 2019-20:

SI. No.	Annual Work Plan	Action Taken
1	Settlement of Terminal Benefits	113
2	Payment of Life Cover	19
3	Issue of Medical card Under CPRMSNE	110
4	Leave Encashment on Superannuation Cases Received	83
5	Settled	59
6	Under Process	24

23.9 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 C M D/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, 2020, "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 was also organized a meeting 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.

24.0 DISCLOSURE AND INFORMATION UNDER SEXUAL HARASSMENT TO WOMEN:

The numbers of compliant or cases of sexual harassment to women at working place in CMPDIL has been reported during the year 2020-21 under the disclosure and information under sexual harassment to women at work place (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 - 01
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
5. Nature of action taken by the employer or District Officer with respect to the case. – The case was disposed of with the recommendations of the internal complaints Committee as the nature of the case was more of a personal / family dispute rather than sexual harassment at workplace.

25.0 Achievement against Physical Parameters of MoU 2020-21 between CMPDIL & CIL:

25.1 Drilling:

As per MoU 2020-21 of CMPDI, Under the head "Drilling (in Lakh Meters), Sl. No. 4 Part-B', the target for attaining 'Excellent' rating was 11.00 lakh metres of drilling. Against this target, 12.48 lakh metres of drilling was carried out during 2020-21.

25.2 Acquisition of data through 2D/3D Seismic Survey:

As per MoU 2020-21 of CMPDI. Under the head 'Acquisition of data through 2D/3D Seismic Survey (Line KM). Sl. No. 6 Part-B', the target for attaining 'Excellent' rating was acquisition of data through 2D/3D Seismic Survey for 500 Line KM. Against this target, 295.37 Line KM of data through 2D/3D seismic Survey was acquired during 2020-21.

25.3 Preparation & Submission of Geological Reports:

As per MoU 2020-21 of CMPDI, Under the head 'Preparation & Submission of Geological Reports (Nos.)', Sl. No. 6 Part-B', the target for attaining 'Excellent' rating was preparation & submission of 26 nos. Geological Reports. Against this target, 26 nos. Geological Reports were prepared and submitted during 2020-21.

25.4 Preparation and submission of Project Reports:

As per MoU 2020-21 of CMPDI, under the head 'Preparation and submission of Project Reports (Nos.) Sl. No. 7, Part-B', the target for attaining 'Excellent' rating was preparations & submission of 33 nos. Project Reports Against this target, 33 nos. Geological Reports were prepared and submitted during 2020-21.

25.5 Capital Expenditure under R&D:

As per MoU 2020-21 of CMPDI, Under the head 'Capital Expenditure under R&D (Rs. Crore). Sl. No. 9, Part-B', the target for attaining 'Excellent' rating was capital expenditure under R&D of Rs. 25 crore. Against this target. Capital Expenditure under R&D of Rs. 12.29 (un-audited) crore has been made during 2020-21.

25.6 GeM procurements for FY 2020-21:

As per MoU 2020-21 of CMPDI, under the head 'Percentage of procurement of goods and services through GeM portal to total procurement of goods and services during the previous year i.e. 2019-20 (%)', Sl. No. 10, Part-B', the target for attaining 'Excellent' rating was 25%.

As per decision against agenda No. 1 i.e. issued on "GeM related parameter" for MoU 2020-21 of the Minutes of Meeting dated 5th July, 2021 issued by CIL it has been stated that the "numerator value for GeM parameter (i.e. % procurement of Goods and Services through GeM Portal to total procurement of Goods & Services during pervious year i.e. 2019-20") shall be the ordered value on GeM Portal for the current year i.e. 2020-21 & the demominator value (2019-20) shall be the value which were circulated earlier in this regard.

The ordered value on GeM Portal for the year 2020-21 is Rs. 15.10 crore for procurement of goods and services through GeM Portal. Total procurement of goods and services (Net Actual Procurement) during the previous year i.e. 2019-20 was Rs. 52.16 crore (communicated by CIL). Therefore, against the target of 25%. Percentage of procurement of goods & services during the previous year i.e. 2019-20 achieved during 2020-21 was 28.95%.

% of Procurement of Goods & Services through GeM portal to total procurement of Goods & Services during the previous year i.e. 2019-20"			
Compa-ny	Net Actual Procurement in FY 2019-20 (Rs. Cr.)	FY 2020-21 Order Value in Rs. Cr.	FY 2020-21 Achievement in %
CMPDIL	52.16	15.10	28.95%



26.0 COAL INDIA FOUNDATION DAY CELEBRATED IN CMPDIL.

Ranchi 11th November: CMPDIL, a Mini-Ratna Company, celebrated the Coal India Foundation Day with full fervor on 11th November, 2020 at Mayuri Hall, CMPDIL. The Chief Guest of this occasion, Padmashree Dr. Rabi Narayan Bastia in his speech said that Coal India has been at the forefront of meeting energy security of the country and CMPDIL has been the driving force in this endeavor. He said that dependence on coal to meet the energy requirement of the country is here to stay despite the thrust on use of non-renewable energy. He emphasized on continuous updation of technology in the field of mining including the use of artificial intelligence, drones, coal gasification and liquefaction, etc. which will reduce operational and maintenance cost. He further said that use of 3D seismic survey in the field of exploration will enhance the resource base of the country significantly.

On this occasion, Shri Shekhar Saran, CMD, CMPDIL told that a joint exercise of CMPDIL and GSI has enabled to increase the coal bearing area of the country from 19400 sq km to about 32760 sq km covering 62 coalfields during 2019-20. An increase of 59% in prognosticated coal bearing area leads to expand the coal exploration activities in about 13700 sq km of the country and in turn help in meeting the coal demands of the country in future. In order to fulfill the commitment of India's INDC, CMPDIL being the Principal Implementing Agency is helping CIL and its subsidiaries in implementation of CBM/CMM projects. This is a promising area where CMPDIL has to go a long way to provide clean energy to the country. IT services is another area that has immense potential to expand in near future. With almost all the engineering components of coal mining

now requiring IT services in one form or the other and demand from CIL/MoC to have effective implementation and monitoring mechanism, there is tremendous growth opportunities in this area. In the recent past CMPDIL has expanded its horizons to meet the emerging requirement of coal section in land use monitoring, introduction of UAV, latest survey equipment. etc. Research and development in the area of emerging mining technology, exploration, environmental management and clean energy is a promising area which also provides a lot of opportunities.

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, Gopalpur Camp, RI-VII, Bhubaneswar got the award for the best drilling camp (Mechanical) and Kusmunda Camp, RI-V, Bilaspur (Hydrostatic) category.

Under the best drill crew category award (highest productivity), crew of Drill CMME-1000-01 (Korba), RI-V, Bilaspur, CMKR-WAIIIC-07 of Singhpur Camp and KR-WAIIIC-12 Rajnagar, RI-V, Bilaspur got the award for mechanical and hydrostatics drills, respectively.

For best performance in report preparation, awards were given to Shri Asit Kumar Roy, CM (Excv.) for Opencast Report and Shri Sanjay Barnwal, Dy. Manager (Mining) for Underground Report, Shri S.R. Pandit, GM(Geology) and his team of RI-I, Asansol for Geological Report, Shri Rajesh Ralhan for Environmental Services; Shri Lakshmi Reddy Lella & Shri S. Rajkumar for involvement in the planning of pipe conveyer of Hingula & Bhubaneswari CHPs of MCL and Shri Murari Prasad and his team for involvement in 35

FMC projects initiatives to upgrade coal evacuation infrastructures from pitheads to dispatch points in Infrastructural Planning.

HoD (Env.), RI-V, Bilaspur; HoD (Env.), RI-VI, Singrauli; Shri Somnath Ray and Shri N.S.S. Sairam got the award for outstanding performance in 'Lab', 'Exploration' and 'Financial' services, respectively. Shri P.K. Bisoi got the award for outstanding performance in sports.

GM (OC), CMPDI (HQ) got the award for maximum value of outside consultancy jobs obtained in 2019-20; RD, RI-VI, Singrauli for Maximum growth in outside consultancy jobs in 2019-20.

Awards for 'Innovation for Fugitive Dust Control by deploying Wind Break (WB) and Vertical Greenery System (VGS) in the mines of CIL' was given to HQ team of Shri Abhijit Sinha, Shri P.C. Jha and Shri Amarjeet Singh.

Under CSR, RI-VII, Bhubaneswar, got the award for maximum utilization of CSR Budget in 19-20 and Regional Institute-IV, Nagpur got the award for maximum expenditure in remote areas, amongst all the RIs.

Shri V.C Pandey, Shri Nilesh Kumar, Shri Rahul Saxena, Shri Suresh Behera, Shri D.K. Gupta, Shri Sandeep Kumar, Shri Saurabh Kishore, Smt. Shilpi, Shri S.C. Prasad and his team, Dr. Shreedhar Bhatt and his team, Shri Rajiw Lochan, Ex-GM (CBM) and his team, Shri Kintali Naveen and Shri K.M. Darwin got 'Special Achievement' awards.

Shri Gopal Prasad, Dr. Arun Kr. Panda, Shri B. Srinivasu, Shri Utpal Chakaraborty, Shri R.N. Sur, Shri G.K. Mishra got the lifetime achievement award for excellent contribution in their respective fields. Additionally, Smt. Pankaj Sahu, Shri Yadvendra Kumar, Smt. Pallabi

Chakrabarti, Smt. Shweta Saini, Shri Abhishek Kumar Singh and Shri Navin Kumar got the 'Young Executive' awards. Moreover, Shri Abhilash Das, Smt. Roshni Bara, Shri T.F. Nagpure, Shri Shivam Verma 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); 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.





27.0 ACTIVITIES OF FORUM OF WOMEN IN PUBLIC SECTOR (WIPS) CMPDIL IN 2020-21.

The office bearers and Executive Members of the newly formed “Functional Management Committee” of WIPS, CMPDIL Chapter (HQ & RI – III) as follows:

1. Coordinator/ President : Smt. Sunita Mehta, GM (P&A)
2. Addl. Coordinator/ Vice President : Smt. Vinita Arora, Sr. Manager (Env)
3. Executive Member : Ms. Mamta Toppo, Sr. Manager (Pers.)
4. General Secretary : Smt Zeba Imam, Chief Manager (Geology)

27.1 Major activities conducted from April, 2020 to March, 2021:

Project Swawalambi.

A workshop was organised by WIPS, CMPDIL in association with the CSR team under project Swawalambi on 28th February 2020, 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 program was inaugurated by Smt. Mita Sharan, President, Kasturi Mahila Sabha in the premises of RI-III, CMPDIL.

The program was also graced by the presence of Sri Manoj Kumar, RD, RI-III, Sri MSA Khan, CM (Personnel), HRD Dept. and others, where they gave their valuable views on necessity of women self-employment and its necessity for their progression and survival in the society.

Ms. Zeba Imam, Chief Manager (Geo)/ General Secretary, WIPS CMPDIL introduced the program and the participants among the assemblage. Ms. Mamta Toppo, Sr. Manager(P)/Executive member, WIPS CMPDIL informed about the features and benefits of the program. The program was attended by many WIPS members. Trainers from Usha International Limited also shared the details of the training program

Certificates for successful completion of training was distributed among the women of previous year's batch consisting of 10 women of nearby areas and a fresh batch of 15 women was inducted for undergoing training under this project.

After successful completion of the training, the women will be given the work of stitching uniforms for the students of Gondwana Primary School and Birsa Ucca Vidhyalaya and certificates of successful completion of training by them which will enable and ensure employment for them or to carry on any new business venture on their own.





as per their age group- below 20 years of age, between 20-40 years of age and above 40 years of age and related in take of nutrients to overcome these health issues. She also created awareness about the cancers linked to women's health- Uterine cancer and Breast cancer.

The webinar was attended by around 60 women employees of CMPDIL HQ and Regional Institutes

27.3 Sewa Saptah Abhiyan – September 2020

WIPS CMPDIL as a part of Sewa Saptah Abhiyan organized medical camps and mask/sanitizer distribution camp at nearby villages.

Food packets were also distributed among the poor and needy people.

WIPS members distributed face masks and sanitizers among the villagers and made them aware of COVID-19 and importance of wearing masks and using hand sanitizers frequently to fight against novel corona virus.

27.2 Webinar on Women's Health on 7th September, 2020

A webinar on Women's Health and wellness was organized by WIPS CMPDI in association with Dr. Reddy's Foundation for Health Education on 07th September 2020.

Dr. Anju Kumar, MD, DGO, Consultant OBS & Gynae, Infertility specialist, Hysteroscopy & laparoscopy surgeon, was the speaker of the webinar.

Dr. Anju Kumar educated the women employees of CMPDIL about different health issues that are faced by women





27.4 Donation Camp for Sanitary Pads- PAD SQUAD

With an initiative to spread awareness about menstrual health and hygiene, WIPS CMPDIL in collaboration with PAD SQUAD, installed a “PAD PETI” in the office premises basement area for collection of sanitary pads. The boxes were installed in the basement area for a period of one week from 12th Oct 2020 to 18th Oct 2020.

The collected pads were distributed among the women and girls of nearby remote villages so that they can get access to sanitary pads to manage their periods.

In addition to the sanitary pads, monetary contribution was also provided by WIPS members so that the money could be used for purchasing more sanitary pads and higher number of women and girls can get benefited from it.

27.5 Workshop on “Gender Awareness and Gender Sensitization (Sexual Harassment of Women at Workplace (prevention, prohibition and redressal) Act 2013)”, 18th December 2020.

A one day workshop on Gender Awareness and Gender Sensitization (Sexual Harassment of Women at Workplace (prevention, prohibition and redressal) Act 2013)”, was organized at Conference hall, CPEI Main building,

CMPDIL HQ, on 18th December 2020, under the aegis of Forum of Women in public sector, CMPDIL.

The workshop was attended by around 50 male and female employees (executives and non-executives) of CMPDIL HQ and RI-III. Other Regional Institutes were connected to the workshop through video conference.

Professor (Dr.) Raman Ballabh, a distinguished academician and senior resource person, Indian Institute of Corporate affairs (Ministry of Corporate Affairs) was the guest speaker at this workshop.

The inaugural function was graced by the presence of Sri S. K. Gomasta, D (T/CRD), CMPDIL, who enlightened the participants with his valuable insights on the topic.

GM (P&A)/WIPS coordinator Smt. Sunita Mehta, started off the workshop with the welcome address.

Prof. (Dr.) Raman Ballabh educated the employees about the various provisions defined under the law relating to prevention of sexual harassment through different examples, illustrations and case studies. He made them aware of the important aspects that should be infused in our day to day behavior which can minimize gender biasness and inequality at the workplace. He further emphasized on the need of coming together for upliftment and betterment of each other for creating a well-balanced work environment.

It was a very enriching and enlightening experience for all the participants who took away valuable inputs from the workshop.

The workshop ended by vote of thanks by Smt. Zeba Imam, CM (Geo)/General Secretary WIPS.

27.6 Webinar on “ Women in leadership: Achieving an equal future in a COVID-19 world”.

A Webinar was organized by WIPS Eastern Region for all the women employees of public sector on the topic-“Women in Leadership: Achieving an equal future in a COVID-19 world”, on 03 Feb 2021.

The webinar was attended by around 30 women employees of CMPDIL HQ and Regional Institutes.

Sri Vinay Ranjan, Director (Personnel), CCL & ECL, who was recently conferred with “CHRO of the year award” during the HRD India Awards ceremony for bringing a sweeping behavior change in HR service delivery, was the Guest speaker in the webinar.

Sri Vinay Ranjan, emphasized on how performance of countries, led by women leaders, was more successful in their fight against COVID-19 than those led by men.

He also explained that how leadership environment with gender parity lead to healthier, stronger and more consensual decision.



28.0 DIRECTOR'S RESPONSIBILITY STATEMENT :

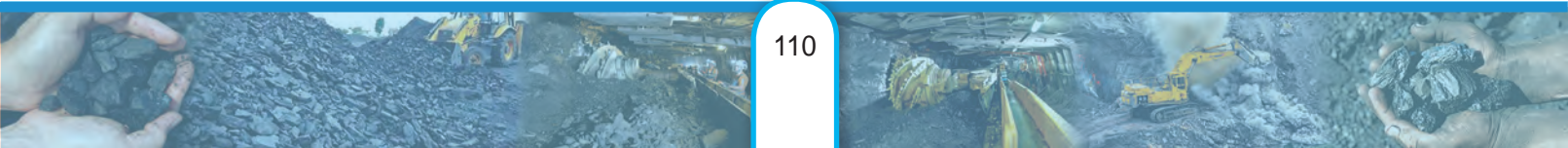
28.1 In the preparation of the annual accounts, the applicable accounting standards had been followed along with proper explanation relating to material departures.

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 2020-21.

ACKNOWLEDGMENT :

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 2020-21 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

Ranchi

Date :

(Manoj Kumar)

Chairman-cum-Managing Director
(Addl. Charge)

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 2020-21 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 Cmpdilfor The Year 2020-21

A	Diesel Audit and Benchmarking	Diesel Consumption	Proposed Saving Potential
1.	Annual benchmarking of 13 OCPs identified by BCCL	26645 KL	1164 K Litre/yr
2.	Annual benchmarking of 33 OCPs + CCL as a whole, identified by CCL	49575 KL	2213 K Litre/yr
3.	Annual benchmarking of 08 OCPs identified by ECL	28292 KL	1223 K Litre/yr
4.	Annual benchmarking of 12 OCPs identified by MCL	37503 KL	1679 K Litre/yr
5.	Annual benchmarking of 10 OCPs identified by NCL	119153 KL	5316 K Litre/yr
6.	Annual benchmarking of 03 OCPs identified by SECL	58033 KL	2565 K Litre/yr
7.	Annual benchmarking of 14 OCPs identified by WCL	59050 KL	2611 K Litre/yr
B	Electrical Energy Audit and Benchmarking studies carried during 2020-21	Proposed Investment (in ₹ lakh)	Proposed Saving Potential
1.	Block-BOC by CMPDIL HQ	-	-
2.	NCL HQ, office & colony by CMPDIL HQ	-	-
3.	Electrical Energy Audit and Benchmarking Reports for 1. Churi UG, Argada Area, 2. Sayal D UG, Barkasayal Area, 3. Topa OCP, Kuju Area, 4. Kargali OCP, B&K Area and 5. Piparwar OCP, Piparwar Area by CMPDIL HQ	-	-

(A2) MINE ILLUMINATION REPORT TAKEN UP BY CMPDIL FOR THE YEAR 2020-21

Sl.No.	JOB Description	Proposed Investment (in ₹)
1.	Illumination Survey of Jayant OCP by CMPDIL HQ	-
2.	Illumination Survey of Nigahi OCP by CMPDIL HQ	749

(A3) TECHNOLOGY ABSORPTION

Roof top Solar Power Plant / Solar Power Plant initiatives

✓ **Regional Institute I**

- Preparation of NIT for Supply, Installation, Commissioning & Testing of 60 Nos. Solar LED Street Lighting System (All in one System shall not be Acceptable) at Kendgore Gram Panchayat, Khairasole Block , Birbhum, under CSR activity.

✓ **Regional Institute IV**

- 100 kWp Solar Rooftop Power Plant has been commissioned at CMPDIL Residence Quarters in March, 2021.
- Under CSR activity 5 kWp Solar Rooftop Power Plant has been commissioned at Zilla Parishad Prathmik Shala, Bandra Village, Kendra – Yensa Pachayat Samiti, Warora. Distt: Chandrapaur in September, 2020.

B. FOREIGN EXCHANGE EARNING AND OUTGO

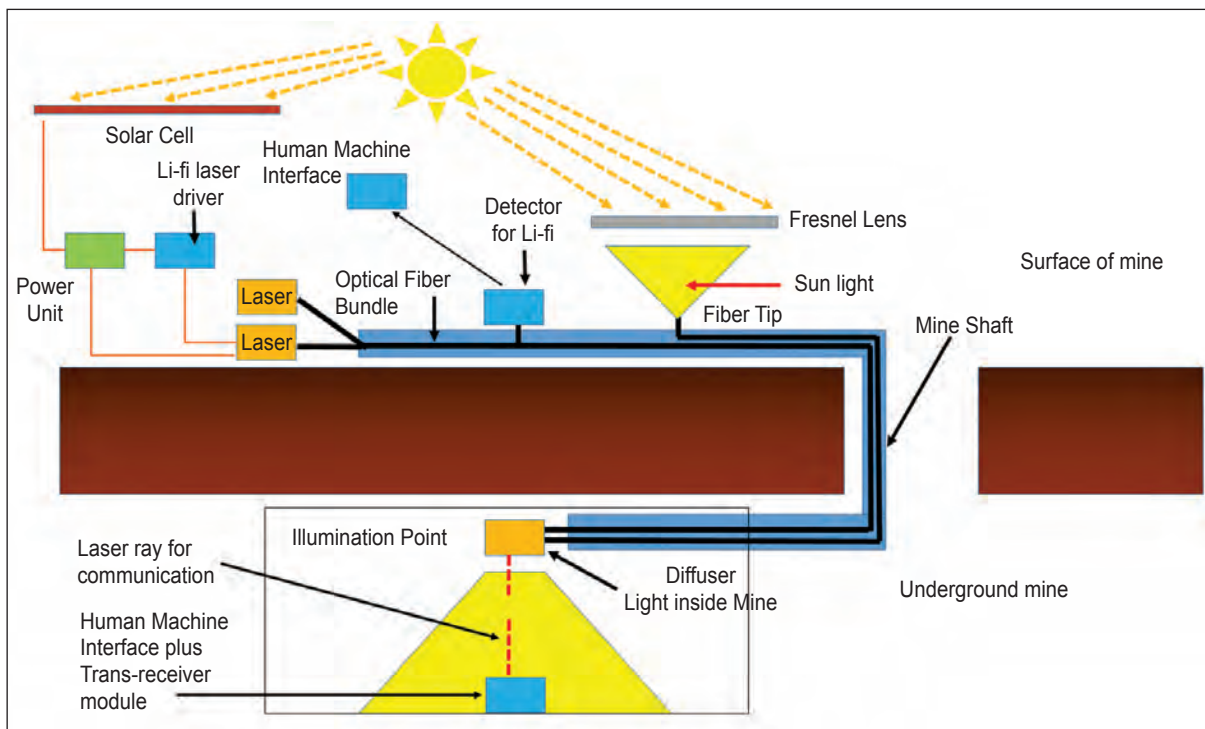
Sl.No.	Particulars	2020-21
1.	Activities relating to export, initiatives to increase export; development of new export markets for products and services and export plans	Company is not engaged in exports
2.	Total Foreign Exchange used and earned	
	(a) Total Foreign Exchange earned (₹ in Crore)	₹ 0.00 Crores
	(b) Total foreign exchange used (₹ in Crore)	₹ 16.07 Crores
	(Travelling Expenses ₹ 0.04 Crore + Others ₹ 0.00 Crores + Other Capital Goods ₹ 16.30 Crores)	

C. RESEARCH AND DEVELOPMENT AND TECHNOLOGY ABSORPTION

An R&D project titled **“Optical fiber based solar illumination of pit bottom and underground mine roadways and working face.”** was taken up by IIT, KGP & ECL, Sanctoria. Total approved cost of the project was ₹ 155.53 lakh [IIT-Kharagpur - ₹ 155.53 lakh]

Under this project, an optical fiber based hybrid illumination system for mines that will function during sunny / cloudy days and nights was designed and installed in Jhanjra UG project, ECL. The system has been demonstrated to the personnel at Jhanjra coal mines in January 2021. The developed solar power driven, optical fiber based illumination system provides > 35 lux of illumination at pit-bottom. The possibility of using the illumination system for communication is also developed.

The developed optical fiber based hybrid illumination system **utilizes the solar power**. This unique system can be utilized for illumination of pit-bottom and underground roadways of several underground mines in the future. **As this system completely relies on solar power, it would lead to economic benefits and would also motivate the use of green energy sources.**



The schematic of the optical fiber based illumination of underground mines is presented in above **Figure**. The illumination of the underground mine is being carried out by two mechanisms: (i) coupling of natural sunlight into optical fibers by Fresnel lens, and (ii) coupling of solar power driven high-power continuous-wave artificial laser light into optical fibers. The coupling of lights is carried out on the surface of the underground mine and the optical fibers are taken into the underground mine through the mine shaft in rugged conduit made of permanently lubricated (PLB) high density poly ethylene (HDPE) duct pipes. The optical fibers terminate into optically active and passive polydimethylsiloxane (PDMS) diffusers which mixes the artificial and natural light together.

On a sunny day, natural sunlight is directly focused into the optical fibers with the help of Fresnel lens and illumination can be achieved in the underground mine. The sunlight is also used to generate electrical power with the help of photovoltaic solar cells mounted on the surface of the mine. The electrical power accumulated in the batteries are used to drive two high-power lasers during cloudy days and nights.

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. Some completed research projects have produced tangible impact on coal industry and also strengthened the mine planning, design for both operating mines and mining projects expected to come in future.

E. FOLLOWING RESEARCH PROJECTS HAVE BEEN COMPLETED DURING 2020-21:

1. Constructing structure on backfilled open Cast Coal Mines: An attempt to suggest viable methodologies

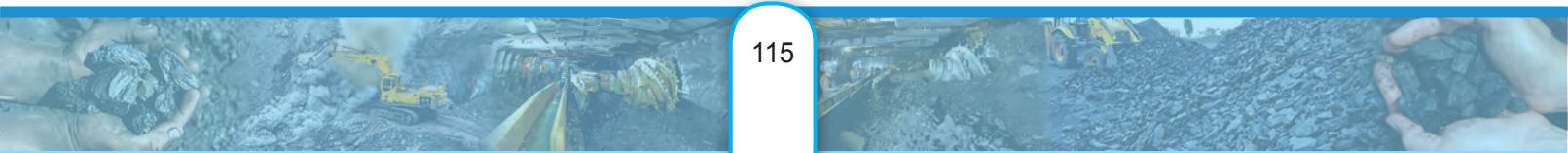
This project was executed by IIT-ISM, Dhanbad and Civil Engineering Division, CMPDIL, Ranchi

Under this project, a 2 story building constructed on back filled area of Jagannath OCP, MCL for habitat or office use. Also, a guidelines has been framed so that structures with adequate foundation can be constructed on other backfilled opencast mines. Backfill, chosen for construction, should be more than 5 years old.

2. Development of tele-robotics and remote operation technology for underground coal mines.

This project was executed by CMERI, Durgapur, CIMFR, Dhanbad and CMPDIL, Ranchi

Under this project, Tele-robot has been developed which is capable of monitoring environmental parameters viz. percentage of CO₂, CH₄, O₂, and also humidity & temperature. The real time graphical-user-interphase (GUI) based navigational camera is capable of displaying the status of robot and 3D representation of operational environment in the underground mines from sensor data. Long range communication with the robot through multiple wireless routers was also established.



3. Investigation Pertaining to geotechnical & hydrogeological aspects to stabilize the non-cohesive granular soil/sand in the opencast mines adjacent to the major perennial river.

This project was executed by Civil Engineering Department, IIT, Bombay; RI-IV, CMPDIL, Nagpur & WCL, Nagpur

This project is a successful demonstration of the utility of GFRE wall for stabilizing the mine sidewalls/slopes in cohesion less soils, through which extremely heavy inflow of water takes place. Such stabilization of the sidewalls also successfully demonstrates that the drainage network designed is very useful for averting the inflowing water without causing any distress to the GFRE wall. Application of hydro-seeding in creating an environmentally synergetic stable sidewall has also been demonstrated very well. Such an approach would create a safe mining environment for enhanced coal recovery. The guidelines for investigation, design & construction procedures along with quality control and application procedures of Hydro-seeding are beneficial to the coal industry.

4. Electronification of Ground Water Control and Conveyor System in Mines

This project was executed by NLC India Limited (NLCIL), Neyveli & National Institute of Technology Tiruchirappalli (NITT), Tamilnadu.

Under this project, real time automation of Ground Water Control (GWC) system have been developed. Parameters like flow, level, energy of the bore well located in the mines are monitored continuously. An indigenously low cost high performance sensors was developed to monitor the temperature, vibration, voltage, current etc. and to provide programmable logic control (PLC) based solution for conveyor system at NCIL through RF/GPRS based wireless technology. In this project, Design of suitable Fault Detection & Identification (FDI) using conventional and intelligent techniques in order to detect the different faults in advance before affecting the equipment plant. The real time monitoring system shows the online display to the operation and maintenance crew for the routine planning and for safe operation of men and materials.

5. Multiple layer trial blasting for better recovery with less diluted coal.

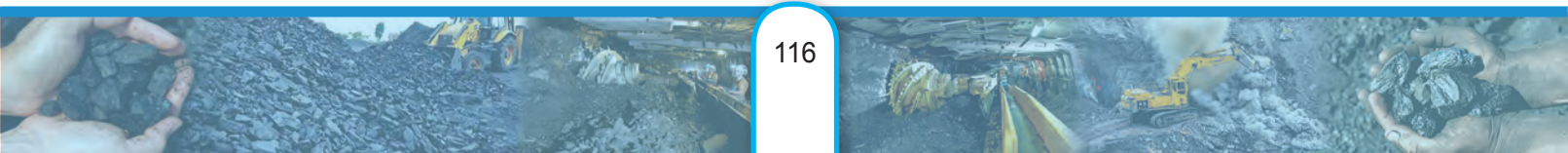
This project was executed by IIT-ISM, Dhanbad & CMPDIL, Ranchi

Under project multiple overburden and coal strata was drilled and explosives was loaded for blasting in a single cycle to develop safe and efficient multi-seam and through-seam blast design to produce clean coal with better recovery using advanced blasting technology.

6. Optical fiber based solar illumination of pit bottom and underground mine roadways and working face.

This project was executed by IIT, KGP & ECL, Sanctoria

Under project titled "Optical fiber based solar illumination of pit bottom and underground mine roadways and working face" an optical fiber based hybrid illumination system for mines that will function during sunny / cloudy days and nights was designed and installed in Jhanjra UG project, ECL.



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, 2021 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 2021 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 has not been any significant changes in internal control over financial reporting during the Year ended 31st March 2021.
 - ii. There has not been any significant changes in accounting policies during the year ended 31st March 2021.
 - 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. 142, 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, 2021**, 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 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.

URMILA APARTMENT, FLAT NO. 201, 2ND FLOOR, UDDHAV BABU LANE
NEAR ST. ANNE'S GIRLS HIGH SCHOOL, THARPAKHNA, RANCHI, JHARKHAND
Contact No: 0651 -2212943, 09334606570. Email id: cssatish26@gmail.com.
skaranchioffice@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 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, 2021, the Board of Directors of CMPDIL comprises of 9 (Nine) Directors out of which four 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 Shekhar Saran. Three Independent Directors are on the Board of the Company including one Woman Director. Further the composition of Board of Directors as on 31st March, 2021 is as follows:-

I. WHOLE-TIME DIRECTORS

A. CHAIRMAN-CUM-MANAGING DIRECTOR

1. Shri Shekhar Saran

B. FUNCTIONAL DIRECTORS

2. Shri Rabindra Nath Jha
3. Shri Anil Kumar Rana
4. Shri Satendra Kumar Gomasta

II. PART-TIME OFFICIAL DIRECTORS

1. Shri Binay Dayal
2. Shri Mukesh Choudhary

URMILA APARTMENT, FLAT NO. 201, 2ND FLOOR, UDDHAV BABU LANE
NEAR ST. ANNE'S GIRLS HIGH SCHOOL, THARPAKHNA, RANCHI, JHARKHAND
Contact No: 0651 -2212943, 09334606570. Email id: cssatish26@gmail.com.
skaranchioffice@gmail.com



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 2020-21.

S.N.	Number of Meeting	Dates	Day	Place of Meeting
1.	233 rd	13-05-2020	Wednesday	CMPDIL, Ranchi
2.	234 th	09-06-2020	Tuesday	CMPDIL, Ranchi
3.	235 th	19-06-2020	Friday	CMPDIL, Ranchi
4.	236 th	16-07-2020	Thursday	CMPDIL, Ranchi
5.	237 th	06-08-2020	Thursday	CMPDIL, Ranchi
6.	238 th	14-08-2020	Friday	CMPDIL, Ranchi
7.	239 th	15-09-2020	Tuesday	CMPDIL, Ranchi
8.	240 th	16-10-2020	Friday	CMPDIL, Ranchi
9.	241 st	05-11-2020	Thursday	CMPDIL, Ranchi
10.	242 nd	23-12-2020	Wednesday	CMPDIL, Ranchi
11.	243 rd	04-02-2021	Thursday	CMPDIL, Ranchi
12.	244 th	04-03-2021	Thursday	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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 skaranchioffice@gmail.com



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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 are 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;

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- 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

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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

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vi. Certification / declaration of financial statement by the Chief Executive / Chief Finance Officer.

F. Composition:

As on 31st March, 2021 the Audit Committee consists of following members and is headed by a Non-official part-time director (Independent Director):

SI. No.	Name of Director	Status	
1.	Smt. Alka Panda	Chairperson	Independent Director
2.	Shri Binay Dayal	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 A.K. Rana	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 provides necessary support for holding and conducting the Audit Committee Meeting.

G. Details of Audit Committee Meetings held in FY 2020-21:

9 (Nine) meetings were held during the financial year 2020-21 on 13.05.2020, 09.06.2020, 16.07.2020, 06.08.2020, 14.08.2020, 15.09.2020, 05.11.2020, 04.02.2021 and 04.03.2021 respectively.

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.

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).

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<i>SI. No.</i>	<i>Name of Director</i>	<i>Status</i>	
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 Meeting held in FY 2020-21:

No meeting was held during the financial year 2020-21.

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.

A. Composition:

As on 31st March, 2021 the CSR Committee consists of following members and is headed by a non-official part-time director (Independent Director):

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SI. No.	Name of Directors	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

General Manager (HRD/CSR) is the Nodal Officer of the Committee providing all services to the CSR Committee.

B. Details of CSR Committee Meeting held in FY 2020-21:

4 (Four) meetings were held during the financial year 2020-21 on 09.06.2020, 06.08.2020, 09.10.2020 and 04.02.2021.

I further state that such compliance is neither an assurance as to the future viability of the Company, nor the efficiency or effectiveness with which the management has conducted the affairs of the Company.

For Satish Kumar & Associates
Company Secretaries

(SATISH KUMAR)
(Managing Partner)
M.N. No.8423
C.P. No.: 9788

Place: **Ranchi**
Date: **21st May, 2021**
UDIN:- **F008423C000352778**

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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, 2021, 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, 2021, 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

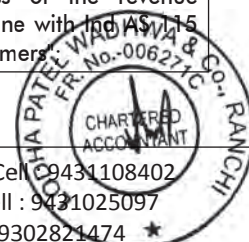
This section of our auditor's report is intended to describe the matters selected from those communicated with management that, in our professional judgment were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit 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.	<p>Revenue recognition as per Ind AS 115 Refer to Note-2.3- Significant Accounting Policies financial statements.</p> <p>The Company's revenue is principally derived from providing consultancy support in coal and mineral exploration etc.</p> <p>Revenue from contracts with customers is recognized when control of the goods</p>	<p>Our audit procedures included the following:</p> <ul style="list-style-type: none"> • We evaluated the design and tested operating effectiveness of the relevant controls with respect to revenue recognition including those relating to cut off at year end; • We assessed the appropriateness of the revenue recognition accounting policies in line with Ind AS 115 "Revenue from Contracts with Customers".

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	<p>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.</p>	<ul style="list-style-type: none"> • We performed substantive testing of revenue transactions, recorded during the year by testing the underlying documents which included annual work plan, measurement and customer acknowledgments, as applicable; • We tested a few journal entries posted to revenue to identify unusual items;
	<p>We identified revenue recognition as a key audit matter since revenue is significant to the financial statements and is required to be recognised as per the requirements of applicable accounting framework.</p>	<ul style="list-style-type: none"> • We tested, on a sample basis, specific revenue transactions recorded before and after the financial year end date including examination of credit notes issued after the year end to determine whether the revenue has been recognized in the appropriate financial period. <p>Based on the above stated procedures, no significant exceptions were noted in revenue recognition.</p>

Under other Matters

In view of the State Government imposed lockdown due to Covid-19, strict timeline to conclude audit & travel restrictions to visit the RI office to examine the original documents and records, the audit was conducted through remote location and hence we could not gather audit evidence in person or by personal interactions with the staff of the company. As a result, necessary documents, records, information and reports were received through digital medium in scan/ soft form over emails and audit procedures were carried out on such information received and were accepted as audit evidence and the opinion expressed, based on the information, facts and scanned documents made available by the management while reporting for the current period.

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.

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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.

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.



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- 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 2016 ("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.
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.



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LODHA PATEL WADHWA & CO.
Chartered Accountants

- e) on the basis of the written representations received from the directors of the Company as on March 31, 2021 taken on record by the Board of Directors, none of the directors is disqualified as on March 31, 2021 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:
- The Company has disclosed the impact of pending litigations on its financial position in its financial statements.
 - 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.
 - 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.

For Lodha Patel Wadhwa & Co.
Chartered Accountants
FRN 006271C

CA Sanjay Kumar Wadhwa
Partner
M. No. 074749

Place : Ranchi
Date : 28th May 2021

UDIN - 21074749AAAABB4228



Annexure - 1 to the Independent Auditor's Report

(Referred to in paragraph 1 under Report on Other Legal and Regulatory Requirements1 section of our report to the Members of Central Mine Planning & Design Institute Limited even date)

Annexure - A

Directions under section 143(5) of the Companies Act 2013 applicable for the financial year 2020-21 account's audit

- i. Whether the company has system in place to process all the accounting transactions through IT system? If yes, the implication of processing of accounting transactions outside IT System on the integrity of accounts along with financial implications, if any may be stated.

The company has system in place to process all the accounting transactions through IT system but it lacks a robust integrated system with proper internal control system in place with well defined financial controls and internal checks which is required for integration of all departments and process at Regional Institute Offices as well as at Head Quarters

- ii. Whether there is any restructuring of existing loan or cases of waiver /write off of debts/loans/interest etc made by the lender to the Company due to the Company's inability to repay the loan? If yes, financial impact is to be stated. Whether such cases are properly accounted for:

As per information and explanation given to us, there is no restructuring of existing loan or cases of waiver /write off of debts/loans/interest etc made by the lender to the Company due to the Company's inability to repay the loan. As there is no such case, accounting is not required.

- iii. Whether funds received/receivable for specific schemes from Central/State Agencies were properly accounted for /utilized as per its terms & conditions? List the cases of deviation.

As per information and explanation given to us, funds received/receivable for specific schemes from Central/State Agencies were properly accounted for /utilized as per its terms & conditions.

For Lodha Patel Wadhwa & Co.
Chartered Accountants
FRN 006271C



CA Sanjay Kumar Wadhwa
Partner
M. No. 074749

Place : Ranchi
Date : 28th May 2021

UDIN - 21074749AAAABB4228





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. In respect of the Company's fixed assets:
 - (a) The Company has maintained proper records showing full particulars, including quantitative details and situation of fixed assets.
 - (b) The Company has a program of verification to cover all the items of fixed assets in a phased manner which, in our opinion, is reasonable having regard to the size of the Company and the nature of its assets. Pursuant to the program, certain fixed assets were physically verified by the management during the year. According to the information and explanations given to us, no material discrepancies were noticed on such verification.
 - (c) According to the information and explanations given to us, the records examined by us and based on the examination of the conveyance deeds provided to us, we report that, the title deeds, comprising all the immovable properties of land and buildings which are freehold, are held in the name of the Company as at the balance sheet date. In respect of immovable properties of land and building that have been taken on lease and disclosed as fixed assets in the financial statements, the lease agreements are in the name of the Company.
- ii. In respect of Inventories:
 - (a) According to information and explanation given to us, the company has maintained proper records of its inventories and the management has deputed an outside agency to physically verify inventory at year end, As reported to us, no material discrepancy was noticed on physical verification of stocks as compared to book records.
- iii. According to the information and explanations given to us, the Company has not granted any loans, secured or unsecured, to bodies corporate, firms, Limited Liability Partnership or other parties covered in the register maintained under section 189 of the Companies Act, 2013 and therefore, the provisions of this clause 3(iii) of the Order are not applicable to the Company.
- iv. In our opinion and according to the information and explanations given to us, the Company has complied with the provisions of Sections 185 and 186 of the Act in respect of grant of loans, making investments and providing guarantees and securities, as applicable.
- v. According to the information and explanations given to us, the Company has not accepted deposits during the year and does not have any unclaimed deposits as at March 31, 2021 and therefore, the provisions of this clause 3(v) of the Order are not applicable to the Company.
- vi. According to the information and explanations given to us, the maintenance of cost records has been specified by the Central Government under section 148(1) of the Companies Act, 2013 for the business activities carried out by the Company and such records have been maintained by the Company.
- vii. According to the information and explanations given to us, in respect of statutory dues:
 - (a) The Company has generally been regular in depositing undisputed statutory dues, including Provident Fund, Income Tax, Sales Tax, Service Tax, Goods and Service Tax, Value Added Tax, Customs Duty, Excise Duty Cess and other material statutory dues applicable to it with the appropriate authorities.



- (b) There were no undisputed amounts payable in respect of Provident Fund, Income Tax Sales. Tax, Service Tax, Value Added Tax, Goods and Service Tax, Customs Duty, Excise Duty, Cess and other material statutory dues in arrears as at March 31, 2021 for a period of more than six months from the date they became payable.
- (c) Details of dues of Income Tax, Sales Tax, Service Tax, Excise Duty and Value Added Tax, Goods and Service Tax, Customs duty, Excise duty, cess and other material dues which have not been deposited as at March 31, 2021 on account of dispute are given in Annexure - 2 A
- viii. According to the information and explanations given to us, the Company has not taken any loans or borrowings from financial institutions, banks and government or has not issued any debentures. Hence reporting under clause 3 (viii) of the Order is not applicable to the Company.
- ix. According to the information and explanations given to us, the Company has not raised moneys by way of initial public offer or further public offer (including debt instruments) or term loans and hence reporting under clause 3 (ix) of the Order is not applicable to the Company.
- x. To the best of our knowledge and according to the information and explanations given to us, no fraud by the Company or no material fraud on the Company by its officers or employees has been noticed or reported during the year.
- xi. In our opinion and according to the information and explanations given to us, the Company has paid/ provided managerial remuneration in accordance with the requisite approvals mandated by the provisions of section 197 read with Schedule V to the Act.
- xii. In our opinion and according to information and explanation given to us, the Company is not a Nidhi Company and hence reporting under clause 3 (xii) of the Order is not applicable to the Company.
- xiii. In our opinion and according to the information and explanations given to us, the Company is in compliance with Section 177 and 188 of the Companies Act, 2013 where applicable, for all transactions with the related parties and the details of related party transactions have been disclosed in the financial statements as required by the applicable accounting standards.
- xiv. According to the information and explanations given to us, the Company has not made any preferential allotment or private placement of shares or fully or partly paid convertible debentures and hence reporting under clause 3 (xiv) of the Order is not applicable to the Company.
- xv. In our opinion and according to the information and explanations given to us, during the year the Company has not entered into any non-cash transactions with its Directors or persons connected to its directors and hence provisions of section 192 of the Companies Act, 2013 are not applicable to the Company.
- xvi. The Company is not required to be registered under section 45-IA of the Reserve Bank of India Act, 1934.

For Lodha Patel Wadhawa & Co.

Place : Ranchi
Date : 28th May 2021



Chartered Accountants
FRN 006271C


CA Sanjay Kumar Wadhwa
Partner
M. No. 074749



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, 2021 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 authorisations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorised acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Inherent Limitations of Internal Financial Controls Over Financial Reporting

Because of the inherent limitations of internal financial controls over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may occur and not be detected. Also, projections of any evaluation of the internal financial controls over financial reporting to future periods are 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, 2021, 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.

Place : Ranchi
Date : 28th May 2021

For Lodha Patel Wadhwa & Co.
Chartered Accountants
FRN 006271C



CA Sanjay Kumar Wadhwa
Partner
M. No. 074749

UDIN - 21074749AAAABB4228





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 Statute	Nature of 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	Disallowance of CSR, Medical Expenses and profit from sale of asset.	ITAT	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, Sports & 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 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 arrear of Service Tax Interest and Penalty	Jharkhand High Court	A.Y 1998-1999	3.82



Central Mine Planning & Design Institute Limited Ranchi**F.Y 2020-21**Statutory Audit Observation on Annual Accounts and Management Reply for Audit Committee.

S.No.	AUDITOR OBSERVATION	MANAGEMENT REPLY
1.	<p>The entries in books of accounts are not passed timely and thus ledgers are not update.</p> <p>We observed this earlier also and same was brought to the notice of Audit Committee and management assured that there will not be such lapse in future. In this annual closing also, on test check basis, we examined this and we were surprised to observe that Invoices issued by company during April 2021 from various RI locations (except RI-V) as well as Head Quarters were not booked in books of accounts and the sales amount were not appearing in ledgers at all. There can be delay of a day or two but till 26th day of next month, sales entries were not updated in books of accounts. On our specific query on 26.05.2021, it has been intimated that voucher has been prepared and approved on 26.05.2021 only as last date of filing of GSTR return has been deferred till 26.05.2021. Thus, apparently the person in charge waits till last date of return filing for preparing and entering the voucher of sales and if the due date is deferred for 2 months, the entry in books of accounts will be deferred accordingly. The management assurance in this regard is required as earlier commitment of Account Section to follow guideline of company has failed.</p>	<p>This is related to April 2021 (FY 2021-22). During the month of April & May' 21 all RIs/HQ have operated with 50% strength. Further many executives/ Non executives of concerned department got infected with COVID-19 which caused delay in receipt of data. This caused certain delay. In spite of that all entries related to April' 21 were made by the end of May'21.</p> <p>Further, it is assured that effort will be made to pass accounting entry timely.</p>



2.	<p>Earlier, the company was not adhering to the provisions of Income Tax Act 1961 with regards to deduction of tax as and where applicable, on liability booked on provision basis.</p> <p>As confirmed by management, this time a decision was taken and instruction was passed on to all RIs that at year end, income tax has to be deducted at source on entire liability i.e., inclusive of provision made in account as required under Income Tax Act 1961. Even after decision and instruction, RI 3 and RI 4 failed to do so. The management has decided to disclose this in final accounts.</p>	<p>It is assured that in future the Income tax TDS shall be made on all liabilities booked as provision.</p>
3.	<p>Independent Balance Confirmation were not received by us directly from most of the Sundry Debtors of the company.</p>	<p>Company has sent email to all its customers for balance confirmation with specific request to send a copy of email regarding balance confirmation directly to our statutory auditor.</p>
4.	<p>More efforts are required for booking of expenses/ provisioning in correct/identical account codes. This issue was raised earlier also but it seems that RIs do not understand the importance of identical/ correct account codes recommended by Coal India. We also observed that different formats are being used by RIs while preparing the schedules to the account and uniformity was missing. RIs were instructed to follow the guideline of the Company for preparation of account. It has been communicated to us due to COVID, the guideline could not be followed in totality and assurance has been given to improve it further.</p>	<p>Though the RIs have taken utmost care to see that Uniform codes are followed, yet there are some instances where it has not been followed uniformly. There is improvement over previous year. Further it is assured that efforts shall be made for its compliance.</p>
5.	<p>There is substantial difference in figures of liability of expenses booked in accounts which is supported by invoices (account code 820128) and the expenses which is based on estimation/ provision (account code 820149) which shows that there is delay in obtaining of invoices and arriving at confirmed liability. This issue has been reported to Audit Committee earlier also but we expect substantial improvement in provisioning which can be achieved by putting more efforts and follow up</p>	<p>Concerned department will be requested to take up the issue with the suppliers/contractors for early submission of Invoices.</p>
6.	<p>In this pandemic we could not visit any RI but we have to conclude the audit with a very limited access to documents. Further, the duration allowed for the assignment was another challenge. The audit has been carried on in accordance with advisory in this regard.</p>	<p>No comments</p>

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]

To,
The Members,
Central Mine Planning & Design Institute Limited
Gondwana Place, Kanke Road Ranchi-834031

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. In spite of lockdown due to pandemic COVID-19 wherever possible we have physically inspected the requisite books & papers.

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, 2020 to March, 2021, complied with the statutory provisions listed hereunder.

Satish Kumar & Associates

Company Secretaries
Flat No. 201, 2nd Floor, Urmila Apartment,
Uddhav Babu Lane, Tharpakhna,
Ranchi- 834001
Ph:-09334606570/ 09135009905/ 0651-2212943
E-Mail :-

cssatish26@gmail.com/skaranchioffice@gmail.com

PAN:-ADGFS8830H

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, 2021 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.
3. The Depositories Act, 1996 and the Regulations and Bye-laws framed there under.
4. The SEBI (Listing Obligations & Disclosure Requirements) Regulations, 2015.

URMILA APARTMENT, FLAT NO. 201, 2ND FLOOR, UDDHAV BABU LANE
NEAR ST. ANNE'S GIRLS HIGH SCHOOL, THARPAKHNA, RANCHI, JHARKHAND
Contact No: 0651 – 2212943, 09334606570. Email id: cssatish26@gmail.com, skaranchioffice@gmail.com



SATISH KUMAR & ASSOCIATES (COMPANY SECRETARIES)

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).
- I. 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 45th Annual General Meeting of the Members on Monday, 27th July, 2020.
 8. Maintenance of Minutes of the proceedings 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.



SATISH KUMAR & ASSOCIATES

(COMPANY SECRETARIES)

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.

II. 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.
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.

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.



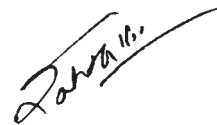
SATISH KUMAR & ASSOCIATES
(COMPANY SECRETARIES)

2. We have followed the audit practices and the processes as were appropriate to obtain 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.

For **Satish Kumar & Associates**



Place: **Ranchi**
Date: **26th May, 2021**
UDIN: - F008423C000374778

Satish Kumar
Company Secretary
FCS No.: 8423
C.P. No.: 9788


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		



SATISH KUMAR & ASSOCIATES
(COMPANY SECRETARIES)

	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
19.	Mineral Concession Rules, 1960.	Not Applicable	N.A
22.	Mines and Minerals (Development and Regulation) Act, 1957.	Not Applicable	N.A
23.	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

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 31.03.2021.

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.

(₹ in Crore)

Name of the Company	Amount of transactions during the year	Nature of Transactions
Eastern Coalfields Limited	96.35	Sales
Bharat Coking Coal Limited	85.15	Sales
Central Coalfields Limited	134.49	Sales
Western Coalfields Limited	133.98	Sales
Northern Coalfields Limited	351.87	Sales
South Eastern Coalfields Limited	91.48	Sales
Mahanadi Coalfields Limited	84.67	Sales
Coal India Limited (CIL) (100% Holding Company)	8.01	Sales
Grand Total	986.00	

Addendum - VII

ANNEXURE FORMING PART OF DIRECTORS' REPORT FOR THE YEAR ENDED 31.03.2021-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	Designation/nature of work	Remuneration During the year ()	Nature of employment Permanent / temporary	Qualification	Experience (yrs.)	Date of commencement	Age on 31 st 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)	Employed throughout the financial year under review and were in receipt of remuneration for that financial year in the aggregate of not less than ₹ 1, 02, 00,000/-.											
-----Nil-----												
(b)	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 ₹ 8,50,000/- per month.											
-----Nil-----												
(c)	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.											
-----Nil-----												

Addendum - VIII



भारतसरकार
GOVERNMENT OF INDIA
भारतीयलेखापरीक्षाऔरलेखाविभाग
INDIAN AUDIT AND ACCOUNTS DEPARTMENT
कार्यालय महानिदेशक लेखापरीक्षा (कोयला), कोलकाता
OFFICE OF THE DIRECTOR GENERAL OF AUDIT (COAL)
पुरानानिजाममहल, 234/4 आचार्यजगदीशचन्द्रबोसरोड, कोलकाता। -
700 020
OLD NIZAM PALACE, 234/4, A. J. C. BOSE ROAD,
KOLKATA-700020



No. CAR/CCL/A/c Audit/CMPDIL/2021-22/ 310

Date:- 19/07/21

To
The Chairman-cum-Managing Director,
Central Mine Planning & Design Institute Limited
Gondwana Place, Kanke Road
Ranchi - 834031

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 2021.

Sir,

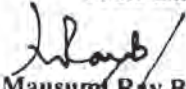
I forward herewith the Comments of the Comptroller and Auditor General of India under Section 143(6)(b) of the Companies Act, 2013 on the financial statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2021.

The receipt of this letter may please be acknowledged.

Encl: As stated.

Place: Kolkata
Dated: 19 July 2021

Yours faithfully,


(Mausumi Ray Bhattacharyya)
Director General of Audit (Coal)
Kolkata

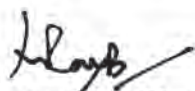
COMMENTS OF THE COMPTROLLER AND AUDITOR GENERAL OF INDIA UNDER SECTION 143(6)(b) OF THE COMPANIES ACT, 2013 ON THE FINANCIAL STATEMENTS OF CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED FOR THE YEAR ENDED 31 MARCH 2021.

The preparation of financial statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2021 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 Audit Report dated 28 May 2021.

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 2021 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.

On the basis of my supplementary audit nothing significant has come to my knowledge which would give rise to any comment upon or supplement to statutory auditors' report under section 143(6)(b) of the Act.

For and on behalf of the
Comptroller and Auditor General of India



(Mausumi Ray Bhattacharyya)
Director General of Audit (Coal)
Kolkata

Place: Kolkata
Dated: 19 July 2021



ANNUAL REPORT ON CORPORATE SOCIAL RESPONSIBILITY (CSR)

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	4	4
2.	Smt. Alka Panda	Member	4	4
3.	Dr. Krishna Chandra Pandey	Member	4	4
4.	Shri R.N. Jha	Member	4	3
5.	Shri S.K. Gomasta	Member	4	2
6.	Shri K.K. Mishra	Member	4 (w.e.f. 21.05.2019 to 14.09.2020)	3

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. Provide the details of Impact assessment of CSR projects carried out in pursuance of sub-rule 8 of the Companies (Corporate Social responsibility policy) Rules, 2014, if applicable (attach the report).

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	NIL	NA	NA
	TOTAL		

6. Average net profit of the company as per section 135(5):

Head	Amount (₹ in Crores)
PBT for FY 2019-20	312.62
PBT for FY 2018-19	263.82
PBT for FY 2017-18	120.82
Total	697.26
Average of the preceding three years	232.42

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 ₹ 4.6484 crores.

(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 2020-21 was ₹ 4.6484 crores.

8. (a) CSR amount spent or unspent for the financial year:

Total Amount Spent for the Financial Year. (in Rs)	Amount Unspent (in ₹)				
	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.
4,65,68,000/-	Nil	NA	NA	NA	NA



(d) Total CSR obligation for the financial year (7a+7b-7c).

1	2	3	4	5		6	7	8	9	10	11	
				Location of the project.							Mode of Implementation Direct (Yes/No.)	Mode of Implementation Through Implementing Agency Name
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	(Yes/No.)		
1	Spillover: Proposal on construction of two number of cottage for the needy elderly at the campus of oldage home at village, Kulgu, Kalendey, Block-Nagri, Dist.:Ranchi	Point iii, Schedule VII: Home for old age	Yes	Ranchi	Jharkhand	1 Year	16.34	13.38	Nil	Yes		
2	Spillover: Promoting education among the poor and needy sections of society through providing scholarship, sponsorship and other aids to Birsa Uccha Vidhyalaya, Ranchi.	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 Year	1.40	1.18	Nil	Yes		
3	Containment of the Pandemic COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	2.00	2.00	Nil	Yes		
4	Containment of COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	0.48	0.48	Nil	Yes		

1	2	3	4	5		6	7	8	9	10		11
				Location of the project.						Mode of Implementation Direct	Mode of Implementation Through Implementing Agency	
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	(Yes/No.)	Name	
5	Support for education of 125 destitute/orphans/socially & economically backward students from Sembo and adjoining areas.	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 Year	10.75	10.75	Nil	Yes		
6	Support for education and skill development of 25 no. of visually impaired girl students at Brajkishore Netraheen Balika Vidhyalaya	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 Year	4.80	4.80	Nil	Yes		
7	Promoting education among the poor and needy sections of society through providing scholarship, sponsorship and other aids to Gondwana Primary School, Ranchi.	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 Year	1.69	1.69	Nil	Yes		



1	2	3	4	5		6	7	8	9	10	11	
				Item from the list of activities in Schedule VII in the act	Local area (Yes/No).						Location of the project. District	State
8	Support for education and skill development of 25 children with intellectual disabilities from Deepshikha Institute for Child Development and Mental Health	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 Year	11.44	9.33	Nil	Yes		
9	Promoting education among the poor and needy sections of society through providing scholarship, sponsorship and other aids to Birsajoccha Vidhyalaya, Ranchi.	Point II, Schedule VII: Promoting Education	Yes	Ranchi	Jharkhand	1 Year	11.02	11.02	Nil	Yes		
10	Financial Support Under CSR for Hospitalization Cost of 20 Patients at Gandhi Memorial Leprosy Hospital	Point I, Schedule VII: Promoting Healthcare	Yes	Purulia	West Bengal	1 Year	8.15	8.15	Nil	Yes		
11	Swachhta Action Plan CMPDIL HQ	Point I, Schedule VII: Promoting Sanitation	Yes	Ranchi	Jharkhand	1 Year	1.50	1.50	Nil	Yes		

1	2	3	4	5		6	7	8	9	10	11	
				Location of the project.							Mode of Implementation Direct	Mode of Implementation Through Implementing Agency
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	(Yes/No.)	Name	
12	Medical Camp	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	0.50	0.47	Nil	Yes		
13	Skill Development training to 40 underprivileged/ Unemployed/ Underemployed Youths from different villages of Ranchi District Machine Operator –Plastics Processing (MO-PP) by Central Institute of Plastics Engineering & Technology (CIPET) Centre for Skilling & Technical Support (CSTS)	Point ii, Vocational skills training	Yes	Ranchi	Jharkhand	1 Year	35.93	35.93	Nil	No	Central Institute of Petro-chemicals Engineering & Technology (CIPET) (formerly known as Central Institute of Plastics Engineering & Technology (CIPET))	
14	General Medical Camp	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	8.00	2.07	Nil	Yes		
15	Specialized medical camp (3 camps)	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	8.31	7.91	Nil	Yes		

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

(A Subsidiary of Coal India Limited)



1	2	3	4	5		6	7	8	9	10	11	
				Item from the list of activities in Schedule VII in the act	Local area (Yes/No).						Location of the project. District	State
16	Skill Development Training to 40 youths from Command area of CMPDIL in Plastic Engineering Trade by CIPET Hq (MoU by CIL)	Point ii, Vocational skills training	Yes	Ranchi	Jharkhand	1 Year	28.00	28.00	Nil	No	Central Institute of Petrochemicals Engineering & Technology (CIPET) (formerly known as Central Institute of Plastics Engineering & Technology (CIPET))	
17	Containment of the Pandemic COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	2.00	2.00	Nil	Yes		
18	Containment of COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	7.00	6.98	Nil	Yes		
19	Sponsorship of 50 Nos. of special Children from Sreema Pratibandhi Kalyan Kendra (Society), Asansol	Point II, Schedule VII: Promoting Education	Yes	Asansol	West Bengal	1 Year	10.25	10.25	Nil	Yes		
20	Sponsorship to 20 Blind Student from Asansol Braille Academy, Asansol, West Bengal	Point II, Schedule VII: Promoting Education	Yes	Asansol	West Bengal	1 Year	9.14	9.14	Nil	Yes		

1	2	3	4	5		6	7	8	9	10	11	
				Location of the project.							Mode of Implementation Through Implementing Agency	CSR Registration number.
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	Mode of Implementation Direct (Yes/No.)		
21	Sponsorship to 23 Physically/Mentally Challenged Student from Asansol Anandam, Asansol, West Bengal	Point II, Schedule VII: Promoting Education	Yes	Asansol	West Bengal	1 Year	7.18	7.18	Nil	Yes		
22	Installation of PVC Water Tank at Shyamadevi Primary School	Point I, Schedule VII: Drinking water facility	Yes	Asansol	West Bengal	1 Year	0.09	0.09	Nil	Yes		
23	Installation of 60 Solar Street Lights Kendgore Gram Panchayat	Point iv, Schedule VII: Environmental Sustainability	Yes	Asansol	West Bengal	1 Year	14.66	12.39	Nil	Yes		
24	Swachhta Action Plan (CMPDIL RI I)	Point I, Schedule VII: Promoting Sanitation	Yes	Asansol	West Bengal	1 Year	1.50	1.50	Nil	Yes		
25	Medical Camp (TB Eradication)	Point I, Schedule VII: Promoting Healthcare	Yes	Asansol	West Bengal	1 Year	0.50	0.50	Nil	Yes		



1	2	3	4	5		6	7	8	9	10	11	
				Location of the project.	State						Mode of Implementation Through Implementing Agency	CSR Registration number.
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	Mode of Implementation Direct (Yes/No.)	Name	CSR Registration number.
26	Distribution of various aids and appliances to 51 persons with Disability from Asansol, West Bengal which will help them in work and performing their daily activities.	Point I, Schedule VII: Promoting Healthcare	Yes	Asansol	West Bengal	1 Year	8.18	7.09	Nil	Yes		
27	Installation of water purifier cooler at Shayamdih Pr-Primary school (State Govt. Primary school which caters to the education of total 143 enrolled students) which would cater safe drinking water need of the students and also be suitable in hot summer school sessions.	Point II, Schedule VII: Promoting Education	Yes	Asansol	West Bengal	1 Year	0.95	0.95	Nil	Yes		

1	2	3	4	5		6	7	8	9	10	11	
				Location of the project.							Mode of Implementation Direct (Yes/No.)	Mode of Implementation Through Implementing Agency Name
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	(Yes/No.)		
28	Providing Spring board for gymnastics to students of Shyamdihi Free Primary School is a State Govt. Primary school which caters to the education of total 143 enrolled students. so that the students can be trained and motivated through the proposed sports infrastructure.	Point II, Schedule VII: Promoting Education	Yes	Asansol	West Bengal	1 Year	0.21	0.21	Nil	Yes		
29	Specialized medical camp (3 camps)	Point I, Schedule VII: Promoting Healthcare	Yes	Asansol	West Bengal	1 Year	8.31	8.00	Nil	Yes		
30	Containment of the Pandemic COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Dhanbad	Jharkhand	1 Year	1.00	1.00	Nil	Yes		
31	Swachhita Action Plan (CMPDIL RI II)	Point I, Schedule VII: Promoting Sanitation	Yes	Dhanbad	Jharkhand	1 Year	1.50	1.49	Nil	Yes		
32	Medical Camp (TB Eradication)	Point I, Schedule VII: Promoting Healthcare	Yes	Dhanbad	Jharkhand	1 Year	0.50	0.50	Nil	Yes		

1	2	3	4	5		6	7	8	9	10	11	
				Item from the list of activities in Schedule VII in the act	Local area (Yes/No).						District	State
33	Specialized medical camp (1 camp)	Point I, Schedule VII: Promoting Healthcare	Yes	Dhanbad	Jharkhand	1 Year	2.77	2.66	Nil	Yes		
34	Containment of the Pandemic COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	2.00	2.00	Nil	Yes		
35	Containment of COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	4.15	4.15	Nil	Yes		
36	Installation of Eighteen No. Hand Pumps with Platform & Drainage arrangement at different locations of Bhageya Panchayat, Balumath, & Dumaro Panchayat, Chandwa, Distt - Latehar (Jharkhand).	Point I, Schedule VII: Drinking water facility	Yes	Latehar	Jharkhand	1 Year	18.00	13.52	Nil	Yes		

1	2	3	4	5		6	7	8	9	10	11	
				Location of the project.							Mode of Implementation Direct (Yes/No.)	Mode of Implementation Through Implementing Agency Name
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	(Yes/No.)		
37	Construction of Toilet block, external walls joining different units of school building, Sheds with platform for cultural programmes and other miscellaneous works for Rajkiya Utkramik Madhya Vidyalaya, Lapra & Bhuiyatoli, Khalaria, Distt. Ranchi (Jharkhand)	Point I, Schedule VII: Promoting Sanitation	Yes	Ranchi	Jharkhand	1 Year	14.00	12.62	Nil	Yes		
38	Construction of Toilet Blocks with Septic Tank, Soak Pit including Water Supply arrangement, Kitchen Shed & Miscellaneous works for Rajkiya Utkramit Madhya Vidyalaya, Siram (Bhageya), Bishunpur & Rajkiya Prathamik Vidyalaya Bara (Marangloiya), Distt. Latehar (Jharkhand).	Point I, Schedule VII: Promoting Sanitation	Yes	Latehar	Jharkhand	1 Year	15.00	12.37	Nil	Yes		



1	2	3	4	5		6	7	8	9	10	11	
				Location of the project.	State						Mode of Implementation Through Implementing Agency	CSR Registration number.
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	Mode of Implementation Direct (Yes/No.)	Name	
39	Construction of Sheds with platform for cultural programme, Kichen Sheds, Heightening of Boundary Wall and other miscellaneous works for Rajkiya Utkramik Madhya Vidhyalaya, Dumaro & Kali, Chandwa, Distt- Latehar. (Jharkhand)	Point II, Schedule VII: Promoting Education	Yes	Latehar	Jharkhand	1 Year	8.25	9.36	Nil	Yes		
40	Setting up of an integrated community health service center- Jan Clinic Patratu Block, Ramgarh District.	Point I, Schedule VII: Promoting Healthcare	Yes	Ramgarh	Jharkhand	1 Year	17.48	17.27	Nil	Yes		
41	Swachhta Action Plan (CMPDIL RI III)	Point I, Schedule VII: Promoting Sanitation	Yes	Ranchi	Jharkhand	1 Year	1.50	1.50	Nil	Yes		
42	Medical Camp (TB Eradication)	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	0.50	0.45	Nil	Yes		

1	2	3	4	5		6	7	8	9	10	11	
				Location of the project.							Mode of Implementation Direct (Yes/No.)	Mode of Implementation Through Implementing Agency Name
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	(Yes/No.)		
43	Specialized medical camp (5 camps)	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	13.85	13.30	Nil	Yes		
44	COVID 19 fund allocated in Feb 2021	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	11.68	12.06	Nil	Yes		
45	Spillover: Construction of village road at Banda village, Kendra-Yensa, Panchayat Samiti - Warora, Dist - Chandrapur, Maharashtra	Point x of Schedule 7: Rural Development Projects	Yes	Chandrapur	Maharashtra	1 Year	0.75	0.74	Nil	Yes		
46	Spillover: Installation of Water Filter Plant at Boregaon, Warora	Point I, Schedule VII: Drinking water facility	Yes	Chandrapur	Maharashtra	1 Year	14.34	7.50	Nil	Yes		
47	Containment of the Pandemic COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	2.00	2.00	Nil	Yes		
48	Containment of COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Ranchi	Jharkhand	1 Year	15.00	11.20	Nil	Yes		



1	2	3	4	5		7	8	9	10	11	
				Location of the project.	State					Mode of Implementation Through Implementing Agency	CSR Registration number.
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	Mode of Implementation Direct (Yes/No.)	Name	
49	Design, Installation and commissioning of Water Treatment Plant consisting of Fluoride treatment, RO treatment unit of 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.	Point I, Schedule VII: Drinking water facility	Yes	Chandrapur	Maharashtra	17.00	9.89	Nil	Yes		



1	2	3	4	5		6	7	8	9	10	11
				Location of the project.						Mode of Implementation Direct (Yes/No.)	Mode of Implementation Through Implementing Agency Name
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)		
50	Design, Installation and commissioning of Water Treatment Plant consisting of Fluoride treatment, RO treatment unit of 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.	Point I, Schedule VII: Drinking water facility	Yes	Chandrapur	Maharashtra	1 Year	17.00	9.89	Nil	Yes	
51	Supply, Installation and Commissioning of 2 Sets of Bio-Toilet units. Each Set consist of 6WC for men's and Women's each along with 2 nos of wash basin	Point I, Schedule VII: Promoting Sanitation	Yes	Chanrapur, Nagpur	Maharashtra	1 Year	6.00	0.00	Nil	Yes	



1	2	3	4	5		6	7	8	9	10	11	
				Location of the project.	State						Mode of Implementation Through Implementing Agency	CSR Registration number.
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	Mode of Implementation Direct (Yes/No.)	Name	
52	Supply, Installation and Commissioning of 2 Sets of Bio-Toilet units. Each Set consist of 6WC for men's and Women's each along with 2 nos of wash basin	Point I, Schedule VII: Promoting Sanitation	Yes	Chanrapur, Nagpur	Maharashtra	1 Year	6.00	0.00	Nil	Yes		
53	To Conduct General Medical Camp including Eye Camp in 5 villages of Chandrapur and Yawatmal District and necessary treatment/operation for all patients of villages and in addition to that approx treatment of 100 eye Patients through Mahatme Eye Bank and Eye Hospital. This Activity is taken under this year common theme of CSR activities i.e Health & Nutrition	Point I, Schedule VII: Promoting Healthcare	Yes	Chandrapur	Maharashtra	1 Year	5.50	4.57	Nil	Yes		

1	2	3	4	5		6	7	8	9	10		11
				Location of the project.						Mode of Implementation Direct	Mode of Implementation Through Implementing Agency	
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	Yes	Yes	
54	Swachhta Action Plan (CMPDIL RI IV)	Point I, Schedule VII: Promoting Sanitation	Yes	Chanrapur, Nagpur	Maharashtra	1 Year	1.50	1.50	Nil	Yes		
55	Medical Camp (TB Eradication)	Point I, Schedule VII: Promoting Healthcare	Yes	Chanrapur, Nagpur	Maharashtra	1 Year	0.50	0.50	Nil	Yes		
56	Specialized medical camp (3 camps)	Point I, Schedule VII: Promoting Healthcare	Yes	Chanrapur, Nagpur	Maharashtra	1 Year	8.31	6.12	Nil	Yes		
57	Spillover : Solar Power system installation including accessories at Hostel building of Govt. Blind and Deaf School, Bilaspur, Chhattisgarh	Point II, Schedule VII: Promoting Education	Yes	Bilaspur	Chhattisgarh	1 Year	1.52	1.50	Nil	Yes		
58	Spillover : Solar Electrification of Jan Swasthya Sahyog Kendra, Ganiyari, Chhattisgarh	Point I, Schedule VII: Promoting Healthcare	Yes	Bilaspur	Chhattisgarh	1 Year	4.15	4.15	Nil	Yes		
59	Containment of COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Bilaspur	Chhattisgarh	1 Year	11.69	7.98	Nil	Yes		
60	Containment of the Pandemic COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Bilaspur	Chhattisgarh	1 Year	2.00	2.00	Nil	Yes		

1	2	3	4	5		6	7	8	9	10		11	
				Item from the list of activities in Schedule VII in the act	Local area (Yes/No).					District	State	Project duration.	Amount allocated for the project (in Rs lakh).
61	Swachhta Action Plan (CMPDIL RIV)	Point I, Schedule VII: Promoting Sanitation	Yes	Bilaspur	Chhattisgarh	1 Year	1.50	1.50	Nil	Yes			
62	Medical Camp (TB Eradication)	Point I, Schedule VII: Promoting Healthcare	Yes	Bilaspur	Chhattisgarh	1 Year	0.50	0.50	Nil	Yes			
63	Specialized medical camp (3 camps) 2 medical camps from RI-VI	Point I, Schedule VII: Promoting Healthcare	Yes	Bilaspur	Chhattisgarh	1 Year	13.85	13.21	Nil	Yes			
64	Containment of the Pandemic COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Singrauli	Madhya Pradesh	1 Year	2.00	2.00	Nil	Yes			
65	Containment of COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Singrauli	Madhya Pradesh	1 Year	5.00	4.95	Nil	Yes			
66	Swachhta Action Plan (CMPDIL RI VI)	Point I, Schedule VII: Promoting Healthcare	Yes	Singrauli	Madhya Pradesh	1 Year	1.50	1.45	Nil	Yes			
67	Medical Camp (TB Eradication)	Point I, Schedule VII: Promoting Sanitation	Yes	Singrauli	Madhya Pradesh	1 Year	0.50	0.50	Nil	Yes			
68	Specialized medical camp (1 camp)	Point I, Schedule VII: Promoting Healthcare	Yes	Singrauli	Madhya Pradesh	1 Year	2.77	2.55	Nil	Yes			
69	Spillover: Construction of toilet block with water supply arrangement for slum dwellers Near CMPDIL Colony	Point xi, Schedule VII: Slum Development	Yes	Khurda	Odisha	1 Year	20.30	19.49	Nil	Yes			

1	2	3	4	5		6	7	8	9	10		11
				Location of the project.						Mode of Implementation Direct	Mode of Implementation Through Implementing Agency	
Sl. No.	Name of the project.	Item from the list of activities in Schedule VII in the act	Local area (Yes/No).	District	State	Project duration.	Amount allocated for the project (in Rs lakh).	Amount spent in the current financial year (in Rs lakh).	Amount transferred to Unspent CSR Account for the project as per Section 135(6) (in ₹ lakh)	(Yes/No.)	Name	
70	Spillover: Construction of toilet block for boys in Shishu Ananta Mahavidhyalaya, Balipatana	Point II, Schedule VII: Promoting Education	Yes	Khurda	Odisha	1 Year	3.89	4.12	Nil	Yes		
71	Containment of the Pandemic COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Khurda	Odisha	1 Year	3.00	3.00	Nil	Yes		
72	Containment of COVID-19	Point I, Schedule VII: Promoting Healthcare	Yes	Khurda	Odisha	1 Year	5.00	5.00	Nil	Yes		
73	Construction of IPD Block for Community Health Center, Kosla	Point I, Schedule VII: Promoting Healthcare	Yes	Khurda	Odisha	1 Year	30.00	20.26	Nil	Yes		
74	Swachhta Action Plan (CMPDIL VII)	Point I, Schedule VII: Promoting Sanitation	Yes	Khurda	Odisha	1 Year	1.50	1.50	Nil	Yes		
75	Medical Camp (TB Eradication)	Point I, Schedule VII: Promoting Healthcare	Yes	Khurda	Odisha	1 Year	0.50	0.49	Nil	Yes		
76	Specialized medical camp (3 camps)	Point I, Schedule VII: Promoting Healthcare	Yes	Khurda	Odisha	1 Year	8.31	8.25	Nil	Yes		

(c) Details of CSR amount spent against other than ongoing projects for the financial year 2021)

1	2	3	4	5		6	7	8	
				State.	District.			Name	CSR registration number.
Sl. No.	Name of the project	Item from the list of activities in schedule VII to the Act.	Local area (Yes/No).	Location of the project.	Amount spent for the project (in Rs).	Mode implementation Direct (Yes/No).	Mode of implementation through implementing agency.		
1.	Nil	NA	NA	NA	NA	NA	NA	NA	NA
	TOTAL								

(d) Amount spent in Administrative Overheads:

No amount 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)

₹ 465.68 Lakh only(Provisional)

(g) Excess amount for set off, if any

Sl. No.	Particular	Amount (in ₹)
I	Two percent of average net profit of the company as per section 135(5)	464.84
II	Total amount spent for the Financial year	465.68
III	Excess amount spent for the financial year [(ii)-(i)]	0.84
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)]	0.84

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 ₹)	Amount spent in the reporting financial year (in ₹)	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 ₹)
				Name of the Fund	Amount (in ₹)	Date of transfer	
1.	2019-20	Nil	NA	NA	NA	NA	NA
2.	2018-19	Nil	NA	NA	NA	NA	NA
3.	2017-18	Nil	NA	NA	NA	NA	NA
	TOTAL						

(b) Details of CSR amount spent in the financial year for ongoing projects of the preceding

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 ₹)	Amount spent on the project in the reporting Financial year (in ₹)	Cumulative amount spent at the end of reporting Financial Year. (in ₹)	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 2020-21

(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 ₹ 465.68 Lakhs in financial year 2020-21 which is more than statutory requirements of two percent of the average net profit (i.e. ₹ 464.84 Lakhs).

This is to certify that the implementation and monitoring of CSR activities is in compliance of CSR activities and Policy of CMPDIL.



(Manoj Kumar)

Chief Executive officer or
Managing Director or Director



(Pramod Singh Chauhan)

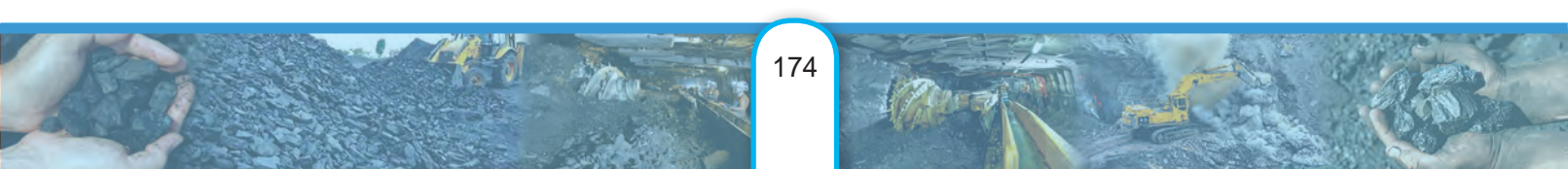
Chairman CSR Committee



(Alok Kumar)

Nodal Officer (CSR)
[Person specified under
clause (d) of sub-section (1)
of section 380 of the Act]
(Wherever applicable)

ANNUAL ACCOUNTS 2020-21



Central Mine Planning & Design Institute Limited

BALANCE SHEET as at 31.03.2021

(₹ in Crore)

	Note No.	As at 31.03.2021	As at 31.03.2020
ASSETS			
Non-Current Assets			
(a) Property, Plant & Equipments	3	182.64	174.12
(b) Capital Work in Progress	4	37.14	23.13
(c) Exploration and Evaluation Assets	5	-	-
(d) Intangible Assets	6	5.37	8.38
(e) Financial Assets			
(i) Investments	7	-	-
(ii) Loans	8	-	-
(iii) Other Financial Assets	9	1.06	1.02
(f) Deferred Tax Assets (net)		75.86	78.25
(g) Other non-current assets	10	1.73	0.81
Total Non-Current Assets (A)		303.80	285.71
Current Assets			
(a) Inventories	12	10.82	12.50
(b) Financial Assets			
(i) Investments	7	-	-
(ii) Trade Receivables	13	892.33	550.21
(iii) Cash & Cash equivalents	14	192.96	241.60
(iv) Other Bank Balances	15	-	-
(v) Loans	8	-	-
(vi) Other Financial Assets	9	121.18	52.14
(c) Current Tax Assets (Net)		25.32	52.31
(d) Other Current Assets	11	171.82	148.59
Total Current Assets (B)		1,414.43	1,057.35
Total Assets (A+B)		1,718.23	1,343.06
EQUITY AND LIABILITIES			
Equity			
(a) Equity Share Capital	16	142.80	38.08
(b) Other Equity	17	659.45	550.80
Equity attributable to equity holders of the company		802.25	588.88
Non-Controlling Interests		-	-
Total Equity (A)		802.25	588.88


BALANCE SHEET as at 31.03.2021

(₹ in Crore)

	Note No.	As at 31.03.2021	As at 31.03.2020
Liabilities			
Non-Current Liabilities			
(a) Financial Liabilities			
(i) Borrowings	18	-	-
(ii) Trade Payables (if any)			
(iii) Other Financial Liabilities	20	90.11	85.50
(b) Provisions	21	208.31	244.05
(c) Deferred Tax Liabilities (net)			
(d) Other Non-Current Liabilities	22	-	-
Total Non-Current Liabilities (B)		298.42	329.55
Current Liabilities			
(a) Financial Liabilities			
(i) Borrowings	18	-	-
(ii) Trade payables	19		
Total outstanding dues of micro and small enterprises		0.42	0.07
Total outstanding dues of Creditors other than micro and small enterprises		122.26	51.80
(iii) Other Financial Liabilities	20	61.20	50.30
(b) Other Current Liabilities	23	196.12	135.04
(c) Provisions	21	237.56	187.42
(d) Current Tax Liabilities (net)			
Total Current Liabilities (C)		617.56	424.63
Total Equity and Liabilities (A+B+C)		1718.23	1343.06

The Accompanying Notes and Note No 1, 2 & 38 form an integral part of Financial Statements.


(A. Mundhra)
Company Secretary


(P. K. Prasad)
General Manager (F)


(A. K. Rana)
Director
DIN-08531295


(Manoj Kumar)
Chairman-Cum-
Managing Director
DIN-08298541

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
UDIN 21074749AAAABB4228

Date: 28th May, 2021

Place: Ranchi

Central Mine Planning & Design Institute Limited

STATEMENT OF PROFIT & LOSS FOR THE YEAR ENDED 31ST MARCH, 2021

(₹ in Crore)

	Note No.	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Revenue from Operations			
A	24	1488.60	1381.31
B		-	-
(I)		1488.60	1381.31
(II)	25	22.10	21.70
(III)		1510.70	1403.01
(IV)			
	26	21.99	23.37
	27	-	-
	28	553.85	565.85
		2.90	3.19
	29	4.66	3.07
	30	25.34	28.06
	31	406.94	378.93
	32	0.16	0.20
		20.33	18.44
	33	1.45	-
	34	0.05	-
	35	58.54	69.28
		1096.21	1090.39
(V)		414.49	312.62
(VI)		-	-
(VII)		414.49	312.62
(VIII)	36	97.53	119.23
(IX)		316.96	193.39
(X)		-	-
(XI)		-	-
(XII)		-	-
(XIII)		-	-
(XIV)		316.96	193.39
	37		
A		(9.51)	(8.60)
		(2.39)	(2.16)

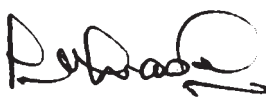
STATEMENT OF PROFIT & LOSS FOR THE YEAR ENDED 31ST MARCH, 2021

(₹ in Crore)

	Note No.	For the Year ended 31.03.2021	For the Year ended 31.03.2020
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		(7.12)	(6.44)
(XVI) Total Comprehensive Income for the period (XIV+XV) (Comprising Profit (Loss) and Other Comprehensive Income for the period)		309.84	186.95
Profit attributable to:			
Owners of the company		316.96	193.39
Non-controlling interest			
		316.96	193.39
Other Comprehensive Income attributable to:			
Owners of the company		(7.12)	(6.44)
Non-controlling interest			
		(7.12)	(6.44)
Total Comprehensive Income attributable to:			
Owners of the company		309.84	186.95
Non-controlling interest			
		309.84	186.95
(XVII) Earnings per equity share (for continuing operation):			
(1) Basic		2,219.61	1,354.27
(2) Diluted		2,219.61	1,354.27
(XVIII) Earnings per equity share (for discontinued operation):			
(1) Basic		-	-
(2) Diluted		-	-
(XIX) Earnings per equity share (for discontinued & continuing operation):			
(1) Basic		2,219.61	1,354.27
(2) Diluted		2,219.61	1,354.27

The Accompanying Notes form an integral part of Financial Statements.
Refer note 38 (5) (c) for calculation of EPS


(A. Mundhra)
Company Secretary



(P. K. Prasad)
General Manager (F)


(A. K. Rana)
Director
DIN-08531295


(Manoj Kumar)
Chairman-Cum-
Managing Director
DIN-08298541

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
UDIN 21074749AAAABB4228

Date: 28th May, 2021
Place: Ranchi



Central Mine Planning & Design Institute Limited

CASH FLOW STATEMENT (INDIRECT METHOD) FOR THE YEAR ENDED 31ST MARCH, 2021

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
A. CASH FLOWS FROM OPERATING ACTIVITIES:		
Profit before tax	414.49	312.62
Adjustment for:		
Depreciation & Impairment of Fixed Assets	20.33	18.44
Interest from Bank Deposits	(12.16)	(7.95)
Finance cost	0.160	0.20
Interest / Dividend from investments	-	0.00
Profit / Loss on sale of Fixed Assets	(0.01)	(0.04)
Other non-operating Income	(9.90)	(12.47)
Liability write back during the period	(0.03)	(1.24)
Advance Stripping Activity Adjustment	-	-
Operating profit before Current / Non Current Assets and Liabilities Adjustments for :	412.88	309.56
Trade Receivable	(342.12)	29.77
Inventories	1.68	(2.77)
Short/Long term Loans/Advances & Other Current Assets	(63.85)	45.09
Short/Long term Liabilities and Provisions	152.29	(85.94)
Cash generated from operations	160.88	295.71
Income Tax paid / refund	(95.14)	(117.07)
Interest paid	(0.16)	(0.20)
Net Cash Flow from Operating Activities (A)	65.58	178.44
B. CASH FLOWS FROM INVESTING ACTIVITIES		
Purchase of Fixed Assets	(39.85)	(29.27)
Proceeds from sale of Assets	0.01	0.04
Other Long Term Loans & Advances (Capital Advances) Activities	-	-
Interest received on Fixed Deposit / Loan to Subsidiary	12.16	7.95
Other non-operating Income	9.93	13.71
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)	(17.75)	(7.57)

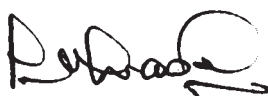
C. CASH FLOWS FROM FINANCING ACTIVITIES

Proceed from short term Borrowings/Govt. Grant	(0.79)	(0.30)
Repayment of Borrowings	-	-
Interest & Finance cost pertaining to Financing Activities	-	-
Receipt of Shifting & Rehabilitation Fund	-	-
Dividend & Dividend Tax	(95.68)	(64.59)
Buyback of Equity Share Capital	-	-
Net cash used in Financing Activities (C)	(96.47)	(64.89)
Net increase/ decrease in Cash & Bank Balances (A+B+C)	(48.64)	105.98
Cash & cash equivalents as at the beginning of the year (Refer Note 14 for components of cash & cash equivalents)	241.60	135.62
Cash & cash equivalents as at the end of the year (Refer Note 14 for compartments of cash & cash equivalents)	192.96	241.60

(All figures in bracket represent outflow)



(A. Mundhra)
Company Secretary



(P. K. Prasad)
General Manager (F)



(A. K. Rana)
Director
DIN-08531295



(Manoj Kumar)
Chairman-Cum-
Managing Director
DIN-08298541

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

UDIN 21074749AAAABB4228

Date: 28th May, 2021

Place: Ranchi

Central Mine Planning & Design Institute Limited

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED
(A Subsidiary of Coal India Limited)



STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 31.03.2021

A. EQUITY SHARE CAPITAL

(₹ in Crore)

Particulars	Balance as at 01.04.2019	Changes In Equity Share Capital During The Year	Balance as at 31.03.2020	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	38.08	104.72	142.80

B. OTHER EQUITY

	Equity portion of Preference Share Capital	Other Reserves				General Reserve	Other Comprehensive Income	Retained Earnings	Total	Non-Controlling Interest	Equity
		Capital Redemption reserve	Capital reserve	CSR Reserve	Sustainable Development Reserve						
Balance as at 01.04.2019	-	18.87	-	-	12.70	32.24	364.93	428.74	-	428.74	
Additions during the year	-	-	-	-	-	-	-	-	-	-	
Adjustments during the year	-	-	-	-	-	-	-	-	-	-	
Changes in accounting policy or Prior period errors	-	-	-	-	-	-	-	-	-	-	
Restated balance as at 01.04.2019	-	18.87	-	-	12.70	32.24	364.93	428.74	-	428.74	
Balance as at 01.04.2019	-	18.87	-	-	12.70	32.24	364.93	428.74	-	428.74	
Additions during the year	-	0.60	-	-	9.67	-	-	10.27	-	10.27	
Adjustments during the year	-	(0.90)	-	-	-	-	-	(0.90)	-	(0.90)	
Profit for the year	-	-	-	-	-	(6.44)	193.39	186.95	-	186.95	
Re measurement of Defined Benefits Plans (net of Tax) Appropriations	-	-	-	-	-	-	-	-	-	-	
Transfer to / from General reserve	-	-	-	-	-	-	(9.67)	(9.67)	-	(9.67)	
Transfer to / from Other reserves	-	-	-	-	-	-	-	-	-	-	

Central Mine Planning & 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	Others (Specify in note)	Total
Gross Carrying Amount:															
As at 1 April 2019	1.15	1.43	-	67.25	144.59	0.43	-	12.00	1.94	10.90	-	-	0.76	-	240.45
Additions	-	0.63	-	1.13	9.77	0.03	-	1.91	1.28	1.43	-	-	0.03	-	16.21
Deletions/Adjustments	-	-	-	(0.41)	(2.21)	-	-	(0.80)	0.02	(0.41)	-	-	(0.07)	-	(3.88)
As at 31st March 2020	1.15	2.06	-	67.97	152.15	0.46	-	13.11	3.24	11.92	-	-	0.72	-	252.78
As at 1 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
Accumulated Depreciation and Impairment															
As at 1 April 2019	-	0.09	-	6.05	46.76	0.11	-	4.62	1.05	5.34	-	-	-	-	64.02
Charge for the year	-	0.10	-	1.74	12.13	0.05	-	1.35	0.29	1.15	-	-	-	-	16.81
Impairment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deletions/Adjustments	-	-	-	(0.27)	(0.73)	(0.01)	-	(0.62)	0.03	(0.57)	-	-	-	-	(2.17)
As at 31st March 2020	-	0.19	-	7.52	58.16	0.15	-	5.35	1.37	5.92	-	-	-	-	78.66
As at 1 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deletions/Adjustments	-	-	-	(1.15)	(1.15)	-	-	(0.02)	(0.01)	(0.05)	-	-	-	-	(1.23)
As at 31st March 2021	-	0.35	-	9.29	70.97	0.21	-	6.64	1.86	7.03	-	-	-	-	96.35
Net Carrying Amount															
As at 31 st March 2021	1.15	2.59	-	59.86	104.20	0.28	-	7.39	1.49	4.93	-	-	0.75	-	182.64
As at 31 st March 2020	1.15	1.87	-	60.45	93.99	0.31	-	7.76	1.87	6.00	-	-	0.72	-	174.12

Note:

- 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
- Other Land includes Right of use Asset amounting to Rs 1.51 cr and accumulated amortization on the same is Rs 0.22 crores upto 31.03.21
- Depreciation has been provided as per Company's accounting policy. (Refer to note No 2)

Central Mine Planning & 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 April 2019	1.61	12.80	-	-	-	14.41
Additions	7.00	3.41	-	-	-	10.41
Capitalisation/ Deletions	(1.65)	(0.04)	-	-	-	(1.69)
As at 31st March 2020	6.96	16.17	-	-	-	23.13
As at 1 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
Accumulated Depreciation and Impairment						-
As at 1 April 2019	-	-	-	-	-	-
Charge for the year	-	-	-	-	-	-
Impairment	-	-	-	-	-	-
Deletions/Adjustments	-	-	-	-	-	-
As at 31st March 2020	-	-	-	-	-	-
As at 1 April 2020	-	-	-	-	-	-
Charge for the year.	-	-	-	-	-	-
Impairment	-	-	-	-	-	-
Deletions/Adjustments	-	-	-	-	-	-
As at 31st March 2021	-	-	-	-	-	-
Net Carrying Amount						-
As at 31st March 2021	20.01	17.13	-	-	-	37.14
As at 31st March 2020	6.96	16.17	-	-	-	23.13

Central Mine Planning & 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 2019	-
Additions	-
Deletions/Adjustments	-
As at 31st March 2020	-
As at 1 st April 2020	-
Additions	-
Deletions/Adjustments	-
As at 31st March 2021	-
Accumulated Provision and Impairment	
As at 1 st April 2019	-
Charge for the year	-
Impairment	-
Deletions/Adjustments	-
As at 31st March 2020	-
As at 1 st April 2020	-
Charge for the year.	-
Impairment	-
Deletions/Adjustments	-
As at 31st March 2021	-
Net Carrying Amount	
As at 31st March 2021	-
As at 31st March 2020	-

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 6 : OTHER INTANGIBLE ASSETS

(₹ in Crore)

	Computer Software	Others (specify in note)	Total
Gross Carrying Amount:			
As at 1 April 2019	11.39	-	11.39
Additions	6.95	-	6.95
Deletions/Adjustments	-	-	-
As at 31st March 2020	18.34	-	18.34
As at 1 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
Accumulated Amortisation and Impairment			
As at 1 April 2019	7.43	-	7.43
Charge for the year	2.53	-	2.53
Impairment	-	-	-
Deletions/Adjustments	-	-	-
As at 31st March 2020	9.96	-	9.96
As at 1 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
Net Carrying Amount			
As at 31st March 2021	5.37	-	5.37
As at 31st March 2020	8.38	-	8.38

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 7 : INVESTMENTS

(₹ in Crore)

	<u>As at 31.03.21</u>	<u>As at 31.03.20</u>
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:	-	-
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 & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 8 : LOANS

(₹ in Crore)

	<u>As at 31.03.21</u>	<u>As at 31.03.20</u>
Other Loans		
- Secured, considered good	-	-
- Unsecured, considered good	-	-
- Have significant increase in credit risk		
- Credit impaired		
	-	-
Less: Allowance for doubtful loans	-	-
	-	-
Total	-	-
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 & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 9 : OTHER FINANCIAL ASSETS

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
Non Current		
Bank deposits	-	-
Deposits with bank under		
- Mine Closure Plan	-	-
- Shifting & Rehabilitation Fund scheme	-	-
Receivable from Escrow Account for Mine Closure Expenses	-	-
Other Deposit and Receivables *	1.10	1.06
Less : Allowance for doubtful deposits	0.04	0.04
	<u>1.06</u>	<u>1.02</u>
TOTAL	<u>1.06</u>	<u>1.02</u>
Current		
Surplus Fund with CIL	-	-
Balance with Coal India Ltd		
Receivable from Escrow Account for Mine Closure Expenses	-	-
Current Account Balance with CIL	55.63	17.14
Less: Provision for Doubtful Advances	-	-
	<u>55.63</u>	<u>17.14</u>
Current maturities of long term loan		
Interest accrued	1.92	3.79
Claims & other receivables**	63.63	31.21
Less : Allowance for doubtful claims	-	-
	<u>63.63</u>	<u>31.21</u>
TOTAL	<u>121.18</u>	<u>52.14</u>

Note: (1) Other Deposit and Receivables* includes-

	31.03.2021	31.03.2020
Deposit to Gas Company & Others	0.02	0.02
Deposit to Electricity Company	0.80	0.72
Deposit P & T	0.07	0.07
Security Deposit Paid	0.10	0.11
Interest Receivable from Employee & others	0.11	0.14
Total	1.10	1.06

Note: (2) Claims & Other Receivables** includes -

	31.03.2021	31.03.2020
CLAIMS RECOVERABLE	7.03	5.83
RECEIVABLE DUE TO IND AS 115	46.15	23.28
RECEIVABLES FROM LIC (GRATUITY)	10.45	2.10
Total	63.63	31.21

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 10 : OTHER NON-CURRENT ASSETS

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
(i) Capital Advances	1.60	0.69
Less : Provision for doubtful advances	-	-
	1.60	0.69
(ii) Advances other than capital advances		
(a) Security Deposit for utilities	-	-
Less : Provision for doubtful deposits	-	-
	-	-
(b) Other Deposits and Advances	0.13	0.12
Less : Provision for doubtful deposits	-	-
	0.13	0.12
(c) Advances to related parties	-	-
Total	1.73	0.81



Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 11 : OTHER CURRENT ASSETS

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
(a) Advance for Capital	-	-
Less : Provision for doubtful advances	-	-
	-	-
(b) Advance for Revenue (goods & services)	6.57	0.61
Less : Provision for doubtful advances	0.20	0.23
	6.37	0.38
(c) Advance payment of statutory dues	0.05	0.11
Less : Provision for doubtful advances	-	-
	0.05	0.11
(d) Advance to Related Parties	-	-
(e) Other Advances and Deposits *	127.75	116.99
Less : Provision for doubtful advances	0.05	0.05
	127.70	116.94
(f) Input Tax Credit Receivable	37.70	31.16
Less: Provision	-	-
	37.70	31.16
(g) MAT CREDIT ENTITLEMENT	-	-
Less: Provision	-	-
	-	-
Total	171.82	148.59

Note :

1 -(e) Other Advances and Deposits *

(₹ in Crore)

	31.03.2021	31.03.2020
ADVANCE (XA)	0.74	0.56
PERMANENT IMPREST	0.06	0.06
T.A. (OFFICERS)	0.37	0.47
T.A. (STAFF)	0.36	0.58
MEDICAL ADVANCE	0.38	0.45
T.A. ADVANCE OUTSIDE COUNTRY	-	0.04
ADVANCE CIL SURVEY OF INDIA	77.37	77.37
ADVANCE CIL CIMFR LAB	21.18	10.59
C B M PROJECT	0.11	0.11
INCOME TAX UNDER PROTEST**	27.15	26.70
OTHERS	0.03	0.06
Total	127.75	116.99

** Income tax paid unde protest is Rs 27.15 crs. Out of this ₹ 0.95 cr relates to A.Y 2012-13, ₹ 23.73 cr relates to A.Y 2017-18, ₹ 0.64 cr relates to A.Y 2016-17, ₹ 0.68 cr relates to A.Y 2014-15, ₹ 0.58 cr relates to A.Y 2010-11, ₹ 0.12 crore relates to A.Y 2016-17, ₹ 0.45 relates to A.Y.2017-18

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 12 : INVENTORIES

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
(a) Stock of Coal		
Coal under Development	-	-
Stock of Coal (Net)	-	-
(b) Stock of Stores & Spares (at cost)	10.82	12.50
Add: Stores-in-transit	-	-
Net Stock of Stores & Spares (at cost)	10.82	12.50
(c) Stock of Medicine at Central Hospital	-	-
(d) Workshop Jobs and Press jobs		
	10.82	12.50

NOTES TO THE FINANCIAL STATEMENTS

NOTE- 13 : TRADE RECEIVABLES

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
Current		
Trade receivables		
- Secured, considered good	-	-
- Unsecured, considered good	892.33	550.21
- Have significant increase in credit risk		
- Credit impaired	4.48	3.05
	896.81	553.26
Less : Allowance for bad & doubtful debts	4.48	3.05
Total	892.33	550.21
CLASSIFICATION		
Secured, considered good		
Unsecured, Considered good	892.33	550.21
Have significant increase in credit risk		
Credit impaired	4.48	3.05

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 14 : CASH AND CASH EQUIVALENTS

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
(a) Balances with Banks		
- in Deposit Accounts	122.14	139.14
- in Current Accounts		
Interest Bearing (CLTD)	60.10	101.83
Non Interest Bearing	10.69	0.60
- 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) Others	-	-
Total Cash and Cash Equivalents	192.96	241.60
(g) Bank Overdraft	-	-
Total Cash and Cash Equivalents (net of Bank Overdraft)	192.96	241.60

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 15 : OTHER BANK BALANCES

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
Balances with Banks		
- Deposit accounts	-	-
- 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	-	-

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 16 : EQUITY SHARE CAPITAL

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
Authorised		
15,00,000 Equity Shares of ₹ 1000/- each	150.00	150.00
	150.00	150.00
Issued, Subscribed and Paid-up		
(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	27.58
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	38.08

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	1428000	100%

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 17 : OTHER EQUITY

	Equity portion of Preference Share Capital	Other Reserves				General Reserve	Other Comprehensive Income	Retained Earnings	Non-Controlling Interest	Equity
		Capital Redemption reserve	Capital reserve	CSR Reserve	Sustainable Development Reserve					
Balance as at 01.04.2019	-	18.87	-	-	12.70	32.24	364.93	-	428.74	
Additions during the year	-	-	-	-	-	-	-	-	-	
Adjustments during the year	-	-	-	-	-	-	-	-	-	
Changes in accounting policy or prior period errors	-	-	-	-	-	-	-	-	-	
Restated balance as at 01.04.2019	-	18.87	-	-	12.70	32.24	364.93	-	428.74	
Additions during the year	-	0.60	-	-	9.67	-	-	-	10.27	
Adjustments during the year	-	(0.90)	-	-	-	-	-	-	(0.90)	
Profit for the year	-	-	-	-	-	(6.44)	193.39	-	186.95	
Remeasurement of Defined Benefits plans (net of Tax)	-	-	-	-	-	-	-	-	-	
<u>Appropriations</u>	-	-	-	-	-	-	-	-	-	
Transfer to / from General reserve	-	-	-	-	-	-	-	-	-	
Transfer to / from Other reserves	-	-	-	-	-	-	(9.67)	-	(9.67)	
Interim Dividend	-	-	-	-	-	-	(27.11)	-	(27.11)	
Bonus	-	-	-	-	-	-	-	-	-	
Final Dividend	-	-	-	-	-	-	(26.47)	-	(26.47)	
Corporate Dividend tax	-	-	-	-	-	-	(11.01)	-	(11.01)	
Pre-operative expenses	-	-	-	-	-	-	-	-	-	
Balance as at 31.03.2020	-	18.57	-	-	22.37	25.80	484.06	-	550.80	

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 17 : OTHER EQUITY

	Equity portion of Preference Share Capital	Other Reserves				General Reserve	Other Comprehensive Income	Retained Earnings	Non-Controlling Interest	Equity
		Capital Redemption reserve	Capital reserve	CSR Reserve	Sustainable Development Reserve					
Balance as at 01.04.2020	-	18.57	-	-	22.37	25.80	484.06	-	550.80	
Additions during the year	-	0.19	-	-	15.85	-	-	-	16.04	
Adjustments during the year	-	(0.98)	-	-	-	-	-	-	(0.98)	
Changes in accounting policy or prior period errors	-	-	-	-	-	-	-	-	-	
Profit for the year	-	-	-	-	-	(7.12)	316.96	-	309.84	
Remeasurement of Defined Benefits Plans (net of Tax)	-	-	-	-	-	-	-	-	-	
Appropriations	-	-	-	-	-	-	-	-	-	
Transfer to / from General reserve	-	-	-	-	-	-	(15.85)	-	(15.85)	
Interim Dividend	-	-	-	-	-	-	(64.77)	-	(64.77)	
Bonus	-	-	-	-	(22.37)	-	(82.35)	-	(104.72)	
Final Dividend	-	-	-	-	-	-	(30.91)	-	(30.91)	
Corporate Dividend tax	-	-	-	-	-	-	-	-	-	
Pre-operative expenses	-	-	-	-	-	-	-	-	-	
Balance as at 31.03.2021	-	17.78	-	-	15.85	18.68	607.14	-	659.45	

(₹ in Crore)

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE -17 (Contd.) RESERVES & SURPLUS Contd...

CAPITAL RESERVE : Grant / Funds received under S&T, PRE, EMSC, CCDA etc as an implementing agency and used for creation of assets are treated as Capital Reserve and depreciation thereon is debited to Capital Reserve Account. The ownership of the asset created through grants lies with the authority from whom the grant is received. The details of Capital Reserve are as below :

(₹ in Crore)

PARTICULARS	S&T Grants	UNDP Grants	CCDA Grants	EMSC Grants	CIL R&D Grants	P.R.E Grants	CMM/CBM Clearing House Grants	Total
As per last Account	2.81	0.05	0.06	-	15.34	0.30	0.01	18.57
Addition	0.15	-	-	-	0.04	-	-	0.19
Less : Depreciation & Adjustment	2.96	0.05	0.06	-	15.38	0.30	0.01	18.76
TOTAL AS ON 31-03-2021	2.61	0.05	0.06	-	14.78	0.27	0.01	17.78
TOTAL AS ON 31-03-2020	2.81	0.05	0.06	-	15.34	0.30	0.01	18.57

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 18: BORROWINGS

(₹ in Crore)

	<u>As at 31.03.21</u>	<u>As at 31.03.20</u>
Non-Current		
Term Loans		
- From Banks	-	-
- From Other Parties	-	-
Loans from Related Parties	-	-
Other Loans	-	-
Total	<u>-</u>	<u>-</u>
CLASSIFICATION		
Secured	-	-
Unsecured	-	-
Current		
Loans repayable on demand		
- From Banks	-	-
- From Other Parties	-	-
Loans from Related Parties	-	-
Other Loans	-	-
Total	<u>-</u>	<u>-</u>
CLASSIFICATION		
Secured	-	-
Unsecured	-	-

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 19 : TRADE PAYABLES

(₹ in Crore)

	<u>As at 31.03.21</u>	<u>As at 31.03.20</u>
Current		
Micro, Small and Medium Enterprises	0.42	0.07
Other than Micro, Small and Medium Enterprises	122.26	51.80
Total	122.68	51.87

Trade payables - Total outstanding dues of Micro & Small enterprises

	31.03.2021	31.03.2020
a) Principal & Interest amount remaining unpaid but not due as at period end	0.42	0.07
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

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 20 : OTHER FINANCIAL LIABILITIES

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
Non Current		
Security Deposits	2.24	2.38
Earnest Money	2.97	0.82
Others *	84.90	82.30
Total	90.11	85.50
Current		
Surplus fund from Subsidiaries	-	-
Current Account with	-	-
- Subsidiaries	-	-
- IICM	-	-
Current maturities of long-term debt	-	-
Unpaid dividends	-	-
Security Deposits	3.81	2.27
Earnest Money	1.13	4.27
Payable for Capital Expenditure	12.38	6.25
Others *	43.88	37.51
Total	61.20	50.30

Note: Others* Includes -

	31.03.2021	31.03.2020
CONTRACTORS KEEP BACK	2.80	3.02
EXPLORATION KEEP BACK	80.12	77.54
ADV & DEPOSITS FROM EMPLOYEES	3.01	3.33
LEASE LIABILITY	1.34	0.57
SALARY WAGES & ALLOWANCES	41.51	35.35
Total	128.78	119.81

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 21 : PROVISIONS

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
Non Current		
Employee Benefits		
- Gratuity	76.03	103.78
- Leave Encashment*	76.20	89.91
- Other Employee Benefits	56.07	50.34
Site Restoration/Mine Closure	-	-
Stripping Activity Adjustment	-	-
Others	0.01	0.02
Total	208.31	244.05
Current		
Employee Benefits		
- Gratuity	33.38	26.11
- Leave Encashment	18.07	13.81
- Ex- Gratia	15.29	14.86
- Performance Related Pay	63.25	89.17
- Provision for National Coal Wages Agreement (NCWA)		
- Executive Pay Revision	-	-
- Other Employee Benefits	20.74	20.76
	150.73	164.71
Site Restoration/Mine Closure	-	-
Excise Duty on Closing Stock of Coal	-	-
Others**	86.83	22.71
Total	237.56	187.42

* Leave Encashment Liabilities is netted off of ₹ 17.04 Cr., deposited with LIC against the Actuarial Liabilities.

Others** This amount includes the estimated provisions of Revenue Expenses.

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 22 : OTHER NON CURRENT LIABILITIES

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
Shifting & Rehabilitation Fund	-	-
Deferred Income	-	-
Total	-	-

NOTES TO THE FINANCIAL STATEMENTS

NOTE 23 : OTHER CURRENT LIABILITIES

(₹ in Crore)

	As at 31.03.21	As at 31.03.20
Statutory Dues:		
Statutory Dues	68.84	44.89
Advance for Coal Import	-	-
Advance from customers / others	15.54	14.55
Cess Equalization Account	-	-
Others liabilities*	111.74	75.60
Total	196.12	135.04

Note - Others liabilities *

	31.03.2021	31.03.2020
C B M CELL	3.5	3.53
RELIEF FUND	0.04	0.04
EVWF		0.01
OTHER DEDUCTION	0.23	0.20
CREDIT FOR STALE CHEQUES	0.15	0.15
UNPAID FROM IMPREST	0.18	0.17
MINING ELECTRONIC GRANT	0.01	0.01
TESTING LABORATORY	0.28	0.28
UNDP FUND	0.27	0.27
CIL CIMFR FUND	0.21	0.21
FUNDS & OTHERS	106.87	70.73
Total	111.74	75.60

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 23 (Contd.)

OTHER CURRENT LIABILITIES (CONTD...)

Grants/Funds received under S&T, PRE, Detailed Drilling, R&D and disbursement thereof during the year are as below :

(₹ in Crore)

PARTICULARS	S&T GRANTS	PRE GRANTS	CCDA GRANTS	DETAILED EXPLORATION FOR NON-CIL	MINISTRY OF STEEL	CIL R&D FUNDS	Total
Opening Balance as on 01-04-2020	0.24	3.04	0.26	3.31	0.26	14.35	21.46
Addition							
1. MINISTRY OF COAL	9.89	91.94		351.32		-	453.15
2. MINISTRY OF STEEL	-					-	-
3. CIL KOLKATA	-	-	-	-	-	9.41	9.41
4. ADJUSTMENT	-	-	-	-	-	0.02	0.02
5. BANK INTEREST ON FUND	0.08	0.19	0.00	0.28	0.00	0.63	1.18
6. UNSPENT MONEY REFUND	1.17					0.38	1.55
	11.38	95.17	0.26	354.91	0.26	24.79	486.77
Less : Disbursement / Utilisation	9.99	93.04	0.01	353.36	0.00	23.07	479.47
Closing Balance as on 31-03-2021	1.40	2.13	0.25	1.55	0.26	1.72	7.31

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE - 24 : REVENUE FROM OPERATIONS

(₹ in Crore)

	For the Year ended	For the Year ended
	31.03.2021	31.03.2020
A. Sales of Services	1,753.79	1,629.66
Less -.Statutory Levies	265.19	248.35
Net Sales (A)*	1,488.60	1,381.31
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)	1,488.60	1,381.31

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 25 : OTHER INCOME

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Interest Income	12.16	7.95
Dividend Income	-	-
Other		
Apex charges	-	-
Profit on Sale of Assets	0.01	0.04
Gain on Foreign exchange Transactions	-	-
Lease Rent	-	-
Liability / Provision Write Backs	0.03	1.24
Misc. Income	9.90	12.47
Total	22.10	21.70

NOTES TO THE FINANCIAL STATEMENTS

NOTE 26 : COST OF MATERIALS CONSUMED

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Explosives	-	-
Timber	-	-
Oil & Lubricants	10.54	10.90
HEMM Spares	-	-
Other Consumable Stores & Spares	11.45	12.47
Total	21.99	23.37

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 27 : CHANGES IN INVENTORIES OF FINISHED GOODS, WORK IN PROGRESS AND STOCK IN TRADE

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
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 & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 28 : EMPLOYEE BENEFITS EXPENSES

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Salary and Wages (incl. Allowances and Bonus etc.)	360.89	335.92
Contribution to P.F. & Other Funds	137.62	171.88
Staff welfare Expenses	55.34	58.05
Total	553.85	565.85

NOTES TO THE FINANCIAL STATEMENTS

NOTE 29 : CORPORATE SOCIAL RESPONSIBILITY EXPENSE

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
CSR Expenses	4.66	3.07
Total	4.66	3.07

NOTES

(₹ in Crore)

A. Activity wise break-up of CSR Expenses :	For the year ended 31.03.2021	For the year ended 31.03.2020
Eradicating hunger, poverty and malnutrition	2.75	0.90
Promoting education, including special education and employment enhancing vocation skills	1.45	1.79
Gender equality and measures for reducing inequalities faced by socially and economically backward groups	0.12	
Environmental sustainability	0.12	0.06

A. Activity wise break-up of CSR Expenses :	For the year ended 31.03.2021	For the year ended 31.03.2020
Protection of national heritage, art and culture		
Benefit of armed forces veterans, war widows and their dependents		
Training to promote rural sports, nationally recognized sports, Paralympic sports and Olympic sports		
Contribution to fund set up by the Central government for socio economic development		
Contribution to incubators or research and development projects		
Contributions to Universities and Research Institutes		
Rural development projects	0.01	0.24
Slum area development	0.19	0.08
Disaster management, including relief, rehabilitation and reconstruction activities		
Total	4.66	3.07

B. CSR Expenditure Break-up

(₹ in Crore)

(a) Amount Required to be spent during the year	4.65	3.00
(b) Amount approved by the Board to be spent during the year	5.00	3.07
(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)]

(₹ in Crore)

	Opening Balance	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

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	Closing Balance
2020-21	Nil	4.65	4.66	0.01

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

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		From Company's bank A/C	From Separate CSR Unspent A/C	With Company	In Separate CSR Unspent A/C
2020-21	Nil	NA	NA	NA	NA	NA	NA

NOTES TO THE FINANCIAL STATEMENTS

NOTE 30 : REPAIRS

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Building	5.34	7.76
Plant & Machinery	10.31	9.67
Others	9.69	10.63
Total	25.34	28.06

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 31 : CONTRACTUAL EXPENSES

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Transportation Charges :		
Hiring of Plant and Equipments	-	-
Other Contractual Work	406.94	378.93
Total	406.94	378.93

NOTES TO THE FINANCIAL STATEMENTS

NOTE 32 : FINANCE COSTS

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Interest Expenses		
Borrowings	-	-
Unwinding of discounts	0.07	0.05
Others	0.09	0.15
Total	0.16	0.20

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 33 : PROVISIONS (NET OF REVERSAL)

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
ALLOWANCE / PROVISION MADE FOR		
Doubtful debts	1.45	
Doubtful Advances & Claims	-	-
Stores & Spares	-	-
Others	-	-
	1.45	-

NOTES TO THE FINANCIAL STATEMENTS

NOTE 34 : WRITE OFF (Net of past provisions)

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Doubtful debts	-	-
Less :- Provided earlier	-	-
Grade Variance	-	-
Doubtful advances	-	-
Less :- Provided earlier	-	-
	-	-
Stock of Coal	-	-
Less :- Provided earlier	-	-
	-	-
Others	0.05	-
Less :- Provided earlier	-	-
	0.05	-
Total	0.05	-

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 35 : OTHER EXPENSES

(₹ in Crore)

	For the year ended 31.03.2021	For the year ended 31.03.2020
Traveling expenses	12.27	20.36
Training Expenses	0.56	1.32
Telephone & Postage	1.63	3.89
Advertisement & Publicity	1.19	2.39
Freight Charges	-	-
Demurrage	-	-
Security Expenses	19.86	18.70
Service Charges of CIL	-	-
Hire Charges	10.43	8.41
Legal Expenses	0.06	0.04
Consultancy Charges	0.73	0.40
Under Loading Charges	-	-
Loss on Sale/Discard/Surveyed of Assets	-	0.03
Auditor's Remuneration & Expenses		
- For Audit Fees	0.09	0.21
- For Taxation Matters	-	0.01
- For Other Services	0.09	0.09
- For Reimbursement of Exps.	0.22	0.22
Internal & Other Audit Expenses	0.48	0.66
Rehabilitation Charges	-	-
Rent	0.80	0.55
Rates & Taxes	0.46	0.59
Insurance	0.08	0.11
Loss on Exchange Rate Variance	-	-
Rescue/Safety Expenses	-	-
Dead Rent/Surface Rent	-	-
Siding Maintenance Charges	-	-
R & D expenses	-	-
Environmental & Tree Plantation Expenses	0.36	0.37
Miscellaneous expenses	9.23	10.93
Total	58.54	69.28

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 36 : Tax Expense

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Current Year	95.14	79.03
Deferred tax	2.39	24.44
MAT Credit Entitlement	-	-
Earlier Years	-	15.76
Total	97.53	119.23

Reconciliation of tax Expenses and the Accounting profit	For the year ended 31.03.21	For the year ended 31.03.20
Profit Before Tax	414.49	312.62
At income tax rate of 25.168%	104.32	78.68
Less Tax on allowable expenses	24.21	21.70
Add: Tax on non deductible expenses	15.03	22.05
Income Tax Expenses as per normal (A)	95.14	79.03
Income tax under MAT provision(Sec 115JB) (B)	-	-
Tax Payable higher of A/B	95.14	79.03
MAT credit entitlement	-	-
Deferred tax	2.39	24.44
Tax for earlier years	-	15.76
Income tax expenses reported in statement of profit & loss	97.53	119.23
Effective income tax rate:	23.53	38.14

Central Mine Planning & Design Institute Limited

NOTES TO THE FINANCIAL STATEMENTS

NOTE 37 : Other Comprehensive Income

(₹ in Crore)

	For the year ended 31.03.2021	For the year ended 31.03.2020
(A) (i) Items that will not be reclassified to profit or loss		
Re-measurement of defined benefit plans	(9.51)	(8.60)
	(9.51)	(8.60)
(ii) Income tax relating to items that will not be reclassified to profit or loss		
Re-measurement of defined benefit plans	(2.39)	(2.16)
	(2.39)	(2.16)
Total (A)	(7.12)	(6.44)
(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)	(7.12)	(6.44)

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 ₹ 150 crore and ₹ 142.80 crore respectively as on March 31, 2021.

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 counter party, 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 remeasuring 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 Equipment and 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

Cost of Software recognized as intangible asset, is amortised on straight line method over a period of legal right to use or three years, whichever is less; with a nil residual value.

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 IndAS 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

All short term employee benefits are recognized in the period in which they are incurred.

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 for Provident fund and Pension under which the company pays fixed contribution into fund maintained by a separate statutory

body (Coal Mines Provident Fund) constituted under an enactment of law 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 Employee benefits

Certain other employee benefits namely benefit on account of LTA, LTC, Life Cover scheme, Group personal Accident insurance scheme, settlement allowance, post-retirement medical benefit scheme and compensation to dependents of deceased in mine accidents etc., are also recognised on the same basis as described above for defined benefits plan. These benefits do not have specific funding.

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 estimates.

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 geomining 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 consolidated 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 gratuity plan and other post-employment medical benefits and the present value of the gratuity obligation 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. Future salary increases and gratuity increases are based on expected future inflation rate.

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 PERIOD ENDED 31st MARCH, 2021.

1. Fair Value Measurement

(a) Financial Instruments by Category

(₹ in Crore)

	31 st March 2021		31 st March 2020	
	FVTPL	Amortised cost	FVTPL	Amortised cost
Financial Assets				
Investments :		-		-
Preference Share in Subsidiary				
- Equity Component		-		-
- Debt Component				
Mutual Fund/ICD		-		-
Loans		-		-
Deposits & receivable		122.24		53.16
Trade receivables		892.33		550.21
Cash & cash equivalents		192.96		241.60
Other Bank Balances		-		-
Financial Liabilities		-		-
Borrowings		-		-
Trade payables		122.68		51.87
Security Deposit and Earnest money		10.15		9.74
Other Liabilities		141.16		126.06

(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 2021			31 st March 2020		
	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 2021			31 st March 2020		
	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			122.24			53.16
Trade receivables			892.33			550.21
Cash & cash equivalents			192.96			241.60
Other Bank Balances			-			-
Financial Liabilities			-			-
Borrowings			-			-
Trade payables			122.68			51.87
Security Deposit and Earnest money			10.15			9.74
Other Liabilities			141.16			126.06

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.

Expected credit loss: The Company provides for expected credit risk loss for doubtful/ credit impaired assets, by lifetime expected credit losses (Simplified approach).

Expected Credit losses for trade receivables under simplified approach

(₹ in Crore)

	31.03.2021	31.03.2020
Gross Carrying Amount	896.81	553.26
Expected Loss rate	0.50%	0.55%
Expected Credit Loss allowance	4.48	3.05

31.03.2021

(₹ in Crore)

Gross Carrying Amount	Due for 2 month	Due for 6 month	Due for 1 years	Due for 2 years	Due for 3 years	Due for more than 3 years	Total
Ageing CIL Group	264.48	152.79	103.47	18.10	1.48	27.79	568.11
Ageing Outsider	141.02	104.60	25.71	22.45	17.16	17.76	328.70
Expected Loss rate	-	-	-	-	-	-	0.50%
Expected Credit (Loss allowance provision)	-	-	-	-	-	-	4.48

31.03.2020

(₹ in Crore)

Gross Carrying Amount	Due for 2 month	Due for 6 month	Due for 1 years	Due for 2 year	Due for 3 year	Due for more than 3 year	Total
Ageing CIL Group	217.93	100.57	37.41	1.98	6.19	25.06	389.14
Ageing Outsider	105.63	12.43	8.93	19.55	3.41	14.17	164.12
Expected Loss rate	-	-	-	-	-	-	0.55%
Expected Credit (Loss allowance provision)	-	-	-	-	-	-	3.05

Reconciliation of loss allowance provision – Trade receivables

(₹ in Crore)

Loss allowance on 01.04.2020	3.05
Change in loss allowance	1.43
Loss allowance on 31.03.2021	4.48

Significant estimates and judgments 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)

	31.03.2021	31.03.2020
Equity Share capital	142.80	38.08
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 medical care 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, wherein employer contribution is 2% of basic salary and Dearness Allowance per month. 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 to a separate trust named Coal Mines Provident Fund (CMPF). The contribution towards the fund during the period is ₹ 56.40 Crore (₹34.56 Crore) has been recognized in the Statement of Profit & Loss (Note 28).

b) Post-Retirement Medical Benefit – Non- Executive (CPRMSE-NE):

As a part of social security scheme under wage agreement, Company is providing Contributory Post-Retirement Medicare Scheme for non-executives (CPRMSE-NE), wherein fixed amount is being contributed by the company and charged to statement of profit and loss.

c) 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" (referred as New Pension Scheme "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



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 liability under the scheme is borne by the Company as per actuarial valuation at each Balance Sheet date.

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 for the scheme is recognised based on actuarial valuation at each Balance Sheet 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. The liability for the scheme is recognised based on actuarial valuation at each Balance Sheet date.

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 Balance Sheet date.

f) The Company operates some defined benefit plans as follows which are valued on actuarial basis:

(i) Funded-

- Gratuity
- Medical Benefits
- Leave Encashment

(ii) Unfunded

- Life Cover Scheme
- Settlement Allowance
- Group Personal Accident Insurance
- Leave Travel Concession

Total liability as on 31.03.2021 based on valuation made by the Actuary, details of which are mentioned below is ₹ 393.61 Crore. The total Liability of Gratuity is ₹ 177.85 crore out of which Rs 70.03 crore is funded. The total Liability of Leave encashment is ₹ 104.50crore out of which Rs 17.04 crore is funded.

The actuarial liability as on 31.03.2021:

(₹ in Crore)

Head	Opening Actuarial Liability as on 01.04.2020	Incremental Liability during the year	Closing Actuarial Liability as on 31.03.2021
Gratuity	170.20	7.65	177.85
Earned Leave	69.49	2.02	71.51
Half Pay Leave	28.66	4.33	32.99
Life Cover Scheme	0.67	(0.01)	0.66
Settlement Allowance Executives	2.66	0.02	2.68
Settlement Allowance Non-executives	0.88	(0.03)	0.85
Group Personal Accident Insurance Scheme	0.05	0.00	0.05
Leave Travel Concession	3.66	(0.77)	2.89
Medical Benefits Executives	85.67	5.64	91.31
Medical Benefits Non-Executives	9.32	3.50	12.82
Total	371.26	22.35	393.61

(ii) 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 31.03.2021
CERTIFICATES AS PER IND AS 19 (2015)**

Table 1: Disclosure Item

(₹ in Crores)

31.03.2020	Changes in Present Value of Obligation as at	31.03.2021
162.07	Present value of obligation as on last valuation	170.20
13.15	Current Service Cost	14.73
9.92	Interest Cost	10.74
-	Participant Contribution	-
-	Plan Amendments: Vested portion at end of period(Past Service)	-
-	Plan Amendments: Non-Vested portion at end of period (Past Service)	-
11.13	Actuarial gain/loss on obligations due to Change in Financial Assumption	-3.75
-	Actuarial gain/loss on obligations due to Change in Demographic assumption	-
-2.44	Actuarial gain/loss on obligations due to Unexpected Experience	12.83

-	Actuarial gain/loss on obligations due to Other reason	-
-	The effect of change in Foreign exchange rates	-
23.63	Benefits Paid	26.90
-	Acquisition Adjustment	-
-	Disposal/Transfer of Obligation	-
-	Curtailment cost	-
-	Settlement Cost	-
-	Other (Unsettled Liability at the end of the valuation date)	-
170.20	Present value of obligation as on valuation date	177.85

Table 2: Disclosure Item

(₹ in Crores)

31.03.2020	Changes in Fair Value of Plan Assets as at	31.03.2021
24.38	Fair value of Plan Assets at Beginning of period	42.45
1.61	Interest Income	2.91
40.00	Employer Contributions	52.00
-	Participant Contributions	-
-	Acquisition/Business Combination	-
-	Settlement Cost	-
23.63	Benefits Paid	26.90
-	The effect of asset ceiling	-
-	The effect of change in Foreign Exchange Rates	-
-	Administrative Expenses and Insurance Premium	-
0.09	Return on Plan Assets excluding Interest Income	-0.43
42.45	Fair value of Plan Assets at End of measurement period	70.03

Table 3: Disclosure Item

(₹ in Crores)

31.03.2020	Table Showing Reconciliation to Balance Sheet	31.03.2021
-127.75	Funded Status	-107.82
-	Unrecognized Past Service Cost	-
-	Unrecognized Actuarial gain/loss at end of the period	-
-	Post Measurement Date Employer Contribution(Expected)	-
-	Unfunded Accrued/Prepaid Pension cost	-
42.45	Fund Asset	70.03
170.20	Fund Liability	177.85

Table 4: Disclosure Item

31.03.2020	Table Showing Plan Assumptions	31.03.2021
6.60%	Discount Rate	6.85%
NA	Expected Return on Plan Asset	NA
9.00% for Executives & 6.25 % for Non-Executives	Rate of Compensation Increase(Salary Inflation)	9.00% for Executives & 6.25 % for Non-Executives
N/A	Pension Increase Rate	N/A
15,17	Average expected future service (Remaining working Life)	16,17
15,17	Average Duration of Liabilities	16,17
IALM 2006-2008 Ultimate	Mortality Table	IALM 2006-2008 Ultimate
60	Superannuation at age-Male	60
60	Superannuation at age-Female	60
0.30%	Early Retirement & Disablement (All Causes Combined)	0.30%

Table 5: Disclosure Item

(₹ in Crores)

31.03.2020	Expense Recognized in statement of Profit/Loss as at	31.03.2021
13.15	Current Service Cost	14.73
-	Past Service Cost(vested)	-
-	Past Service Cost(Non-Vested)	-
8.31	Net Interest Cost	7.83
-	Cost(Loss)/(Gain) on settlement	-
-	Cost(Loss)/(Gain) on curtailment	-
-	Actuarial Gain loss Applicable only for last year	-
-	Employee Expected Contribution	-
-	Net Effect of changes in Foreign Exchange Rates	-
21.46	Benefit Cost(Expense Recognized in Statement of Profit/loss)	22.56

Table 6: Disclosure Item

(₹ In Crores)

31.03.2020	Other Comprehensive Income	31.03.2021
11.13	Actuarial gain/loss on obligations due to Change in Financial Assumption	-3.75
-	Actuarial gain/loss on obligations due to Change in Demographic assumption	-
-2.44	Actuarial gain/loss on obligations due to Unexpected Experience	12.83
-	Actuarial gain/loss on obligations due to Other reason	-
8.69	Total Actuarial (gain)/losses	9.08
0.09	Return on Plan Asset, Excluding Interest Income	-0.43
	The effect of asset ceiling	
8.60	Balance at the end of the Period	9.51
8.60	Net(Income)/Expense for the Period Recognized in OCI	9.51



Table 7: Disclosure Item

(₹ In Crores)

31.03.2020	Table Showing Allocation of Plan Asset at end Measurement Period	31.03.2021
-	Cash & Cash Equivalent	-
-	Investment Funds	-
-	Derivatives	-
-	Asset-Backed Securities	-
-	Structured Debt	-
-	Real Estates	-
-	Special Deposit Scheme	-
-	State Government Securities	-
-	Government of India Assets	-
-	Corporate Bonds	-
-	Debt Securities	-
-	Annuity Contracts/Insurance Fund	-
-	Other	-
-	Total	-

Table 8: Disclosure Item

31.03.2020	Table Showing Total Allocation in % of Plan Asset at end Measurement	31.03.2021
-	Cash & Cash Equivalent	-
-	Investment Funds	-
-	Derivatives	-
-	Asset-Backed Securities	-
-	Structured Debt	-
-	Real Estates	-
-	Special Deposit Scheme	-
-	State Government Securities	-
-	Government of India Assets	-
-	Corporate Bonds	-
-	Debt Securities	-
-	Annuity Contracts/Insurance Fund	-
-	Other	-
-	Total	-

Table 9: Disclosure Item

Mortality Table	
Age	Mortality (Per Annum)
25	0.000931
30	0.000977
35	0.001202
40	0.00168
45	0.002579
50	0.004436
55	0.007513
60	0.011162
65	0.015932
70	0.024058

Table 10: Disclosure Item

(₹ In Crores)

31.03.2020		Sensitivity Analysis	31.03.2021	
Increase	Decrease		Increase	Decrease
164.13	176.82	Discount Rate (-/+ 0.5%)	170.85	185.52
-3.57%	3.89%	%Change Compared to base due to sensitivity	-3.93%	4.32%
173.11	167.38	Salary Growth (-/+ 0.5%)	181.33	174.46
1.71%	-1.66%	%Change Compared to base due to sensitivity	1.96%	-1.91%
170.40	170.01	Attrition Rate (-/+ 0.5%)	177.88	177.82
0.11%	-0.11%	%Change Compared to base due to sensitivity	0.02%	-0.02%
171.17	169.24	Mortality Rate (-/+ 10%)	177.98	177.72
0.57%	-0.57%	%Change Compared to base due to sensitivity	0.07%	-0.07%

Table 11: Disclosure Item

(₹ In Crores)

Table Showing Cash Flow Information	(₹ In Crores)
Next Year Total (Expected)	162.70
Minimum Funding Requirements	121.84
Company's Discretion	-

Table 12: Disclosure Item

Table Showing Benefit Information Estimated Future payments (Past Service)	
Year	
1	32.86
2	22.87
3	19.40
4	23.53
5	18.80
6 to 10	49.29
More than 10 years	238.13
Total Undiscounted Payments Past and Future Service	
Total Undiscounted Payments related to Past Service	
	404.86
Less Discount For Interest	
	227.02
Projected Benefit Obligation	
	177.85

Table 13: Disclosure Item

(₹ In Crores)

Table Showing Outlook Next Year Components of Net Periodic benefit Cost Next Period	
	(₹ In Crores)
Current service Cost(Employer portion Only) Next period	14.50
Interest Cost next period	11.06
Expected Return on Plan Asset	12.18
Unrecognized past service Cost	
Unrecognized actuarial/gain loss at the end of the period	-
Settlement Cost	-
Curtailment Cost	-
other(Actuarial Gain/loss)	-
Benefit Cost	13.38

Table 14: Disclosure Item

(₹ In Crores)

31.03.2020	Table Showing expected return on Plan Asset at end Measurement Period	31.03.2021
23.97	Current liability	31.79
146.23	Non-Current Liability	146.06
170.20	Net Liability	177.85

**ACTUARIAL VALUATION OF LEAVE ENCASHMENT BENEFIT (EL/HPL) AS AT
31.03.2021
CERTIFICATES AS PER IND AS 19 (2015)**

Table 1: Disclosure Item

(₹ in Crores)

31.03.2020	Changes in Present Value of Obligation as at	31.03.2021
77.00	Present value of obligation as on last valuation	98.15
4.59	Current Service Cost	5.69
4.36	Interest Cost	5.86
-	Participant Contribution	-
-	Plan Amendments: Vested portion at end of period (Past Service)	-
-	Plan Amendments: Non-Vested portion at end of period (Past Service)	-
8.68	Actuarial gain/loss on obligations due to Change in Financial Assumption	-2.95
-	Actuarial gain/loss on obligations due to Change in Demographic assumption	-
25.45	Actuarial gain/loss on obligations due to Unexpected Experience	22.99
-	Actuarial gain/loss on obligations due to Other reason	-
-	The effect of change in Foreign exchange rates	-
21.93	Benefits Paid	25.24
-	Acquisition Adjustment	-
-	Disposal/Transfer of Obligation	-
-	Curtailment cost	-
-	Settlement Cost	-
-	Other (Unsettled Liability at the end of the valuation date)	-
98.15	Present value of obligation as on valuation date	104.50

Table 2: Disclosure Item

(₹ in Crores)

31.03.2020	Changes in Fair Value of Plan Assets as at	31.03.2021
-	Fair value of Plan Assets at Beginning of period	-
-	Interest Income	-
-	Employer Contributions	42.24
-	Participant Contributions	-
-	Acquisition/Business Combination	-
-	Settlement Cost	-
-	Benefits Paid	25.24
-	The effect of asset ceiling	-
-	The effect of change in Foreign Exchange Rates	-
-	Administrative Expenses and Insurance Premium	-
-	Return on Plan Assets excluding Interest Income	0.04
-	Fair value of Plan Assets at End of measurement period	17.04

Table 3: Disclosure Item

(₹ in Crores)

31.03.2020	Table Showing Reconciliation to Balance Sheet	31.03.2021
-98.15	Funded Status	-87.47
-	Unrecognized Past Service Cost	-
-	Unrecognized Actuarial gain/loss at end of the period	-
-	Post Measurement Date Employer Contribution(Expected)	-
-	Unfunded Accrued/Prepaid Pension cost	-
-	Fund Asset	17.04
98.15	Fund Liability	104.50

Table 4: Disclosure Item

31.03.2020	Table Showing Plan Assumptions	31.03.2021
NA	Expected Return on Plan Asset	NA
9.00% for Executive & 6.25% for Non-Executives	Rate of Compensation Increase(Salary Inflation)	9.00% for Executive & 6.25% for Non-Executives
N/A	Pension Increase Rate	N/A
16,17	Average expected future service (Remaining working Life)	15,17
16,17	Average Duration of Liabilities	15,17
IALM 2006-08 Ultimate	Mortality Table	IALM 2006-08 Ultimate
60	Superannuation at age-Male	60
60	Superannuation at age-Female	60
0.30% p.a	Early Retirement & Disablement (All Causes Combined)	0.30% p.a
Ignored	Voluntary Retirement	Ignored

Table 5: Disclosure Item

(₹ in Crores)

31.03.2020	Expense Recognized in statement of Profit/Loss as at	31.03.2021
4.59	Current Service Cost	5.69
-	Past Service Cost(vested)	-
-	Past Service Cost(Non-Vested)	-
4.36	Net Interest Cost	5.86
-	Cost(Loss)/(Gain) on settlement	-
-	Cost(Loss)/(Gain) on curtailment	-
34.13	Actuarial Gain /loss	20.00
-	Employee Expected Contribution	-
-	Net Effect of changes in Foreign Exchange Rates	-
43.08	Benefit Cost(Expense Recognized in Statement of Profit/loss)	31.55

Table 6: Disclosure Item

(₹ in Crores)

31.03.2020	Other Comprehensive Income	31.03.2021
-	Actuarial gain/loss on obligations due to Change in Financial Assumption	-
-	Actuarial gain/loss on obligations due to Change in Demographic assumption	-
-	Actuarial gain/loss on obligations due to Unexpected Experience	-
-	Actuarial gain/loss on obligations due to Other reason	-
-	Total Actuarial (gain)/losses	-
-	Return on Plan Asset, Excluding Interest Income	-
-	The effect of asset ceiling	-
-	Balance at the end of the Period	-
-	Net(Income)/Expense for the Period Recognized in OCI	-

Table 7: Disclosure Item

Mortality Table	
Age	Mortality (Per Annum)
25	0.000931
30	0.000977
35	0.001202
40	0.00168
45	0.002579
50	0.004436
55	0.007513
60	0.011162
65	0.015932
70	0.024058

Table 8: Disclosure Item

(₹ in Crores)

31.03.2019		Sensitivity Analysis	31.03.2020	
Increase	Decrease		Increase	Decrease
93.29	93.17	Discount Rate (-/+ 0.5%)	98.94	110.68
-4.96%	5.49%	%Change Compared to base due to sensitivity	-5.32%	5.92%
103.39	84.88	Salary Growth (-/+ 0.5%)	110.54	99.02
5.34%	-4.87%	%Change Compared to base due to sensitivity	5.77%	-5.25%
98.28	88.55	Attrition Rate (-/+ 0.5%)	104.47	104.54
0.13%	-0.13%	%Change Compared to base due to sensitivity	-0.03%	0.03%
98.70	88.33	Mortality Rate (-/+ 10%)	104.43	104.58
0.56%	-0.56%	%Change Compared to base due to sensitivity	-0.07%	0.07%
93.29	103.54		98.94	110.68

Table 9: Disclosure Item

(₹ in Crores)

Table Showing Benefit Information Estimated Future payments	
year	₹ In Crores
1	11.65
2	8.46
3	8.84
4	11.36
5	12.03
6 to 10	32.87
More than 10 years	213.87
Total Undiscounted Payments Past and Future Service	
Total Undiscounted Payments related to Past Service	
	299.08
Less Discount For Interest	
	194.58
Projected Benefit Obligation	
	104.50

Table 10: Bifurcation of Net liability

(₹ in Crores)

31.03.2020	Table Showing expected return on Plan Asset at end Measurement Period	31.03.2021
8.24	Current liability	11.27
89.92	Non-Current Liability	93.23
98.15	Net Liability	104.50

4. Unrecognised items:

a) Contingent Liabilities (Ind AS-37)

Claims against the Company not acknowledged as debts (including interest, wherever applicable)

(a1)

(₹ in Crore)

Claims against the company not acknowledged as debt			
		31.03.2021	31.03.2020
1	Central Govt. Income Tax Service Tax Royalty Central Excise	45.45 8.87	37.14 8.89
2	State Govt. and Local authorities Sales Tax Entry Tax		
3	Central Public Sector Enterprises Suit against the company under litigation		
4	Others	3.54	3.63
	Total	57.86	49.66

(a2)

(₹ in Crore)

SI No.	Particulars	Central Government	State Government and other localities	CPSE	Others	Total
1	Opening as on 01.04.2020	46.03			3.63	49.66
2	Addition during the period	9.13			0	9.13
3	Claims settled during the year	0.84			0.09	0.93
	a. From opening balance	0.84			0.09	0.93
	b. Out of addition during the year					
	c. Total claims settled during the year (a+b)	0.84			0.09	0.93
4	Closing as on 31.03.2021	54.32			3.54	57.86

(a3) Contingent Liability

(₹ in Crore)

S. No.	Particulars	Amount as on 31.03.2021	Amount as on 31.03.2020
1	Central Government		
	Income Tax	45.45	37.14
	Central Excise		
	Clean Energy Cess		
	Central Sales Tax		
	Service Tax	8.87	8.89
	Others(Please Specify)		
	Sub-Total	54.32	46.03
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)			
4	Others: (If any)		
	Miscellaneous	3.54	3.63
	Sub-Total	3.54	3.63
	Grand Total	57.86	49.66

b) Commitments (Ind AS-37)

Estimated amount of contracts remaining to be executed on capital account not provided for others is ₹ 8.17 Crores (₹ 35.68 Crores).

Other Commitments amounts to ₹ 386.96 Crores (₹ 398.99 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 31.03.2021 are given below:

(₹ in Crore)

Provisions	Opening Balance as on 1.04.2020	Addition for the year ended 31.03.2021	Write back/ Adj. For the year ended 31.03.2021	Unwinding of discounts	Closing Balance as on 31.03.2021
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:	0.23 0.05		(0.03)		0.20 0.05
Note 12:-Inventories : Stock of Coal : Stock of Stores & Spares :	0.18		(0.02)		0.16
Note 13:-Trade Receivables : Provision for bad & doubtful debts :	3.05	1.43			4.48
Note 21 :- Non-Current & Current Provision: Performance related pay : NCWA: Executive Pay Revision: Mine Closure: NPS:	89.17 0.00 9.56	27.58 0.75	(53.50) 0.00 (3.03)		63.25 0.00 7.28



b) Authorised Share Capital

(₹ in Crore)

Particulars	As on 31.03.21	As on 31.03.20
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 31.03.2021	For the year ended 31.03.2020
i)	Net profit after tax in Rupees (Crores) attributable to Equity Share Holders	316.96	193.39
ii)	Weighted Average no. of Equity Shares Outstanding	1428000.00	1428000.00
iii)	Basic and Diluted Earnings per Share in Rupees (Face value ₹ 1000/- per share)	2219.61	1354.27

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)

iii) Key Managerial Personnel

Name	Designation	W.e.f
Shekhar Saran	Chairman-Cum-Managing Director	01.01.2016
K K Mishra	Director Technical	11.10.2018
R N Jha	Director Technical	30.01.2019
A K Rana	Director Technical	01.08.2019
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

Mukesh Choudhary	Govt. Nominee Director	26.05.2020
Pramod Singh Chauhan	Independent Directors	16.10.2019
R.N Sur	Chief Financial Officer	01.08.2020
Abhishek Mundhra	Company Secretary	18.02.2016

Remuneration of Key Managerial Personnel

(₹ in Crore)

SI No.	Remuneration to CMD, Whole Time Directors, CFO and Company Secretary	For the year ended 31.03.2021	For the year ended 31.03.2020
i)	Short Term Employee Benefits		
	Gross Salary	3.18	2.27
	Perquisites	0.72	0.64
	Medical Benefits	0.12	0.09
ii)	Post-Employment Benefits		
	Contribution to P.P. & other fund	0.49	0.57
iii)	Actuarial Valuation of Defined Benefits	2.24	2.02
iv)	Retirement Benefits		
	Leave Encashment	0.00	0.17
	Gratuity	0.40	0.20
v)	Termination Benefits		
	Leave Encashment		
	Gratuity		
	TOTAL	7.15	5.96

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)

SI No.	Payment to Independent Directors	For the year ended 31.03.2021	For the year ended 31.03.2020
i)	Sitting Fees	0.17	0.15

Balances Outstanding of Sitting Fees.

(₹ in Crore)

SI No.	Particulars	As on 31.03.2021	As on 31.03.2020
i)	Amount Payable	Nil	Nil
ii)	Amount Receivable	Nil	Nil



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 31.03.21

(₹ 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)	Out standing Balances (Payable/ Receivable)
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		41.34
Northern Coalfields Limited (NCL)								91.48		155.69
Mahanadi Coalfields Limited (MCL)								84.67		37.74
Coal India Limited (CIL)								8.01	56.10	16.38

Recent Accounting Pronouncements

Keeping in view the changing scenario of business, due to the pandemic COVID-19, the following amendments have been notified by Ministry of Corporate Affairs vide Notification dated 24th July 2020 essentially most of them tried to cover situations which have arisen due to COVID-19 and better financial reporting:-

i) **Ind AS 103- Business Combinations**

Notification brought out changes in definition of Business Combination and defined “Business” in more details, an optional test to identify concentration of fair value, element of business and assessing whether an acquired process is substantive.

As there is no Business Combination, no impact of the above in the financial Statement.

ii) **Amendment to Ind AS 107 & 109 – Financial Instruments and Disclosure**

Disclosure for uncertainty arising from interest rate benchmark reform and Temporary exceptions from applying specific hedge accounting requirements..

There is no exposure to hedge accounting hence no impact of the above in the Financial Statement.

iii) **Amendment to Ind AS 116- Leases**

A clarification has been provided on accounting Rent concession granted due to Pandemic COVID-19.

It has been clarified that such concession will be treated as a lease modification or not.

As no rent concession was granted, there is no impact of the above in the Financial Statement.

iv) **Amendments to Ind AS 1 and Ind AS 8 – Presentation of Financial Statements and Accounting Policies, Change in Accounting Estimates and Errors.**

A new definition of material has been introduced by this amendment, this is more refined and provides more clarity. Materiality has been defined as:

“Information is material if omitting, misstating or obscuring it could reasonably be expected to influence decision that the primary users of general purpose financial statements make on the basis of those financial statements, which provide financial information about a specific reporting entity.”

Financial Statement has been prepared incorporating amendments of Ind AS 1 and Ind AS 8 mentioned above with due care to materiality policy of the company.

v) **Amendment to Ind AS 10- Events after reporting Period**

A paragraph 21 of the Ind AS 10 have been substituted, in the amendments any non-adjusting events that could reasonably be expected to influence decisions that the primary users of general purpose Financial Statement make on the basis of those financial statements which provide financial information about a specific reporting entity have been added. Also, nature and estimates of the financial effect is required to be disclosed.

There is no non-adjusting event has accrued during the period that may influence the decision of the primary users of general purpose of financial statements.



vi) Amendments to Ind AS 34 – Interim Financial Reporting

Consequential of the above amendments have been notified.

There is no impact of the above in the Financial Statement.

vii) Ind AS-37 – Provisions, Contingent Liabilities and Contingent Assets

Consequential of the above amendments have been notified, and paragraph below on accounting of restructuring plans have been substituted as :-

A Management or Board decision to restructure taken before the end of the reporting period does not give rise to a constructive obligation at the end of the reporting period unless the entity has, before the end of the reporting period:

- a) started to implement the restructuring plan; or
- b) announced the main features of the restructuring plan to those affected by it in a sufficiently specific manner to raise a valid expectation in them that the entity will carry out the restructuring.

There is no such decision of restructuring taken by the board, hence there is no impact of the above in the Financial Statements.

c) Taxation (Ind AS-12)

An amount of ₹ 92.75 Crore (₹ 76.87 Crore) is provided in the accounts during the period ending 31.03.2021 towards income tax.

The Company is having a deferred tax asset (net) on the basis of calculation as per Ind AS-12, issued by Institute of Chartered Accountants of India.

Calculation of Deferred Tax

- (i) Deferred Tax Assets and Liability are being offset as they relate to Taxes on income levied by the same governing taxation laws.
- (ii) Deferred Tax Asset / (Liability) as at 31st March, 2020 and as at 31st March, 2021 is given below:-

	As at <u>31.03.2021</u>	As at <u>31.03.2020</u>
Deferred Tax Liability:		
Related to Fixed Assets	8.66	7.81
Deferred Tax Asset:		
Provision for doubtful Debts, claims, etc.	1.20	0.85
Employee separation and retirement	83.28	85.16
Others	0.04	0.05
Total deferred tax Assets	<u>84.52</u>	<u>86.06</u>
Net Deferred Tax Asset/ (Deferred Tax Liability) :	<u>75.86</u>	<u>78.25</u>

(₹ In Crores)

Details of Current Tax Assets	As at 31.03.2021	(₹ In Crores) As at 31.03.2020
Tax Deducted at Source	197.38	129.18
Provision for Income Tax	(172.06)	(76.87)
Current Tax Assets (Net)	25.32	52.31

(d) 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.

(e) 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.

(f) Current Liabilities

Estimated liability has been provided where actual liability could not be measured.

(g) 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.

(h) Value of imports on CIF basis

(₹ in Crore)

Particulars	For the year ended 31.03.2021	For the year ended 31.03.2020
(i) Raw Material	NIL	NIL
(ii) Capital Goods	16.03	3.86
(iii) Stores, Spares, Components & Others	0	0.32

(i) Expenditure incurred in Foreign Currency

(₹ in Crore)

Particulars	For the year ended 31.03.2021	For the year ended 31.03.2020
Travelling Expenses	0.04	0.32
Training Expenses	NIL	NIL
Consultancy Charges	NIL	NIL



Interest	NIL	NIL
Stores and Spares	NIL	NIL
Capital Goods	16.03	3.86
Others	NIL	0.32

(j) Earning in Foreign Exchange:

Particulars	For the year ended 31.03.2021	For the year ended 31.03.2020
Travelling Expenses	NIL	NIL
Training Expenses	NIL	NIL
Consultancy Charges	NIL	NIL
Others	0.00	0.02

k) Total Consumption of Stores and Spares (Refer Note No. 26)

(₹ in Crore)

Particulars	For the year ended 31.03.2021		For the year ended 31.03.2020	
	Amount	% of total consumption	Amount	% of total consumption
(i) Imported Materials	0.00	0.00	0.00	0.00
(ii) Indigenous	21.99	100.00	23.37	100.00

(l) Disaggregated revenue information:-

(₹ in Crore)

	For the Year ended 31.03.2021	For the Year ended 31.03.2020
Types of goods or service		
- Coal	-	-
- Others	1488.60	1381.31
Total revenue from contracts with customers	1488.60	1381.31
Types of customers		
- Power sector	6.45	12.19
- Non-Power Sector	1482.15	1369.12
- Others or services (CMPDIL)		
Total revenue from contracts with customers	1488.60	1381.31
Types of contract		
- FSA		
- E Auction		
- Others	1488.60	1381.31
Total revenue from contracts with customers	1488.60	1381.31

Total Revenue	1488.60	1381.31
CIL Groups	985.99	917.22
Outsider	502.61	464.09
Timing of goods or service		
-Goods transferred at a point in time		
-Goods transferred over time		
-Service transferred at a point in time	461.68	397.74
-service transferred over time	1026.92	983.57
Total revenue from contracts with customers	1488.60	1381.31

(m) Medical Benefits for retired Employees

The Company provides Post-Retirement Medical Facility to the retired employees and their spouse. The facility is covered by separate Post-Retirement Medical scheme for executive and non-executive. The Total funded Post retirement facility is Rs 41.71 crores & total Liability of PRMB-Executive is Rs 91.31 crores as on 31st March, 2021.

(n) Pension

The company has a defined contribution pension scheme for its employees, which is administered through CIL Executive Defined Contribution Pension Scheme-2007 trust. Funded status as on 31.03.2021 is ₹117.58 crore (₹105.85 crores) and liability for the same as on 31.03.2021 is ₹7.28crore (₹9.56 crore).

(o) 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 31.03.2021, discounted using above lessee's incremental borrowing rate were ₹1.94 Crore whereas lease liability as on 31.03.2021 recognised in the Balance sheet is ₹1.34 Crore.

(p) Others

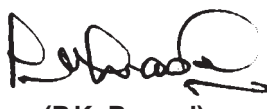
i) The company is taking continuous measure to combat the adverse impact of COVID 19 and has implemented manifold measures for ease of doing business. The company has considered the possible effects that may arise due to pandemic in the preparation of the financial statements including the recoverability of carrying amounts of financial and non-financial asset as on 31st March 2021. The Company will continue to closely monitor any material changes arising out of future economic conditions and the resultant impact on its business.



- ii) On 24th March, 2021 Ministry of Corporate Affairs (MCA) Through a notification, amended Schedule III of Companies Act, 2013. The Amendment revised Division I, II, & III of schedule III and are applicable from April 1, 2021. The Company is evaluating the effects of the amendments on its financial statements.
- iii) The Company has not deducted tax on Estimated Liability amounting to Rs 1.21 crores in case of RI-3 & Rs 1.21 crores in case of RI-4.
- iv) The Provisional Sales booked in F.Y 2020-21 is Rs 15.66 crores, out of this Rs 9.94 crore was reversed due to non-receipt of Invoice up till date. Similarly Provisional Sales booked in FY 2019-20 was Rs (1.20) crore, out of which Rs 0.62 crore was reversed in FY 2020-21. This practice is being consistently followed since long.
- v) Previous year/period's figures have been restated, regrouped and rearranged wherever considered necessary.
- vi) 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, 2021 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)


(A.K. Rana)
Director
DIN-08531295


(Manoj Kumar)
Chairman Cum-
Managing Director
DIN-08298541

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

UDIN : 21074749AAAABB4228

Date : 28th May, 2021

Place : Ranchi



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

