

Annual Report & Accounts

2015-16



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

(A Subsidiary of Coal India Limited)

A Mini Ratna Company (Cat-II)

GONDWANA PLACE: KANKE ROAD RANCHI - 834 031

CIN: U14292JH1975GOI 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.

GENERAL NOTE FOR SHAREHOLDERS OF COAL INDIA LIMITED

The Annual Accounts of CMPDI 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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Central Mine Planning & Design Institute Limited

BOARD OF DIRECTORS

EXECUTIVE DIRECTORS



Shri Shekhar Saran



Shri V.K. Sinha



Shri B.N. Shukla



Shri Binay Dayal

PART-TIME OFFICIAL DIRECTORS



Shri D.N. Prasad



Shri N. Kumar

INDEPENDENT DIRECTORS



Shri Rakesh K. Mittal



Dr. Debasish Gupta



Shri Rajender Parshad

PERMANENT INVITEE



Shri Peeyush Kumar

MANAGEMENT DURING 2015-2016

Shri Shekhar Saran	:	Chairman-cum-Managing Director (From 01.01.2016)
Shri Amal Kumar Debnath	:	Chairman-cum-Managing Director (Upto 31.12.2015)

Functional Directors

Shri V.K. Sinha	:	Director (Technical) (From 08.01.2014)
Shri B.N. Shukla	:	Director (Technical) (From 01.10.2015)
Shri Binay Dayal	:	Director (Technical) (From 01.12.2015)
Shri Shekhar Saran	:	Director (Technical) (Upto 31.12.2015)
Shri Rajesh Kumar Chopra	:	Director (Technical) (Upto 30.09.2015)
Shri Dilip Kumar Ghosh	:	Director (Technical) (Upto 30.11.2015)

Part – time official Directors

Shri Devulapalli Narasimha Prasad	:	Adviser (Projects), Ministry of Coal, (From 27.01.2010)
Shri Nagendra Kumar	:	Director (Technical), Coal India Ltd. (From 29.02.2012)

Independent Directors / Part -Time Non-Official Directors

Shri Rakesh Kumar Mittal	:	Director (From 01.11.2013)
Dr. Debasish Gupta	:	Director (From 17.11.2015)
Shri Rajender Parshad	:	Director (From 17.11.2015)

Company Secretary

Shri Abhishek Mundhra	:	(From 18.02.2016)
Shri P. Lazar	:	(From 01.04.2011 to 17.02.2016)



MEMBERS OF THE BOARD AS ON 13.06.2016

Functional Directors

Shri Shekhar Saran	:	Chairman-cum-Managing Director
Shri V.K. Sinha	:	Director (Technical)
Shri B. N. Shukla	:	Director (Technical)
Shri Binay Dayal	:	Director (Technical)

Part-time Official Directors

Shri Devulapalli Narasimha Prasad	:	Adviser (Projects), Ministry of Coal, New Delhi
Shri Nagendra Kumar	:	Director (Technical), Coal India Ltd.

Independent Directors

Shri Rakesh Kumar Mittal	:	Independent Director
Dr. Debasish Gupta	:	Independent Director
Shri Rajender Parshad	:	Independent Director

Permanent Invitee

Shri Peeyush Kumar	:	Director (Technical), Ministry of Coal, New Delhi (From 06.05.2016)
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Company Secretary

Shri Abhishek Mundhra	:	Company Secretary
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BANKERS, AUDITORS AND REGISTERED OFFICE

BANKERS

State Bank of India

Canara Bank

Union Bank of India

IDBI Bank

Axis Bank

AUDITORS

M/s K.C.Tak & Co.

Chartered Accountants,

1, New Anantpur, Ranchi-834002.

REGISTERED OFFICE

Central Mine Planning & Design Institute Limited,

Gondwana Place, Kanke Road, Ranchi - 834 031

Jharkhand, India

CIN: U14292JH1975GOI 001223

Website: www.cmpdi.co.in



NOTICE FOR THE 41ST ANNUAL GENERAL MEETING

No. CMPDIL/CS/AGM-41/2016/4808(B)

Dated: 13.06.2016

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited that the 41st Annual General Meeting of the Company will be held on Monday, 27th June at 10.30A.M. at the Registered Office of the Company, Gondwana Place, Kanke Road, Ranchi-834031 to transact the following business:

ORDINARY BUSINESS:

1. To consider and adopt the Audited Balance Sheet as on 31st March 2016, 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 appoint a Director in place of Shri N. Kumar (DIN: 02624808), official part-time Director who retires by rotation in terms of Section 152(6) of the Companies Act, 2013 and being eligible, offers himself for reappointment.
3. To appoint a Director in place of Shri V. K. Sinha (DIN: 06793778), 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.

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

Sd/-
(Abhishek Mundhra)
Company Secretary

N.B.

1. A member entitled to attend and vote, is entitled to appoint a proxy or proxies to attend and vote instead of himself and the proxy need not be a member of the Company. In order to be effective, the proxy form duly completed should be deposited at the registered office of the company not less than forty eight hours before the scheduled time of the Annual General Meeting.
2. Members are also requested to accord their consent for convening the meeting at a shorter notice pursuant to the provisions of the Section 101(1) of the Companies Act, 2013.
3. Pursuant to Section 142 of the Companies Act, 2013 and in accordance with the determination of the members of the company in its 27th Annual General Meeting held on 26th September 2002, authorising the Board of Directors to fix the remuneration of the Statutory Auditors appointed by Comptroller and Auditor General of India, the Board of Directors fixes the remuneration of Statutory Auditors appointed by Comptroller and Auditor General of India under Section 139 of the Companies Act, 2013.

To
 All the Shareholders
 All the Directors of the company
 The Chairman of the Audit Committee.
 The Chairman of the Nomination & Remuneration Committee
 The Statutory Auditor of the Company
 The Secretarial Auditor of the company

The Explanatory Statements pursuant to section 102 of the Companies Act, 2013

1. **Reappointment of Shri N. Kumar (DIN: 02624808) as official part-time Director**

Shri Nagendra Kumar (58) has graduated in Mining Engineering (B.Tech – Mining) from Indian School of Mines, Dhanbad in the year 1980. He joined CCL as junior Executive Trainee in 1980. In his first 20 years in CCL, he has worked for almost 6 years as Manager and 7 years as Project Officer. He was transferred to ECL in 2001 in the same capacity and assumed the charge of General Manager in 2004 and Chief General Manager in 2007. He has spent most of his career in reviving difficult underground and opencast mines and has the experience of working with almost all kind of mechanization in underground and opencast. He was actively associated with indigenization of Long Wall Equipment and has presented a number of papers on its successful implementation. His latest achievement is the successful operation of Continuous Miner in Jhanjra Area matching World Standards in production and safety. Shri Kumar is a member of MGMI, IMMA and Institution of Engineers. He has travelled foreign countries like South Africa and China, France, Italy and Germany. Shri Kumar is fond of cricket, books, old melody songs and Rabindra Sangeet too. He assumed the charge of Director (Technical) of Coal India Limited on 01.02.2012 and since then his functioning as Director (Technical) of Coal India Limited. In addition, he is holding Chairmanship of Coal India Africana Limitada and he is also holding Directorship in CIL and CMPDI. Besides, he is also holding the additional charge of CMD of BCCL.

He is Official Part-Time Director in CMPDI w.e.f. 29.02.2012.

2. **Reappointment of Shri V. K. Sinha (DIN: 06793778) as Whole time Director**

Shri Vinod Kumar Sinha (58) Director (Technical/ Research, Development & Technology), CMPDI, is a graduate in Mining Engineer (1978) from Indian School of Mines, Dhanbad. He has also obtained First Class Mine Manager's Certificate of Competency from DGMS, Dhanbad.

He joined Central Coalfields Limited as a JET in the year 1978 and worked in different capacities till 2001. He then joined Bharat Coking Coal Limited as Project Officer / Agent and worked as additional General Manager in Kusunda Area. During 2006-2008, he served a General Manager of Western Jharia Area, Mahuda and then from 2008-09 as General Manager of Eastern Jharia Area Sudamdih in BCCL.

He was instrumental in getting the ML4 powered supports re-commissioned at Moonidih and handled challenging assignment of Land Acquisition for expansion of Mines. He has also to his credit the introduction of Side Discharge Loader SDL in Murlidih 20/21 pit. During the period of his service as Chief General Manager (Sales & Marketing) in BCCL, under the new coal distribution policy he has made several contributions in revamping and regularisation of coal offer and allotment, Fuel Supply Agreement (FSA), corrective steps in end use of coal and refund mechanism in case of non core sector consumers and thereby enhancing the values to the stakeholder including



Central Mine Planning & Design Institute Limited

the consumers. He has also travelled countries like China, Turkey & Switzerland in relation to his professional work.

Prior to joining CMPDI, he was working as CGM (Contract Management Cell), BCCL and rendered valuable services by timely finalisation of various contracts. He has also visited foreign countries like Germany and France.

He is Director (Technical / Research Development & Technology), CMPDI w.e.f. 8.01.2014.



Chairman's Statement

Shri Shekhar Saran

Chairman-cum-Managing Director

Dear Shareholders,

I have great pleasure in extending a very warm welcome to all of you to the 41st Annual General Meeting of CMPDI and present to you the Annual Report of your Company for the financial year 2015-16. The Report of Directors and the Audited Accounts of your Company for the period ended 31st March, 2016 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. The growth Profile:

CMPDI 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, CMPDI 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, field services, etc. Similar services are also being provided to 'Other than CIL' clients including those from metal mining sectors. Additionally, CMPDI also renders services to Ministry of Coal and MoP&NG pertaining to non-CIL blocks, CBM and Shale Gas, etc.

Over the years after formation of CMPDI, 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 CMPDI personnel, significant buildup 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 fueled exodus of experts mainly after 2000 which continued for



next 5-6 years. Although, computerization to the extent possible, including use of software related to mining industry, addition of some equipment especially related to environmental facilities and coal characterization as well as introduction of ISO Standards could be carried out, the company was falling behind in overall upgradation of its services and facilities to a level of excellence.

Capacity of drilling, one of the core activities of CMPDI, 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 Rs.150 to Rs.200 crores (Rs.151 crore in 2004-05 and Rs.196 crore in 2007-08). The contribution in drilling was from departmental capacity only. In the beginning of the XI Plan, it was conceived that CMPDI 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. Parellely, expansion in the coal core testing capability of CMPDI was also carried out. Moreover, capacities of other laboratories like Environment, Mining Technology, etc., were also enhanced through upgradation with indigenous and imported equipment. A Coal Bed Methane laboratory was also established at CMPDI HQ, Ranchi. Subsequently, the administrative ministry i.e. MoC also came up with a scheme for enhancing the exploration capacity of CMPDI 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.

Your company came true in acceptance of the challenge and the departmental drilling capacity has been raised to a level of 4.08 lakh meter during 2015-16 through various initiatives like deployment of hydrostatic drills, manpower addition, etc., and thus, the set target for departmental drilling was surpassed. The total drilling carried out in 2015-16 was 9.94 lakh meter with a Cumulative Annualized Growth Rate in drilling of over 19% over the achievement of 2.06 lakh meter in 2006-07 (end of X Plan period). Moreover, the net sales of the company went up year-wise and has now been raised to a level of Rs. 759.27crore in 2015-16. However, the outsourced target could not be achieved by CMPDI in spite of best efforts from it in tackling the law and order problems prevailing in the areas of the coal blocks as well as due to non-availability of permission from the state forest officials / MoEF to carry out detailed drilling in forest areas with adequate number of boreholes density required for projectization. Moreover, CMPDI also contributed in a great way in re-allocation/auction of the de-allocated coal blocks by rendering its services in calculation of Intrinsic / Net Present Value for MoC. Consultancy services in respect of mining for metal mining companies like MOIL, HCL, Hutti Gold Mine, etc. were also started.

However, all the endeavors by the company in the past years did not get reflected, appreciably, in the top and the bottom lines of the company and thus, necessitating a relook on the business dynamics of CMPDI. Nonetheless, this also entails a proper study of future market scenario in the coal sector and possible opportunities for CMPDI for foray in other areas in a noticeable way. With this view, the Pricing Mechanism of the company is being studied with the help of ICWA and possible strategies for enhancing quantum of outside jobs (non-CIL) in value terms including enhancing the sales through diversification in areas of mining and allied engineering sectors of other than coal sector, development of alternative sources of coal based energy, etc., are being studied. Parellely, 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. Financial Performance:

During the financial year 2015-16, your company has achieved highest turnover of Rs 759.27 crore, with a profit before tax of Rs 42.54 crore. The net worth of your company has risen to Rs 214.98 crore as on 31.03.2016 from Rs 178.06 crore as on 31.03.2015. During the financial year, the earning per share is gone up to Rs. 1496.00 from Rs.1315.00 a year back.

3. Drilling Performance:

As stated above, your company carried out 9.94 lakh meter of drilling during 2015-16 in comparison to 8.28 lakh meter of drilling carried out during 2014-15 through departmental resources and outsourcing, registering a growth of 20% over previous year. The target for 2016-17 has been raised to 11 lakh meter by the Ministry of Coal which has necessitated emphasis on outsourcing of substantial number of coal blocks for drilling. CMPDI 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. The annual limit has further been enhanced to 4.00 lakh meter in 2015-16. Six rounds of National / Global tendering & nine rounds of e-tendering has been done since 2007-08 (till 2015-16) and work orders had been placed for 65 blocks involving 24.44 lakh meters.

4. Project Reports:

A total of 129 projects were identified for XII Plan resulting in capacity addition of about 495 Mty, against which, project reports for 103 projects, with capacity addition of about 430 Mty have already been formulated. Additionally, 56 Project Reports with capacity addition of about 147 Mty have been formulated till 31st March, 2016 during XII Plan period.

During the year under review, 26 Project Reports have been prepared with capacity addition of about 96 Mty. Also, Project Report for Gevra OC Expansion (70.0 Mty), the highest capacity mine of the country, was planned during the year which has been approved by Coal India Board in March 2016.

5. Upgradation of Laboratories:

Capacities of most of the laboratories in CMPDI have been upgraded. Chemical and Petrography laboratories have been upgraded with sophisticated imported equipment and the capacities have been enhanced. The existing Environment Laboratories at CMPDI (HQ), RI-I, RI-IV, RI-V & RI-VI have been strengthened with state of art equipment. Environment labs have also been established at RI-II & RI-VII with all sophisticated equipment required to comply with the environment clearance condition. Further upgradation of RI-I and RI-VII labs is underway. Surveillance assessment of Environment Laboratory of CMPDI HQ, RI-IV and RI-V by National Accreditation Board for Testing & Calibration of Laboratories (NABL) was done. Audit for OHSAS 18001 Management System for Environmental Labs at RI-IV, Nagpur and RI-V, Bilaspur was carried out by the Certification body and provisional certificates were issued.

6. Manpower Induction:

Manpower requirement of Exploration, Planning and Design as well as allied engineering services have been addressed. During 2015-16, 48 nos. of Management Trainees have been posted in CMPDI through recruitment and transfer. Similarly, 193 nos. of non-executive manpower have been added by transfer from other subsidiaries and process of addition of manpower is going on.



7. Land Reclamation Monitoring and Land use/vegetation cover mapping:

Since 2008, Satellite surveillance for land reclamation monitoring of all the opencast coal mines of CIL having production more than 5 million m³ (coal+OB) per annum was started annually. Further to this, land reclamation monitoring of the opencast coal mines of CIL having production less than 5 million m³ (coal+OB) per annum was also taken up from the year 2011 at the interval of three years.

Accordingly, land reclamation monitoring of 87 nos. of opencast projects of CIL based on high resolution satellite data has been completed during 2015-16. Vegetation cover mapping of 6 Coalfields viz. Karanpura, East Bokaro, West Bokaro, Singrauli, Korba and Bander was also carried out.

8. Assistance for setting up of coal washeries:

Technical assistance was provided to the subsidiary companies of CIL in setting up of 15 nos. of new coal washeries. E-tendering mode was opted to expedite the tendering process and identification of L1 bidder in record time. Out of these 15 nos. washeries, tender document on e-tender mode have been successfully floated for 6 nos. washeries.

9. Environmental Services:

During 2015-16, 50 nos. of EMPs (Environment Management Plans), including 16 Form-I, were prepared and Environmental Monitoring (air, water and noise) of 467 projects / establishments of CIL were carried out through eleven environmental laboratories located at Asansol, Dhanbad, Nagpur, Bilaspur, Kusmunda, Hasdeo, Jayant, Bhubaneswar, Talcher, Ib Valley and Ranchi. In terms of the revised guidelines issued by Ministry of Coal in 2013, CMPDI has prepared 37 nos. of mine closure plans for CIL mines during the year. However, considering the future requirement of environmental services and possibility of more stringent stipulations from MOEF, environmental services rendered by us would be required on a continual basis. Further, re-accreditation of CMPDI as Environmental Impact Assessment/Environmental Management Plan (EIA/EMP) consulting organization by Quality Council of India (QCI), New Delhi was done during the year.

10. Alternative source of coal based energy:

CMPDI 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.

CMPDI is pursuing envisaged activities on behalf of CIL for Coal Bed Methane (CBM) development in two blocks, namely Jharia and Raniganj North, allotted to the consortium of ONGC-CIL and extending support to CIL in taking up administrative and other issues viz. Contractual, Operational, etc.

To expedite commercial development of Coal Mine methane (CMM) within CIL areas, MoP&NG has granted right to exploration and exploitation of CBM to CIL and its subsidiaries on nomination basis from coal bearing areas for which they possess mining lease for coal. To expand the scope of development of CMM in CIL areas, further studies for "Assessment of CMM Potentiality in CIL Command Area" has been undertaken.

CMPDI is carrying out studies related to "Assessment of Coalbed Methane Gas-in-Place Resource of Indian Coalfields/Lignite fields" through boreholes being drilled under promotional exploration. Assessment reports on CBM Gas-in-Place for three (3) blocks (Subhadra West block, Dolesra block, & Brahmanbill block) have been submitted.

A project for mitigation and utilisation of VAM with CSIRO, Australia to be taken up under NCEF and CIL R&D funding is under finalisation. The project will be taken after competent approval of the Government.

Inter-Ministerial Committee (IMC) has been constituted by MoC for identification of areas for Underground Coal Gasification (UCG) on the lines broadly similar to the existing policy of CBM development. The second IMC meeting was held on 21st March, 2016 where potential blocks in coal and lignite were identified for the commercial development of UCG by PSUs.

11. S&T projects and R&D projects:

Your company 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 work by various academic and research institutes, CMPDI with its well established laboratories is also undertaking research in key areas like mining, coal exploration including Coal Bed Methane (CBM), Coal Mine Methane (CMM), Shale gas assessment, Coal beneficiation & Utilization and Mine environment related issues.

Over the last 41 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. Designed tools developed specifically for Indian geo-mining condition are now available for variety of problems like underground coal pillars design, analysis of roof cavability, prediction of surface subsidence, optimum blast design for various rock conditions, opencast slope stability, etc.

During 2015 -16, 6 nos. of S&T and R&D projects were completed. The completed projects were pertaining to (i) modeling of airborne dust in opencast mines, (ii) construction of quick setting stopping in case of fire in underground mines using expansion foam agent, (iii) Green House Gas Recovery from coal mines and coal beds for Conversion to Energy (GHG2E), (iv) development of rubber compound and repair techniques for trailing cables of underground mining machines, (v) development of dynamic GIS enabled Forward Cost Modeling (FCM) of land reclamation, control and monitoring of acid mine drainage problems in the context of continuation and expansion of the coal mining in Assam and (vi) design, develop and demonstrate a Micro-Grid system for optimization and control of multiple source of power supply. CMPDI is making efforts to involve more and more research and academic institutions. As a result, 29 S&T and R&D projects are under execution in association with various organizations.

Under the R&D project on construction of quick setting stopping in case of fire in underground mines using expansion foam agent, stoppings were constructed in Orient mine-3 and Hirakhand Bundia mine of MCL with new compound "Blockage-52" developed by NIT, Rourkela, CIL and M/s Trans Marketing, Kolkata. It was observed that it took hardly 72 man-hours to construct a stopping including preparatory works. In a shift, one stopping could be built comfortably with this new compound. Continuous monitoring was done to assess the effects of air circulation, blasting and other mining conditions on long term stability of these stoppings and was found completely resistive to the humidity or water leakage in underground mines. Total cost for construction of one stopping (2m x 3m x 0.20m size) with this new developed compound was around Rs.1,20,000/- only.



12. e-Procurement and Contract Management:

Your company was appointed as a consultant by the subsidiary companies of CIL viz. SECL, and BCCL for finalization of the bid documents for tenders related to construction of washeries in their command areas like Kusumunda and Baroud (SECL), Dugdha (BCCL) and Karo and Konar (CCL) on BOM/Turn-key basis. The mandate was for designing a module for finalization of tenders through electronic mode. The existing module available on the system does not have any provision for e-tendering of coal washeries on BOM or Turn-key basis. The Technical Parameter Sheet (TPS) and Bill of Quantity (BOQ) format were specially designed by CMPDI for obtaining information in a structured format and total cash out-flow based on yield percentage quoted by bidders. It is pertinent to mention here that such type of tenders through electronic media has been developed by CMPDI for the first time. After discussion with the respective companies, the module was finalized and submitted to them for further action at their end.

CMPDI has successfully introduced the system for online receipt, auto refund and reconciliation of Earnest Money Deposit (EMD) for tenders being uploaded on CIL portal. The new module will help in minimizing paper work, ensuring least human intervention and earlier refund of EMD to the unsuccessful bidders.

13. Corporate Social Responsibility and Sustainability:

Your company has built strong partnerships with the communities around its surroundings and also with the wider society through a well-conceived basket of CSR interventions for the betterment of lives of the people. Under CSR & Sustainability, sustainable development were emphasized and practiced by CMPDI. Major activities carried out during the year 2015-16 include Infrastructure Development in schools/villages, Educational support to poor and needy school children, Financial assistance to K.C.Roy Memorial Charitable Hospital, Ranchi for procurement of medical equipment, Skill Development/ Women Empowerment, Provisioning of drinking water by drilling and installation of bore wells in villages, etc.

14. Consultancy Services in Management System standards:

CMPDI provides consultancy services for all Management System standards applicable to the coal industry by facilitating the creation and documentation of management systems, providing training and auditing support, implementation, certification support and post certification support, etc.

As on date, a total of 105 units of different subsidiaries of CIL have certifications for the international standards, like, ISO 9001, ISO 14001, OHSAS 18001, ISO 27001, ISO 17025 and SA 8000. Besides these, two subsidiaries, MCL & NCL are certified for company-wide Integrated Management System (IMS integrating ISO 9001, ISO 14001 & OHSAS 18001) and support and guidance are being provided to other three subsidiaries viz. BCCL, CCL & ECL for transitioning from the unit-wise certification to the companywide Integrated Management System. Documentation was completed and document were released by the respective CMDs.

Being an ISO 9001 certified company, CMPDI was also able to achieve the certification for ISO 27001 for successfully implementing an Information Security Management System in September 2014 in its HQ. This certification was further extended to cover three of its Regional Institutes during 2015-16.

CMPDI started the consultancy work for the implementation of ISO 9001(QMS) & ISO 50001 (EnMS) for CIL HQ at Kolkata. Documentation and initial energy review were completed during 2015-16. CMPDI also provided support to the Ministry of Coal, Govt. of India during the surveillance audits for ISO 9001 by the Bureau of Indian Standards

15. Consultancy-Other than CIL

During the year 2015-16, 18 consultancy jobs were completed for 13 organisations outside CIL. Some of the major clients / organizations to whom jobs were provided / completed are Tata Steel, MOIL Ltd., NMDC, Punjab State Power Corporation Ltd. Presently, 19 outside consultancy jobs are in hand for 15 organisations like SAIL, MOIL, Tata Steel, IDCO, NTPC, Odisha Coal and Power Ltd., Gujarat State Electricity Corporation Ltd., MP Power Generating Co. Ltd., UCIL, NMDC, etc.

During the year 2015-16, 33 outside consultancy jobs worth Rs. 39.37 crores from 28 organizations were procured by CMPDI. This is the highest ever value of jobs obtained in a year by CMPDI.

16. Information and Communication Technology services

During the year 2015-16, following online modules were developed under Human Resources Information System for CIL:

- Transfer request module for Executives
- Mentor-mentee module
- K-mining (Knowledge mining) module
- Employee suggestion module

Also, online bank card rate system for CIL was developed. This online system facilitates banks to upload their quoted interest rate for deposits for the scrutiny of CIL. Further, Vigilance clearance / monitoring system was developed for CIL. Annual Property Return system was also extended to non-executives under Lokpal and Lokayukta Act.

File tracking and dispatch through digital platform 'e-Office', developed by NIC, has become functional at CMPDI on pilot basis for bringing in transparency from 6th November '15 which was inaugurated by Shri Anil Razdan, former Secretary (Power), Govt. of India.

17. Recognition and Awards:

The Government of India recognized the contribution and relevance of CMPDI and conferred it with the status of a Mini Ratna (Category-II) in accordance with the provisions of the Department of Public Enterprise's (DPE's) guidelines in May, 2009. 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 CMPDI got reflected in getting Excellent MoU (between CIL & CMPDI) rating from DPE consistently since 2007-08 (barring 2010-11). CMPDI received the 'Corporate Award for Excellent MoU for 2014-15' on the occasion of CIL Foundation Day, 2015 celebrated on 1st November, 2015 at Kolkata. **CMPDI also got the third best MoU rating (provided by DPE) of 1.002 for 2014-15 amongst all CPSEs and the best MoU Rating in the "Energy, Power Generation & Transmission" Syndicate.**

18. 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 CMPDI. 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.

Acknowledgement

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

I express my sincere thanks to all 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.

Place : Ranchi
Date : 27.06.2016

Sd/-
(Shekhar Saran)
Chairman-cum-Managing Director

Performance at a glance

	Particulars	Unit	2015-16	2014-15	2013-14
1	Sales of Services (Net Sales)	₹ in crore	759.27	726.72	647.43
2	Profit before Tax	₹ in crore	42.54	39.33	34.60
3	Profit after Tax	₹ in crore	28.48	25.04	19.57
4	Retained Profit	₹ in crore	28.48	25.04	19.57
5	Net Block	₹ in crore	99.99	80.83	72.11
6	Net Worth	₹ in crore	214.98	178.06	155.88
7	Current Assets	₹ in crore	688.23	688.82	629.85
8	Current Liabilities	₹ in crore	550.27	505.81	491.13
9	Working Capital [(7) - (8)]	₹ in crore	137.96	183.01	138.72
10	Capital Employed	₹ in crore	237.95	263.84	210.83
11	Gross Margin	₹ in crore	50.66	49.90	44.09
12	Number of Employees	Numbers	3626	3634	3135
13	Return Capital Employed	₹ in crore	17.88	14.91	16.41
14	Earnings Per Share	in ₹	1496.00	1315.00	1028.00

Net Worth = Paidup Capital
+ Reserve & Surplus -
Accumulated loss & deferred
revenue expenditure

Gross Margin = Net Profit +
Depreciation + Interest + PP
Adjustment + Tax Expenses

Capital Employed = Net Block
+ Working Capital

Value Added = Gross Margin -
10% of Capital Employed

Note : Previous year's figures have been re-arranged/ re-grouped /re-classified wherever necessary to make comparable with those of current period.



Financial Overview & Statistics

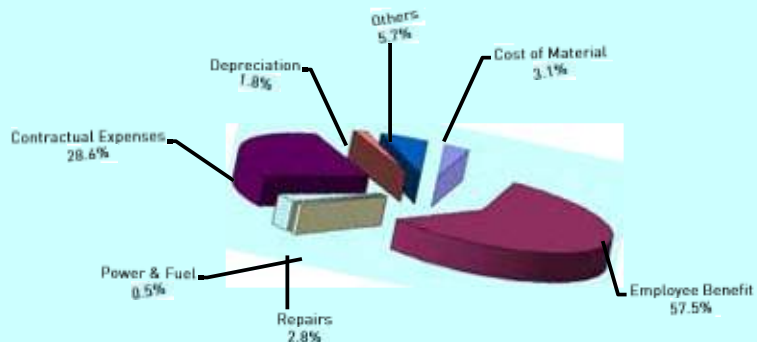
₹ in crore					
	As at 31.03.16		As at 31.03.15		As at 31.03.14
SOURCE OF FUNDS					
EQUITY AND LIABILITIES					
Shareholders' Fund					
a) Share Capital	19.04		19.04		19.04
b) Reserves & Surplus	195.94		159.02		136.84
		214.98		178.06	155.88
Non-Current Liabilities					
a) Long Term Borrowing	-		-		-
b) Deferred Tax Liability (Net)	-		-		-
c) Other Long Term Liabilities	-		-		-
d) Long Term Provisions	195.92		225.74		183.51
		195.92		225.74	183.51
Current Liabilities					
a) Short Term Borrowing	-		-		-
b) Trade Payables	0.99		0.77		0.52
c) Other Current Liabilities	236.72		195.63		268.27
d) Short Term Provisions	312.56		309.41		222.34
		550.27		505.81	491.13
Total		961.17		909.61	830.52
APPLICATION OF FUNDS					
Non-Current Assets					
(a) Fixed Assets					
i) Tangible Assets - Gross Block	225.21		195.92		181.6
Less : Depreciation, Impairment & Provisions	128.07		119.62		109.49
Net Carrying Value		97.14		76.30	72.11
ii) Intangible Assets - Gross Block	7.84		7.55		2.21
Less : Depreciation, Impairment & Provisions	4.99		3.02		2.21
Net Carrying Value		2.85		4.53	-
iii) Capital Work-in-Progress		61.44		29.44	24.93
iv) Intangible Assets under Development		-		-	-
(b) Non-Current Investment		-		-	-
(c) Deferred Tax Assets (Net)		100.47		106.43	101.59
(d) Long Term Loans & Advances		11.02		4.07	2.02
(e) Other Non-Current Assets		0.02		0.02	0.02
Current Assets					
(a) Current Investments	-		-		-
(b) Inventories	7.41		6.10		5.77
(c) Trade Receivables	248.24		236.36		198.34
(d) Cash & Cash equivalents	124.30		85.92		109.18
(e) Short Term Loans & Advances	308.23		360.39		316.51
(f) Other Current Assets	0.05		0.05		0.05
		688.23		688.82	629.85
Total		961.17		909.61	830.52

Financial Overview & Statistics

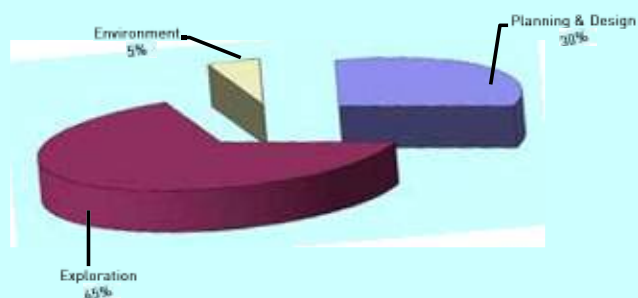
	₹ in crore		
	Figures For the Year ended 31.03.16	Figures For the Year ended 31.03.15	Figures For the Year ended 31.03.14
INCOME			
Sale of Coal			
Less : - Excise Duty			
Other Levies			
Revenue From Operations	759.27	72 6.72	647.43
Other Income	5.08	5.48	5.01
Total Revenue	764.35	732.20	652.44
EXPENSES			
Cost of Material Consumed	21.92	21.43	19.99
Change in inventories of finished goods work in progress and Stock in trade	-	-	-
Employee benefit expenses	412.4	402.73	378.04
Power & Fuel	3.55	2.97	3.11
CSR Expenses	2.01	1.68	1.82
Repairs	19.9	15.22	14.25
Contractual Expenses	205.09	191.09	152.27
Finance Costs	0.24	0.24	0.17
Depreciation/amortization/Impairment	12.66	10.32	9.83
Provisions	(0.11)	(0.07)	(0.19)
Write off	-	-	-
Overburden Removal Adjustment	-	-	-
Other Expenditure	48.93	47.25	39.06
Total Expenses	726.59	692.86	618.35
Profit/Loss before exceptional & extraordinary items & tax	37.76	39.34	34.09
Prior Period Adjustment { charges/ (incomes) }	(4.78)	0.01	(0.51)
Exceptional Items			
Profit/ (Loss) before extraordinary items and tax	42.54	39.33	34.60
Extraordinary Items { charges/ (incomes) }	-	-	-
Profit/ (Loss) before Tax	42.54	39.33	34.60
Less : Tax Expenses			
- Current year	8.10	19.13	19.15
- Deferred Tax	5.96	(4.84)	(6.05)
- Earlier years	-	-	1.93
Profit/ (Loss) for the period	28.48	25.04	19.57
Earning per equity share (in ₹)			
(Face Value of ₹1000/- per share)			
(1) Basic (in ₹.)	1496.00	1315.00	1028.00
(2) Diluted (in ₹.)	1496.00	1315.00	1028.00

FINANCIAL OVERVIEW OF CMPDIL

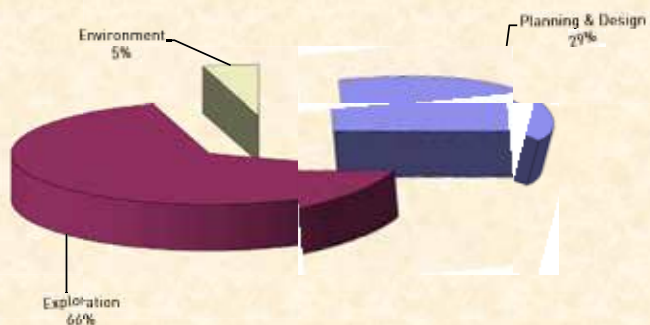
Expenditure Breakup 2015-16



Sales Breakup (Unitwise) 2015-16

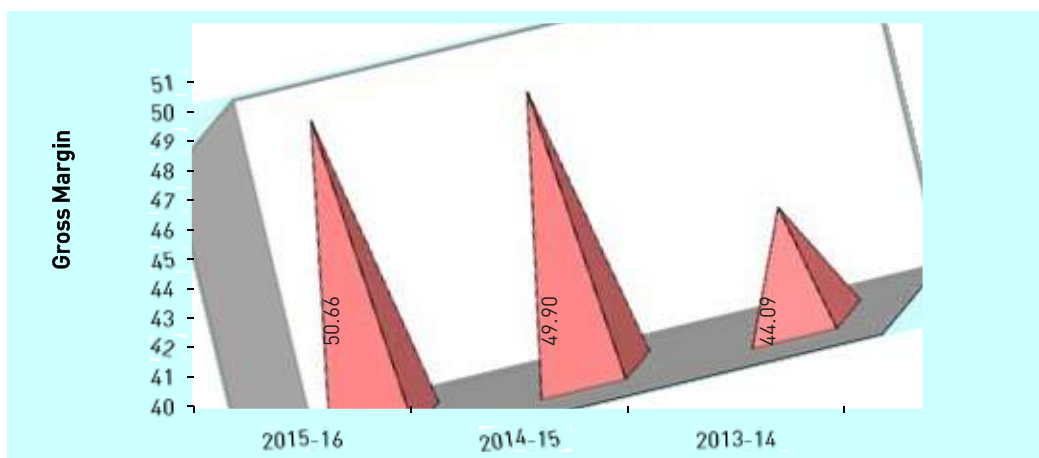


Expenditure Breakup(Unitwise) 2015-16



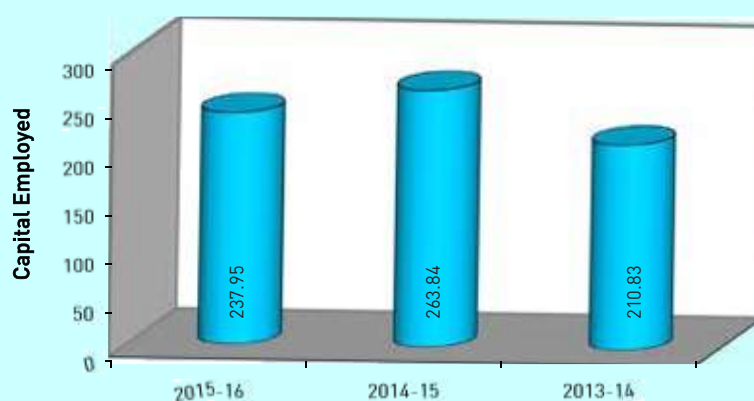
FINANCIAL OVERVIEW OF CMPDIL

Gross Margin ₹ in crore



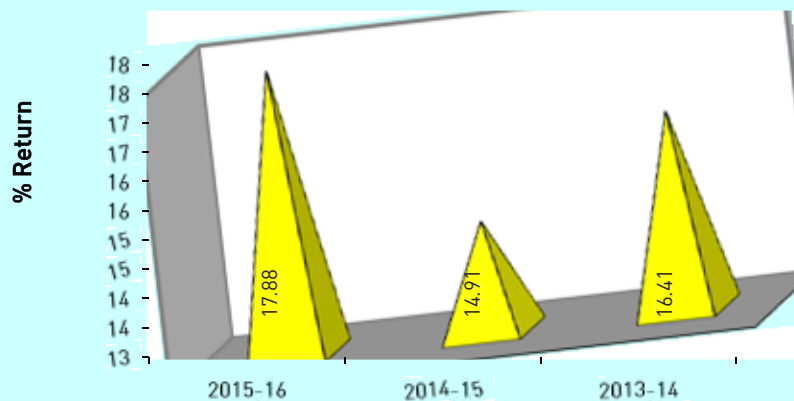
Year

Capital Employed ₹ in crore



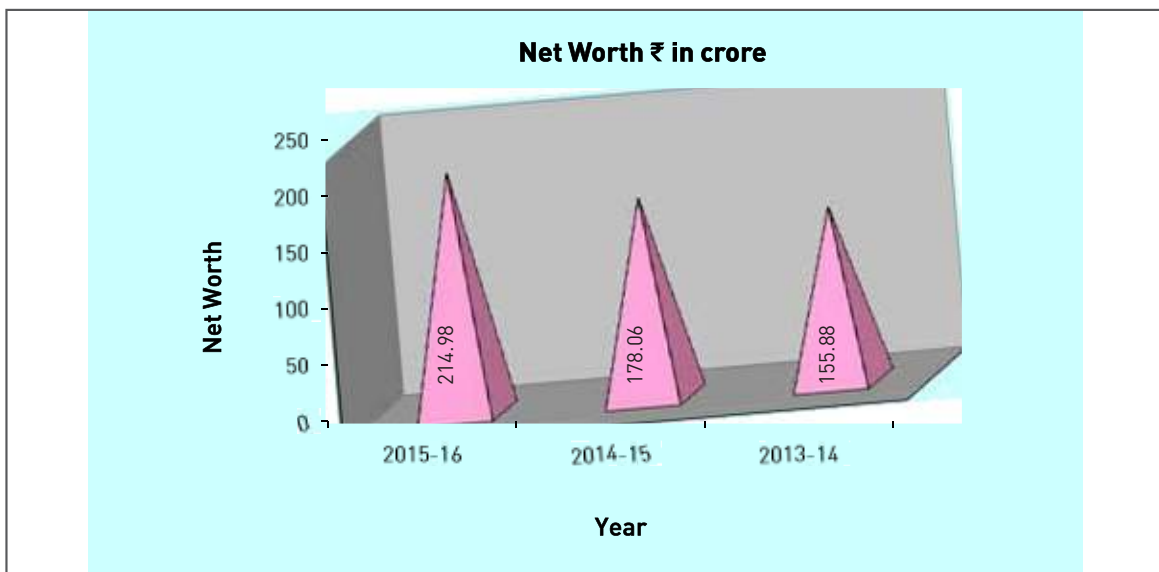
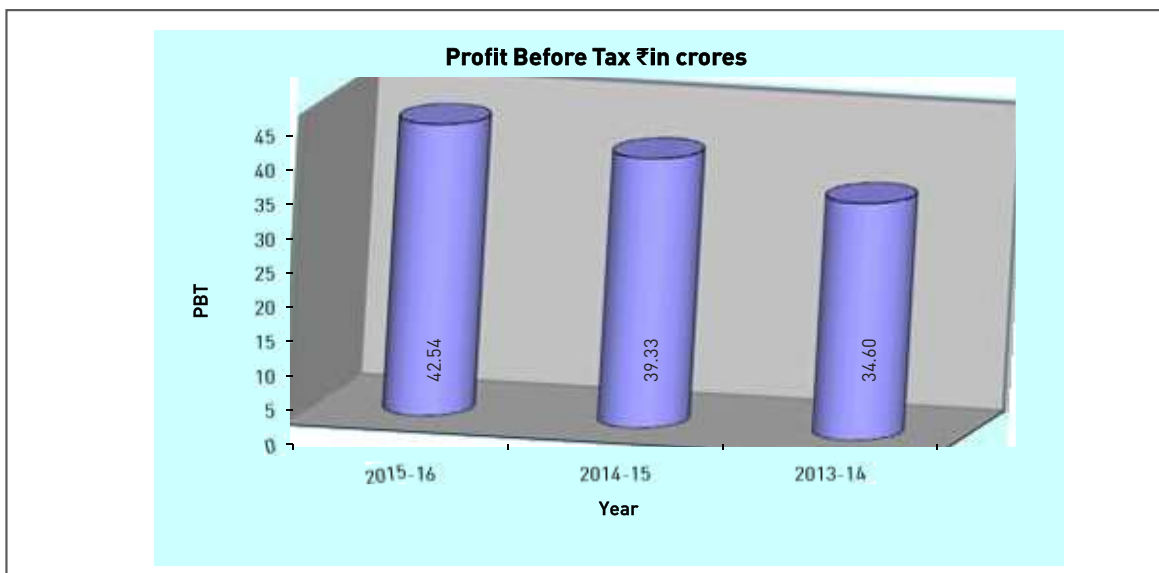
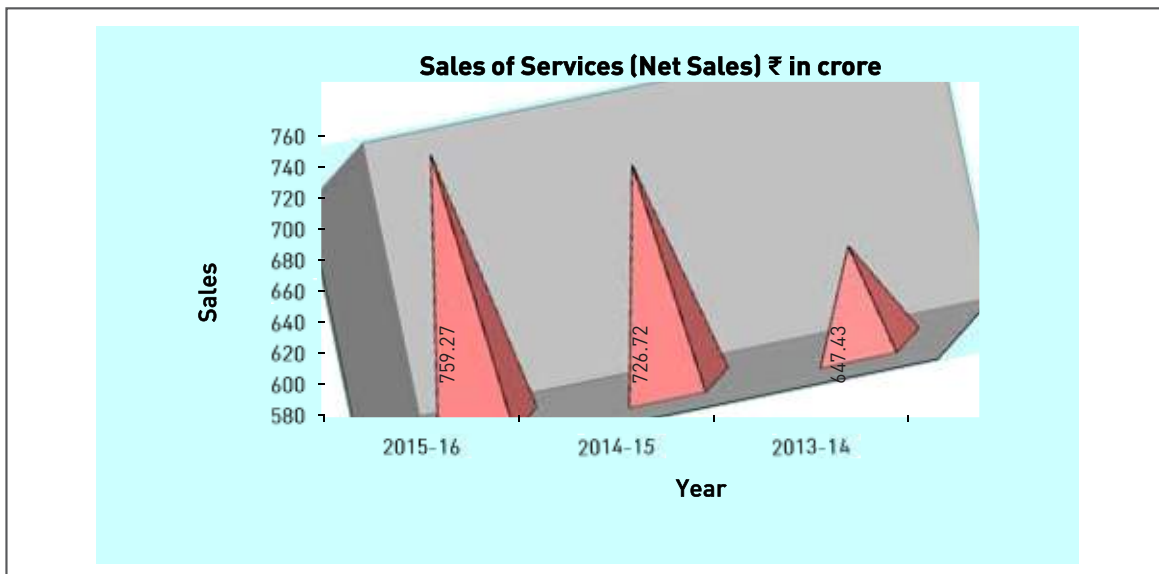
Year

Return on Capital Employed ₹ in crore



Year

FINANCIAL OVERVIEW OF CMPDIL



DIRECTORS' REPORT

To

The Shareholders

Gentlemen,

On behalf of the Board of Directors, I have great pleasure in presenting the 41st Annual Report on the working of your Company along with the Accounts for the year ended 31st March, 2016 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-II) 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 Directorate General of Hydrocarbons, Manganese Ore (India) Ltd., National Thermal Power Corporation Ltd., National Aluminium Company Limited, Steel Authority of India Ltd., Neyveli Lignite Corporation Ltd., Damodar Valley Corporation, Chattishgarh Mineral Development Corporation, Mahan Coal limited, Karnataka Power Corporation Limited etc. were provided mainly through CMPDIL Headquarter. Besides these Consultancy services, CMPDI also handled specialized assignments of Ministry of Coal.

Presently, 26 outside-CIL consultancy jobs are in hand for 16 organizations like Steel Authority of India Limited, MOIL Limited, Tata Steel, Odisha Industrial Infrastructure Development Corporation (IDCO), National Thermal Power Corporation, Odisha Mining Corporation Limited, Odisha Power Generation Corporation Limited, Baitarani West Coal Company Limited, Neyveli Lignite Corporation Limited, National Mineral Development Corporation, etc.

During the year 2015-16, 33 outside consultancy jobs worth Rs. 39.37 crores from 28 organizations were procured by CMPDI. This is the highest ever value of jobs obtained in a year by CMPDI.

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. CMPDI, 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, coal core sample, Non-Destructive Testing (NDT), air, water, washability characteristics of coal, physico-mechanical strength of strata, petrography etc.

● Environmental Services

Preparation of Environment Management Plan, its implementation and monitoring through Regional Institutes and Headquarters and analysis of air, water, noise samples at in-house CPCB approved laboratories. Utilisation of remote sensing satellite data for land use monitoring has also started for entire CIL mines.

● 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 net profit of ₹28.48 Crores (after deferred tax). The working results of the company are given below:

(₹ in Crore)

Particulars	Year ending 31.03.2016 (Rs in crore)	Year ending 31.03.2015 (Rs in crore)
Sales	759.27	726.72
Less: Total Net Expenditure	721.51	687.38
Profit before P.P. Adjustment & Tax	37.76	39.34
Less: Prior Period Adjustment	(-) 4.78	0.01
[Debit (+) / Credit (-)]		
Profit before Taxation	42.54	39.33
Provision for Income Tax:		
Less: For current period	8.10	19.13
Add: For Deferred Tax	5.96	(-)4.84
Less: For earlier years	0.00	0.00
Net Profit after Tax	28.48	25.04

1.3 MANAGEMENT DISCUSSION AND ANALYSIS REPORT

The Management of Central Mine Planning & Design Institute Ltd. (CMPDI) presents its discussion and analysis report covering the different matters of importance including performance and outlook of the Company.

1.3.1 Vision of CMPDI:

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

1.3.2 Mission of CMPDI:

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.

1.3.3 Set Corporate Objectives to realize the above:

Major objectives of CMPDI are as follows:

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

1.3.4 Brief of functions of CMPDI:

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

- A. Geological Exploration and support Services - This core function of CMPDI 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 CMPDI 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 and 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 cu.m. (Coal+OB) per annum are being carried out by satellite surveillance on yearly basis where that in respect of less than 5 million m³ (coal+OB) per annum are being carried out since 2011 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 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) and ISO 27001 (Information Security Management System).
- 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, Management System Consultancy, OBR Check Measurement, etc.

1.3.5 Industry Structure and Development

The World economic Outlook, released by

IMF in April, 2016, presented a diminished economic outlook burdened with larger downside risks raising the premium on intensifying and extending sound policies that safeguard near-term growth and boost potential output. As per the report, while the global economy continues to expand modestly, prospects have weakened across a wide range of countries, and downside risks are rising. Growth prospects differ considerably across countries, and many have demonstrated more resilience to shocks given existing buffers and strengthened fundamentals and policy frameworks. As per the report, the current diminished outlook, in general and associated downside possibilities warrant an immediate response. Emerging market economies face volatile capital flows and exchange rate pressures, as well as corporate sector vulnerabilities. The report also spelt out that infrastructure investment is needed across a range of countries.

As per the Indian Economic Survey of 2015-16, the global macroeconomic landscape is currently chartering a rough and uncertain terrain characterized by weak growth of world output. The situation has been exacerbated by; (i) declining prices of a number of commodities, with reduction in crude oil prices being the most visible of them, (ii) turbulent financial markets (more so equity markets), and (iii) volatile exchange rates. These conditions reflect extreme risk-aversion behaviour of global investors, thus putting many, and in particular, commodities exporting economies under considerable stress. Even in these uncertain circumstances, India's growth story has largely remained positive on the strength of domestic absorption, and the country has registered a robust and steady pace of economic growth in 2015-16 as it did in 2014-15. The Survey forecasted the economy to grow between 7.0 to 7.75 per cent in the

2016-17 which could accelerate to 8% in a couple of years. It was stated that after a 7.2% economic growth in 2014-15, the expansion in economy would be 7.6% during 2015-16, the fastest in the world. The survey depicted two favorable factors on the domestic front i.e. increased spending due to wage revision and normal monsoon to boost consumption, whereas, turmoil in global economy worsening the outlook of exports and oil price rise contrary to the expectations, as the downside risks. Also, in spite of acceleration in the growth in manufacturing during 2015-16, the other three segments of the industry sector, i.e. electricity, gas, water supply and related utilities, mining and quarrying and construction activities, were witnessing a deceleration in growth.

Mining in India is a major economic activity which contributes significantly to the economy of India. Under the energy sector, power generation companies account for over 70 percent of the country's use of coal. The Working Group on coal and lignite for XII Plan had projected widening of the gap between demand and indigenous availability to the tune of 273 Mt by 2021-22. The Govt. has an ambitious programme of round the clock power supply across the country in the next 5 years. Moreover, creating infrastructure is another thrust area of the Government, which would have a positive bearing in the demand of cement and the steel industries. Thus, growth in power, cement and steel sectors is likely to bolster growth in the demand of coal. Consequently, congruent to the growth plan of the Government, Coal India Ltd (CIL) has prepared a roadmap to achieve a coal production target of 908 Million Tonnes (Mt) by 2019-20.

For CMPDI, target for detailed drilling for 2016-17 has been enhanced and set at a level of 11.0 lakh meter from the achievement

level of 9.94 lakh meter during 2015-16. The moderately enhanced target with 10 % growth has been fixed by MoC in view of hindrances in drilling due to law & order and lack of forestry permission. Moreover, CMPDI is on schedule with its preparation for various reports necessitated for 908 Mt of coal production by CIL. Nonetheless, 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, CMPDI's expert services had been in demand by other coal producer in public and private sector as well. Stride of coal companies, mainly of CIL, towards meeting the coal demand from indigenous supply will have a spurt in CMPDI's services. CMPDI has also rendered consultancy services in mine planning to MOIL, HCL and Hutti Gold Mine in the metal mining sector.

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, Underground Coal Gasification (UCG), Shale gas, etc., is likely to be the sources of consultancy work for CMPDI. Additionally, emerging area of Information and Communication Technology (ICT) in coal sector is also presenting additional opportunities for CMPDI which will increase further in coming years.

There has been spurt in the demand for consultancy services of CMPDI by MoC also. CMPDI is rendering technical assistance to MoC in captive coal block allocation (auction & allotment). It has prepared mine dossiers for the coal blocks identified by MOC for auction and allotment. CMPDI has also estimated the floor price, reserve price, upfront payment, etc., as applicable for the identified coal blocks.



However, all the endeavors by the company over the years did not get reflected in its top and the bottom lines, appreciably, and thus, necessitating a relook on the business dynamics of CMPDI. 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. Moreover, though the coal fuel is expected to retain its primacy in the country and remain the only realistic option for providing cheap and abundant energy for the local population at least in the next 8 to 10 years' time, some doubts have started being raised over India's reducing appetite for thermal coal and sustenance of the coal demand on a longer time horizon. Drop in the thermal coal import in 2015-16 with the enhancement in production from CIL and SCCL has supported this view. Nevertheless, the Government's commitment to exploit the renewable sources of energy in a big way, pallelly, 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. Clean Energy cess has been doubled in the 2016-17 budget to a level of Rs.400 per tonne of coal from Rs.200 per tonne. In the 2015-16 budget also, the clean energy cess was doubled from Rs.100 to Rs.200 per tonne.

Considering the above and to infuse dynamism in business domain of CMPDI, it will be realistic to ensure enhancement in the exploration capacity though further productivity improvement and particularly through use of 2D Seismic & other geo-physical methods, upgradation and modernisation of existing facilities and infrastructure wherever required, rationalising 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 computerisation and networking, establishing technology for development of alternative sources of coal based energy, etc. Allied with this, the Pricing Mechanism of the company also requires a thorough relook to incentivize for the initiatives taken by the company for rendering services to other than CIL clients which is already being carried out with the help of ICWA.

1.3.6 Strategy adopted to realize above objectives and vision:

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

- i. Enhancing exploration capacity with addition of skilled manpower, equipment, plant & machinery, 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 alternate source of energy and Shale Gas.

1.3.7 Strength and Weakness

Strength

- CMPDI 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.
- With strategically located RIs, it is able to provide door-step service to CIL subsidiaries.
- It has coalfield-wise/mine-wise strong data base of CIL subsidiaries.
- It has a base of more than 1300 multi-disciplinary skilled 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, 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

- Shortage of skilled and qualified personnel in executive and non-executive cadre.
- High rate of Attrition (New Recruits are leaving the organization after being trained).

1.3.8 Opportunities and Threats

Opportunities

- The demand for coal is likely to continue atleast upto 8 to 10 years providing scope for CMPDI services
- Need to enhance the application of IT in coal sector.
- Diversification in non-coal sector
- Expertise in providing specialized services related to CBM / CMM / UCG / Shale Gas, Geomatics, NDT, etc.

Threats

- In absence of commensurate growth in the regional exploration, sustenance of the present detailed drilling capacity beyond XII plan seems difficult.
- Undue delay in obtaining forestry clearances for drilling operation with required number of borehole density.
- Restrictions in exploration in forest area may pose problem in expansion programme.
- Poor law and order conditions in different states pose hindrance to exploration works.
- Further opening of the coal sector may result in market competition from other domestic or international consultancy service providers.
- Current high age profile in the company is likely to prove detrimental in future.
- Some doubts have started being raised over India's reducing appetite for thermal coal and sustenance of the coal demand over a longer time horizon in future.

1.3.9 Pricing

Pricing of consultancy services for exploration, mine planning/ project reports,



environmental plans and other Engineering services is based on the category of customers. The services rendered to CIL and its subsidiaries are priced at cost plus service charges of 10% for P&D service and 7.5% for Departmental drilling services. However, to enhance the top and bottom lines of the company and other business dynamics, the Pricing Policy is under review.

1.3.10 Marketing Policy

CMPDI 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, CMPDI 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.

1.3.11 Outlook and Preparedness

CMPDI's exploration activities had major spurt during the XI Plan period as well as in the 1st three years of the XII Plan. Through departmental drills and outsourcing, CMPDI carried out 30.82 lakh meter of drilling during the 1st four years of XII Plan period (2012-16) 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). Also, during the period of 2007-08 to 2015-16, the CAGR is over 19% over the achievement of 2.07 lakh meter during 2006-07. 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 CMPDI.

The target for 2016-17 has been raised to

11 lakh meter by the Ministry of Coal which has necessitated emphasis on outsourcing of substantial number of coal blocks for drilling. CMPDI 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. The annual limit has further been enhanced to 4.00 lakh meter in 2015-16. Six rounds of National / Global tendering & nine rounds of e-tendering has been done since 2007-08 (till 2015-16) and work orders had been placed for 65 blocks involving 24.44 lakh meters. 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 and concerned states by CMPDI, CIL and MOC.

A total of 129 projects were identified for XII Plan resulting in capacity addition of about 495 Mty, against which, project reports for 103 projects, with capacity addition of about 430 Mty have already been formulated. Additionally, 56 Project Reports with capacity addition of about 147 Mty have been formulated till 31st March, 2016 during XII Plan period. During the year under review, 26 Project Reports have been prepared with capacity addition of about 96 Mty. Also, Project Report for Gevra OC Expansion (70.0 Mty), the highest capacity mine of the country, was planned during the year which was approved in March, 2016 by the CIL Board. Nonetheless, in respect of CIL's programme of 908 mt coal production by 2019-20, CMPDI is as per schedule for preparation of various reports.

Capacities of most of the laboratories in CMPDI have been upgraded. Further upgradation of RI-I and RI-VII environment labs is underway. Surveillance assessment of Environment Laboratory of CMPDI HQ, RI-IV and RI-V by National Accreditation Board

for Testing & Calibration of Laboratories (NABL) was done. Audit for OHSAS 18001 Management System for Environmental Labs at RI-IV, Nagpur and RI-V, Bilaspur was carried out by the Certification body and provisional certificates were issued.

Considering the future requirement of environmental services and possibility of more stringent stipulations from MOEF, environmental services rendered by CMPDI would be required on a continual basis. Further, re-accreditation of CMPDI as Environmental Impact Assessment/ Environmental Management Plan (EIA/EMP) consulting organization by Quality Council of India (QCI), New Delhi was done during the year.

Manpower requirement of Exploration, Planning and Design as well as allied engineering services have been addressed. During 2015-16, 48 nos. of Management Trainees have been posted in CMPDI through recruitment and transfer. Similarly, 193 nos. of non-executive manpower have been added by transfer from other subsidiaries and process of addition of manpower is going on.

Since 2008, Satellite surveillance for land reclamation monitoring of all the opencast coal mines of CIL having production more than 5 million m³ (coal+OB) per annum was started annually. Further to this, land reclamation monitoring of the opencast coal mines of CIL having production less than 5 million m³ (coal+OB) per annum was also taken up from the year 2011 at the interval of three years. CMPDI is also taking up other services like mine Fire mapping, Vegetation cover mapping, etc. and is capable of providing additional services in the field of geomatics.

Technical assistance was provided to the subsidiary companies of CIL in setting up of 15 nos. of new coal washeries. e-tendering

mode was opted to expedite the tendering process and identification of L1 bidder in record time. Out of these 15 nos. washeries, tender document on e-tender mode have been successfully floated for 6 nos. washeries. Active support will be provided by CMPDI for planning and designing of additional washeries in future.

CMPDI 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. CMPDI is pursuing envisaged activities on behalf of CIL for Coal Bed Methane (CBM) development in two blocks, namely Jharia and Raniganj North, allotted to the consortium of ONGC-CIL and extending support to CIL in taking up administrative and other issues viz. Contractual, Operational, etc. To expedite commercial development of Coal Mine methane (CMM) within CIL areas, MoP&NG has granted right to exploration and exploitation of CBM to CIL and its subsidiaries on nomination basis from coal bearing areas for which they possess mining lease for coal. To expand the scope of development of CMM in CIL areas, further studies for "Assessment of CMM Potentiality in CIL Command Area" has been undertaken.

CMPDI is carrying out studies related to "Assessment of Coalbed Methane Gas-in-Place Resource of Indian Coalfields/Lignite fields" through boreholes being drilled under promotional exploration. Assessment reports on CBM Gas-in-Place for three (3) blocks (Subhadra West block, Dolesra block, & Brahmanbill block) have been submitted. A project for mitigation and utilisation of VAM with CSIRO, Australia, to be taken up under NCEF and CIL R&D funding, is under finalisation. The project will be taken upon competent approval of the Government.



Inter-Ministerial Committee (IMC) has been constituted by MoC for identification of areas for Underground Coal Gasification (UCG) on the lines broadly similar to the existing policy of CBM development. The second IMC meeting was held on 21st March, 2016 where potential blocks in coal and lignite were identified for the commercial development of UCG by PSUs.

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. Designed tools developed specifically for Indian geo-mining condition are now available for variety of problems like underground coal pillars design, analysis of roof cavability, prediction of surface subsidence, optimum blast design for various rock conditions, opencast slope stability, etc. During 2015 -16, 6 nos. of S&T and R&D projects were completed. Moreover, CMPDI is making efforts to involve more and more research and academic institutions. As a result, 29 S&T and R&D projects are under execution in association with various organizations. Parallely, CIL is also envisaging on making the R&D activities more effective.

CMPDI provides consultancy services for all Management System standards applicable to the coal industry by facilitating the creation and documentation of management systems, providing training and auditing support, implementation, certification support and post certification support, etc.

Being an ISO 9001 certified company, CMPDI was also able to achieve the certification for

ISO 27001 for successfully implementing an Information Security Management System in September 2014 in its HQ. This certification was further extended to cover three of its Regional Institutes during 2015-16. CMPDI is providing consultancy services to CIL's subsidiaries in respect of various certifications. It started the consultancy work for the implementation of ISO 9001(QMS) & ISO 50001 (EnMS) for CIL HQ at Kolkata. Documentation and initial energy review were completed during 2015-16. CMPDI also provided support to the Ministry of Coal, Govt. of India during the surveillance audits for ISO 9001 by the Bureau of Indian Standards

During the year 2015-16, 18 consultancy jobs were completed for 13 organisations outside CIL. Some of the major clients / organizations to whom jobs were provided / completed are Tata Steel, MOIL Ltd., NMDC, Punjab State Power Corporation Ltd. Presently, 19 outside consultancy jobs are in hand for 15 organisations like SAIL, MOIL, Tata Steel, IDCO, NTPC, Odisha Coal and Power Ltd., Gujarat State Electricity Corporation Ltd., MP Power Generating Co. Ltd., UCIL, NMDC, etc. During the year 2015-16, 33 outside consultancy jobs worth Rs. 39.37 crore from 28 organizations were procured by CMPDI. This is the highest ever value of jobs obtained in a year by CMPDI. Moreover, CMPDI is making a strategy in respect of maximizing the revenue from outside consultancy services.

Information and Communication Technology services is one of the prominent area where CMPDI is rendering services to CIL and its subsidiaries. During the year 2015-16, online modules on Transfer request for Executives, Mentor-mentee, K-mining (Knowledge mining) and Employee suggestion were developed under Human Resources Information System for CIL. Also, online bank card rate system for CIL was developed. This

online system facilitates banks to upload their quoted interest rate for deposits for the scrutiny of CIL. Further, Vigilance clearance / monitoring system was also developed for CIL. Annual Property Return system was also extended to non-executives under Lokpal and Lokayukta Act. CMPDI is planning to enhance its capacity of rendering services in this field by deploying more officials and imparting professional training to them even through engaging outside experts.

To make the office paper-less and the process faster, file tracking and dispatch through digital platform 'e-Office', developed by NIC, has become functional at CMPDI on pilot basis for bringing in transparency from 6th November'15.

Moreover, in view of necessity of enhancing the top and the bottom lines of the company, a committee has been constituted to look into the matter thoroughly and suggest for measures. ICWA has also been engaged for a relook on the Pricing Policy of CMPDI to address the issues of business dynamics.

1.3.12 MOU between CMPDI & CIL

For every financial year CMPDIL enters into a MoU with Coal India Limited to set various parameter for physical and financial performances. The achievements are graded on a scale of 1-5; excellent being the grade 1.0 to 1.5 and poor as 4.51 to 5.0. For the year 2014-2015, CMPDIL has been graded as Excellent (1.002). The rating provided is the third best amongst all CPSEs and best in its syndicate.

1.3.13 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 beyond XII plan seems difficult. Further, restrictions in exploration in forest area may pose problem in expansion programme.
- Further opening of the coal sector may result in market competition from other domestic or international consultancy service providers.
- The current high age profile in the company is likely to prove detrimental in future.
- 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 CMPDI.

1.3.14 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 experienced personnel's.

- 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.

1.3.15 Material Development in Human Resources

CMPDIL as 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 level 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.

1.3.16 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 fiscal 2015-16 is Rs. 759.27crores as against Rs. 726.72 crores in the previous year, thus registering an increase of 4.48 %

The total expenditure is Rs.721.51 crores [excluding the prior period adjustment of Rs. (-)4.78 crores] mainly comprising employee benefits, power and fuel, welfare expenses, contractual expenses, repairs, finance costs, depreciation and provisions etc.

Income tax expense comprises current tax

expense and deferred tax expense or credit computed in accordance with the relevant provisions of the I.T Act, as amended. Provision for current taxes is recognized based on the estimated tax liability for allowances and exemptions in accordance with the I.T Act. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to timing differences. They are measured using tax rates and tax regulations enacted upto the balance sheet date ,The effect due to change in the tax rates is recognized in the financial statement of the relevant fiscal year of change of rate. Deferred tax assets in respect of carry forward losses are recognized to the extent that there is virtual certainty that sufficient future taxable income will be available against which such deferred tax asset can be realized.

The profit before tax is Rs. 42.54 crores as against Rs. 39.33 crores for the previous year, increased by Rs. 3.21 crores. The profit after tax is Rs. 28.48 crores as against Rs. 25.04crores for the previous year, increased by Rs. 3.44crores.

1.4.0 Financial Overview of CMPDIL

During the year the company made a net profit of Rs 28.48 Crore (After deferred Tax). The summary of the working results for the last three years is as follows:

Eligibility Criteria		Status of CMPDIL		
		2013-14	2014-15	2015-16
1.	Profit before Taxes (Rs. in Crore)	34.60	39.33	42.54
2.	Profit after Taxes (Rs. in Crore)	19.57	25.04	28.48
3.	Net worth (Rs. in Crore)	155.88	178.06	214.98
4.	Net profit to net worth (%)	12.55	14.06	13.25
5.	Turnover (Rs. in Crore)	652.44	726.72	759.27
6.	Profit before tax to Turnover (%)	5.30	5.42	5.60

1.4.1 Explanation or Comments on Statutory Auditor's Report and Secretarial Audit Report

Nil Comment received from Statutory Auditor. Comments of Secretarial Auditor is enclosed as Addendum 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 Rs. 19.04 crores against the authorized capital of Rs. 50 crores. The capital Reserve stands at Rs 18.17 crores, general reserve stands at Rs. 5.77 crores and the surplus in P/L account stands at Rs 172.00 crores and totally constituting to the shareholders fund Rs. 195.94 crores. Non-current liability Rs.195.92 crores and current liabilities Rs. 550.27 crores.

The company owns net fixed assets of Rs 161.43 Crores, Deferred tax assets 100.47 crores, Long term loans and advances 11.02 crores, other non –current assets 0.02 crores and current assets 688.23 crores.

The total revenue from operations and other incomes stands at Rs 764.35 crores and after meeting all expenditure and taxes, the net

profit stands at Rs 28.48 crores. The earning per share (face value Rs 1000 per share) works out Rs 1496.

1.4.4 The amounts if any which it proposes to carry to any reserves

No amount is proposed to carry to any reserves.

1.4.5 The amount, if any, which it recommends should be paid by way of dividend

No amount was recommended to be paid by way of dividend to shareholders of the company.

The Companies operations and provision of services are based on cost plus service charges, as in house service provider to Coal India and its subsidiaries. As a policy matter, Coal India Limited i.e. the shareholders have not demanded dividend from the company.

1.4.6 Material changes after 31.03.2016

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.

1.5.0 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 objective of corporate governance is to enhance and maximize shareholder's value and protect the interest of other stakeholders like customers, employees and society at large in order to build an environment of trust and confidence among all the constituents.



1.5.1 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

1.5.2 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 or 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 2016, 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. Only three independent Directors are on the Board of the company. The remaining two independent Director is yet to be appointed by the Ministry of Coal, Govt of India.

The composition of Directors as on 31st March, 2016 is as follows:

I. Whole-Time Directors

a. Chairman-cum-Managing Director

1. Shri Shekhar Saran

b. Functional Directors

2. Shri V.K. Sinha
3. Shri B.N. Shukla
4. Shri Binay Dayal

II. Part-Time Official Directors

1. Shri Nagendra Kumar
2. Shri Devulapalli Narasimha Prasad

III. Part-Time Non-Official Directors

1. Shri Rakesh Kumar Mittal
2. Shri Rajender Parshad
3. Dr. Debasish Gupta

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. Eight Board meetings were held during the financial year 2015-16.

Sl. No.	Dates	Day	Place
1.	22.05.2015	Friday	CMPDIL, Ranchi
2.	30.07.2015	Thursday	New Delhi
3.	11.09.2015	Friday	CMPDIL, Ranchi
4.	29.10.2015	Thursday	New Delhi
5.	18.11.2015	Wednesday	New Delhi
6.	30.12.2015	Wednesday	CMPDIL Ranchi
7.	02.02.2016	Tuesday	CMPDIL Ranchi
8.	18.03.2016	Friday	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 Amal Kumar Debnath	6	6	Yes
2.	Shri D.K. Ghosh	5	5	Yes
3.	Shri R.K.Chopra	3	3	Yes
4.	Shri Shekhar Saran	8	6	Yes
5.	Shri V.K Sinha	8	8	Yes
6.	Shri B.N. Shukla	5	5	N.A
7.	Shri Binay Dayal	3	3	N.A
Part-time official Directors				
8.	Shri D. N. Prasad	8	4	No
9.	Shri Nagendra Kumar	8	6	Yes
Part-time Non-official Directors				
10.	Shri Rakesh Kumar Mittal	8	8	Yes
11.	Shri Rajender Parshad	3	3	N.A
12.	Dr. Debasish Gupta	3	3	N.A

Shri D.N. Prasad, Shri Rajender Parshad, Dr. Debasish Gupta, Shri V.K Sinha and Shri N. Kumar are members of the Audit committee of CMPDIL. Shri R.K. Mittal is the Chairman of the Audit Committee of CMPDIL.

D. (ii) Disclosure of interest

Sl. No.	Directors	Company in which interested	Nature of Interest i.e Chairman, Director, Manager & Secretary
Functional Directors			
1.	Shri Shekhar Saran	-	-
2.	Shri V.K Sinha	-	-
3.	Shri B.N. Shukla	Coal India Africana Limitada	Director
4.	Shri Binay Dayal	-	-
Part-time official Directors			
5.	Shri D. N. Prasad	Singareni Collieries Company Limited	Govt . Nominee Director
6.	Shri Nagendra Kumar	1.Coal India Africana Limitada 2.Coal India Limited 3.Bharat Coking Coal Ltd. 4. Rashtriya Coal Gas Fertilizers Ltd. (Joint venture between RCF, CIL, GAIL & FCIL).	Chairman Director Chairman (Additional charge) Shareholder



E. 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 and sustainable Development Committee.

Award of large contracts / Agreements

Disclosure of interest by Directors about Directorship and position occupied by them in other companies.

Manpower Budget.

Any Other materially important information.

F. Brief Profile of the Directors:

Shri Shekhar Saran (55), is 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. 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 is Chairman-cum-Managing Director, CMPDI w.e.f. 1.01.2016.

Shri Vinod Kumar Sinha (58), Director (Technical/ Research, Development & Technology), CMPDI, is a graduate in Mining Engineer (1978) from Indian School of Mines, Dhanbad. He has also obtained First Class Mine Manager's Certificate of Competency from DGMS, Dhanbad.

He joined Central Coalfields Limited as a JET in the year 1978 and worked in different capacities till 2001. He then joined Bharat Coking Coal Limited as Project Officer / Agent and worked as additional General Manager in Kusunda Area. During 2006-2008, he served as a General Manager of Western Jharia Area, Mahuda and then from 2008-09 as General Manager of Eastern Jharia Area Sudamdih in BCCL.

He was instrumental in getting the ML4 powered supports re-commissioned at Moonidi and handled challenging assignment of Land Acquisition for expansion of Mines. He has also to his credit the introduction of Side Discharge Loader SDL in Murlidih 20/21 pit. During the period of his service as Chief General Manager (Sales & Marketing) in BCCL, under the new coal distribution policy he has made several contributions in revamping and regularisation of coal offer and allotment, Fuel Supply Agreement (FSA), corrective steps in end use of coal and refund mechanism in case of non core sector consumers and thereby enhancing the values to the stakeholder including the consumers. He has also travelled countries like China, Turkey & Switzerland in relation to his professional work.

Prior to joining CMPDI, he was working as CGM (Contract Management Cell), BCCL and rendered valuable services by timely finalisation of various contracts. He has also visited foreign countries like Germany and France.

He is Director (Technical), (Research Development & Technology), CMPDI w.e.f. 8.01.2014.

Shri B. N. Shukla (55), graduated in 1982 from I.T. BHU and did M. Tech in Opencast Mining from Indian School of Mines, Dhanbad in 1989. He is silver medalist at B. Tech and M. Tech level and was popular student leader.

He joined SECL in 1982, where he was instrumental in deploying SDL and Chain Conveyor for depillaring in 1983. He experimented cast blasting in Jamuna Opencast mines and brought back Amalai opencast mines into production which was stopped by DGMS for last six months due to vertical faces merged with OB benches. He joined Churcha east underground mine in 1999, where he experimented Hydrofracturing for hard roof management and constructed strata bunkers which reduced the breakdowns of belt conveyors and saving of power.

He joined as Sub-area Manager of Behraband U/G mine having modified continuous miner with LHD and the mine was adjudged the overall best mine in group 'A' of SECL alongwith 36% growth in production. He was posted as Project Officer, Balram OCP to sort out the R&R problem and poor geometry. The mine bagged 1st prize in overall annual safety week for successive two years. He was posted as General Manager, Bharatpur area in 2007, where he could sort out R&R problem and brought the mine into desired shape with sufficient land possession in hand. Then he was posted in most difficult area of MCL, i.e. Hingula area where the daily production was 21000 tpd, when he left the area, the daily production was 62000 tpd.

Considering his vision, knowledge, strategy he was posted as General Manager, Corporate Planning and Projects at MCL HQ, where he was instrumental in diversification



of MCL into pit head Super critical thermal power projects (2 x 800 MW) for which MBPL company was formed and he has appointed Director w.e.f. 9.04.2012, other diversification were into solar, port and power transmission business.

He was key person in translating Jharsuguda Barapalli rail link on paper to ground fighting tooth and nail to complete it by 2016 June, which is life line for growth of MCL. He got projects approved with total capacity of 322 MT (peak) from a level of 122 MT. He planned and monitored various infrastructural activities like road network, rail network, CHP, silo and was actively involved in meetings with MoC, state Govt. to sort out forest, R&R and law & order problems.

He visited China and presented many technical papers in seminars. He was very good sportsman and was captain of IT Boating club, BHU. He performed journey on cycle from BHU to Kathmandu, Nepal in 1981.

He is Director (Technical), (Coal Resource Development), CMPDI w.e.f. 1.10.2015.

Shri Binay Dayal (54), is Director Technical (Engineering Services) of CMPDI. 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 CMPDI (HQ), Regional Director, CMPDI, Regional Institute – V, Bilaspur, General Manager (Projects & Planning Services) in South Eastern Coalfields Limited. He took over the charge

of Director Technical (Engineering Services), CMPDI on 1.12.2015.

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. Chattisgarh East Railway Limited and Chattisgarh East-West Railway Limited (comprising of SECL, IRCON and Chattisgarh 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 CMPDI 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 is Director (Technical), (Planning & Design), CMPDI w.e.f. 1.12.2015.

Shri Nagendra Kumar (58), has graduated in Mining Engineering (B.Tech – Mining) from Indian School of Mines, Dhanbad in the year 1980. He joined CCL as junior Executive Trainee in 1980. In his first 20 years in CCL, he has worked for almost 6 years as Manager and 7 years as Project Officer. He was transferred to ECL in 2001 in the same capacity and assumed the charge of General Manager in 2004 and Chief General Manager in 2007. He has spent most of his career in reviving difficult underground and opencast mines and has the experience of working with almost all kind of mechanization in underground and opencast. He was actively associated with indigenization of Long Wall Equipment and has presented a number of papers on its successful implementation. His latest achievement is the successful operation of Continuous Miner in Jhanjra Area matching World Standards in production and safety. Shri Kumar is a member of MGMI, IMMA and Institution of Engineers. He has travelled foreign countries like South Africa and China, France, Italy and Germany. Shri Kumar is fond of cricket, books, old melody songs and Rabindra Sangeet too. He assumed the charge of Director (Technical) of Coal India Limited on 01.02.2012 and since then his functioning as Director (Technical) of Coal India Limited. In addition, he is holding Chairmanship of Coal India Africana Limitada and he is also holding Directorship in CIL and CMPDI. Besides, he is also holding the additional charge of CMD of BCCL.

He is Official Part-Time Director in CMPDI w.e.f. 29.02.2012

Shri D.N. Prasad (59), a Graduate Mining Engineer from the University College of Engineering, Osmania University with University First rank, holder of First Class

Mine Manager's Certificate of Competency to manage coal mines and MBA from UK, has put in about 32 years of overall experience in the Coal and Energy sectors of India. His experience includes eleven years of operation and management of coal mines in the Public Sector Coal Companies, Coal India Ltd. & Singareni Collieries Co. Ltd. and about 21 years in Development Policy Planning for Energy fuels Coal & Lignite in the Energy Division of the Planning Commission and Ministry of Coal, Government of India. He is presently continuing as Director (Technical) in the Ministry of Coal, Govt. of India. His experience encompass development of coal mining projects; techno-economic appraisals of coal mining projects for investment decisions; capital budgeting; exploration for coal and lignite, CBM, CMM etc.; appraisal of environmental impact assessment; issues related to climate change; development of perspective plans for coal & lignite; development of clean coal technologies including coal washing, coal gasification, UCG, CTL; development of infrastructure for coal evacuation etc. He represented Planning Commission & Ministry of Coal on various Committees related to coal development and visited a number of countries including Australia, Japan, Germany, UK, USA, Belgium, France, China, Turkey, Switzerland etc. in relation to professional work. He has contributed a number of papers on policy and issues in coal sector in various National & International Forums. He is a Member of professional bodies like Institution of Engineers (India), Mines, Metals & Geological Institute of India (MMGI) etc. He is also holding Directorship in Singareni Collieries Co. Ltd.

He is Official Part-Time Director in CMPDI w.e.f. 27.01.2010

Shri Rakesh K. Mittal (66), was born in August 1949 on 'Raksha-Bandhan' day in a



small town Purkazi of District Muzaffarnagar in U.P. He had his early education in his home town and the district headquarter before acquiring Bachelor's degree in Mechanical Engineering from the University of Roorkee (now an IIT) in the year 1970. He topped the University from entrance examination to the final examination. He also took keen interest in various games and extracurricular activities. As a result he was awarded the Chancellor's Gold Medal for the best student in all faculties during the session 1969-70 along with many other awards.

After working in the field of Engineering for few years, Mr Mittal joined the Indian Administrative Service (IAS) in the year 1975 and got U.P. cadre. He served in various positions during his long career in the service and reached up to the highest level of the service. Some of his notable assignments were District Magistrate Basti, Addl. Director of Industries U.P., Managing Director U.P. Handloom Corporation, Managing Director U.P. Export Corporation, Director of Handloom & Textile U.P., Secretary Panchayati Raj, Secretary Medical Education, Housing Commissioner U.P., Secretary Horticulture and Food Processing, Principal Secretary Secretariat Administration, Principal Secretary Medical and Health, Principal Secretary Forest, Principal Secretary Prisons, Commissioner of Lucknow Division, Principal Secretary Education, Social Welfare Commissioner and Agricultural Production Commissioner. Mr Mittal also served in Central Government on deputation in the Ministry of Steel for 5 years. In all his assignments, Mr. Mittal served with great dedication and earned good name for his competence as well as integrity. Mr Mittal retired from the IAS on 31st July, 2009.

Mr. Mittal became a spiritual seeker in the early years of his service which brought him in contact with many good books, persons and

organizations. In 1991 he came in contract with Swami Bhoomananda Tirtha of Kerala and became his disciple. As a result his vision expanded a lot and his thinking became very clear. In due course he associated himself with many good organisations like Bhartiya Vidya Bhawan, Servants of the People Society, Brahma Kumaris World Spiritual University, Shanti-Kunj, The Art of Living Foundation, Bharat Vikas Parishad, Chinmaya Mission etc. Being of a very secular outlook he is close to many organizations of other religions also. He is a widely travelled person and has extensively travelled within India as well as has been to almost all important countries of the world. He also participated in **"World Peace Summit"** organized by UNO in August 2000 at New York as a member of Indian delegation.

Greatly Inspired by the lives of Sant Kabir, Swami Vivekananda and Mahatma Gandhi Mr Mittal founded **'Kabir Peace Mission'** in the year 1990, with the help of some likeminded friends. Today this mission has expanded widely with more than 2200 life members spread over 35 centers in India and abroad. The main objective of the mission is to develop positive thinking in the society in order to make it peaceful and harmonious. To share his experiences with others, Mr. Mittal has written about 16 books in English and Hindi on various aspects of life. Some of the titles are 'Positive Thoughts' 'Positive Mind Power', 'Positive Mind Therapy', '21 Laws of Positive Living', 'Think Positive and Things will go right', 'The Power of Positive Management', 'The Power of Positive Words', 'The Power of Positive Anecdotes' and 'Nuggets of wisdom'. Most of these books have been written in Hindi also. Some of his books have been translated in other languages Indian as well as foreign.

Shri Mittal has been honoured by various

organisations like 'The Art of Living Foundation', 'Bharat Vikas Parishad', 'Bharat Jyoti' and many others. He was conferred the honour of 'Uttar Pradesh Ratna' by All India Conference of Intellectuals' in October 2002 by then Governor of U.P. Shri Vishnu Kant Shastri. After retirement from the IAS, Mr Mittal in engaged in many welfare activities mainly through 'Kabir Peace Mission'. He is on the board of several educational and social institutions. His passion is to inspire others through his lectures, books and discussions. Fortunately he gets ample opportunities for doing so and he accepts them with great simplicity as well as humility. He is also trying to create a network of good persons and organisations for achieving the goal of a happy and peaceful society. Mr. Mittal has been the President of Lucknow Management Association (LMA; in the years 2012 and 2013. LMA is one of the top management associations affiliated with All India Management Association (AIMA).

He has been appointed as non-official part time Director on the Board of CMPDIL on 01.11.2013.

Shri Rajender Parshad (66), graduated from Hindu College Sonipat in 1971. After doing LL.B from University of Delhi in year 1974 started his career as an Advocate in August 1975. He practiced in Civil, Criminal, MACT, Revenue and Labor laws & rendered his services to trade and labor unions of various industrial organizations at district and state level such as B.S.T. Ganour, Rang Udhog. He vehemently advocated for poor, depressed & down trodden of the society by making representation for their rights and entitlements before the administration and also provided legal assistance before appropriate legal forums.

In the year 1981, he was selected in Haryana Judicial Service and joined as Sub Judge

Cum Judicial Magistrate. In Feb.1998 he was promoted to Haryana Higher Judicial Service and remained posted as Additional District & Sessions Judge till 06.03.2009 after his retirement from the Judicial-Service. He was appointed as President, District Consumer Disputes Redressal Forum Kurukshetra. He remained as such till 05.03.2014. He also officiated as President Distt. Consumer Disputes Redressal Forum, Karnal for some time.

He served the judicial department for more than 35 years by delivering justice, honestly and impartially. During his judicial-career, he had the privilege to serve in various districts throughout Haryana. During his service tenure he got several appreciation letters from Hon'ble Punjab & Haryana High Court. He has also obtained certificates by attending courses in Criminology and forensic Science (1994), Human Rights in Criminal Justice System (2003 and 2006) organized by National Institute of Criminology and Forensic Science, Ministry of Home Affairs, Government of India.

As president of District Consumer Dispute Redressal Forum, he was awarded distinguished/outstanding services certificate by the State Consumer Disputes Redressal Commission, Haryana, Panchkula in 2011. Again in 2013, he was awarded distinguished services certificate on the eve of Silver Jubilee Celebration of enforcement of Consumer Protection Act. 1986 held on 09-01-2013 at Panchkula by the then Hon'ble Chief Justice A. K. Sikri of Punjab and Haryana High Court. In 2015, he was appointed by Hemwati Nandan Bahuguna Garwal University, Srinagar Garhwal (Uttarakhand) to conduct a judicial inquiry on student election 2015.

He has been appointed as non-official part time Director on the Board of CMPDIL on 17.11.2015.



Dr. Debasish Gupta (63), after completing Ph.D in Chemistry, from Calcutta University, he Joined Indian Administrative Service in 1978. He was allotted Bihar Cadre. He worked in various assignments in erstwhile Bihar and Jharkhand and also with Government of India in Ministry of textiles. He had his corporate experience as CMD National Jute Manufacturers Corporation Ltd and also as CMD Jute Corporation of India. He had worked as CMD and Administrators in several PSU's of Bihar Government. He retired from the post of Development Commissioner, Government of Jharkhand. After his retirement, he was Chairman Jharkhand Public Service Commission during 2013-2015."

He has been appointed as non-official part time Director on the Board of CMPDIL on 17.11.2015.

Shri Peeyush Kumar (43), graduated in Mining Engineering with Silver Medal from Indian School of Mines, Dhanbad in 1993. He obtained 1st Class Mines Managers Certificate of competency in coal from DGMS and also did short term courses in rock mechanics and environment management in mines from IT BHU. At present he is pursuing part time research from ISM, Dhanbad.

He has worked in various open cast and underground coal mines of CCL in different capacities and also at corporate office of CCL. He was part of the CIL delegation to USA to study CBM, CMM, VAM techniques. He has also undergone training on washery technology & longwall mining in Japan and UNFC classification of coal resources at Geneva, Switzerland. He was part of Indian side in various working group meetings with Japan, EU, Russia, Belarus, US and G20 meeting at Australia.

At present he is Director Technical in the Ministry of Coal responsible for all technical

matters of Coal Mining and related policies and also is a member of Board of Mineral Exploration Corporation Limited.

He has been appointed as Permanent Invitee on the Board of CMPDIL on 06.05.2016.

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

Shri Rakesh Mittal, Shri Rajender Parshad and Dr. Debasish Gupta are 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 2015-16.

1.5.3 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.
- 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.

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
- 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

F. Composition:

The Audit Committee consists of following members and is headed by a non-official part-time Director (Independent Director):

1.	Chairman	Sri R.K Mittal	Non-official part-time Director
2.	Member	Sri R. Parshad	Non-official part-time Director (From 30.12.2015)
3.	Member	Dr. Debasish Gupta	Non-official part-time Director (From 30.12.2015)
4.	Member	Sri D. N. Prasad	Govt. nominee Director
5.	Member	Sri N.Kumar	Director (Technical)
6.	Member	Sri R.K. Chopra	Director (Technical) (Upto 30.09.2015)
7.	Member	Sri V.K. Sinha	Director (Technical) (From 29.10.2015)

General Manager Finance, Chief Manager (Internal Audit) and Statutory Auditors are invited to the Audit Committee Meeting. 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.

G. Meeting and Attendance:

Six meetings were held during the financial year 2015-16 on 22.05.2015, 30.07.2015, 11.09.2015, 29.10.2015, 02.02.2016 and 18.03.2016 respectively. The details of the audit committee meetings attended by members are as under:

Members of Audit Committee	Status	Meetings held	Meetings attended
Shri R.K.Mittal	Chairman	6	6
Shri D. N. Prasad	Member	6	4
Shri N. Kumar	Member	6	4
Shri R. Parshad	Member	6	2
Dr. Debasish Gupta	Member	6	2
Shri R.K. Chopra	Member	6	3
Shri V.K. Sinha	Member	6	2

1.5.4 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 Nomination & Remuneration Committee consists of following members and is headed by a non-official part-time Director (Independent Director):

1	Chairman	Shri Rajender Parshad	Non-official part-time Director
2	Member	Shri D.N.Prasad	Official part-time Director
3	Member	Shri N. Kumar	Official part-time Director
4	Member	Shri Rakesh Kumar Mittal	Non-official part-time Director
5	Member	Dr. Debasish Gupta	Non-official part-time Director
6	Member	Shri Binay Dayal	Director (Technical)
7	Company Secretary	Shri P Lazar	Upto 17.02.2016
8	Company Secretary	Shri Abhishek Mundhra	From 18.02.2016

Shri Bimlendu Kumar, HoD (P& A) is the nodal officer of the Committee providing all services to the Committee.

B. Meeting and Attendance:

One meeting was held during the financial year 2015-16 on 08.02.2016. The details of the Nomination & Remuneration Committee meetings attended by members are as under:

Members of Audit committee	Status	Meetings held	Meetings attended
Shri Rajender Parshad	Chairman	1	1
Shri D.N.Prasad	Member	1	-
Shri N. Kumar	Member	1	1
Shri Rakesh Kumar Mittal	Member	1	-
Dr. Debasish Gupta	Member	1	1
Shri Binay Dayal	Member	1	1

1.5.5 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 & Sustainability Committee in its 172nd meeting held on 10.05.2013.

Composition:

The CSR Committee consists of following members and is headed by a non-official part-time Director (Independent Director):

1.	Chairman	Shri R.K.Mittal	Non-official part-time Director
2.	Member	Shri Dilip Kumar Ghosh	Director (Technical /ES) (Upto 30.11.15)
3.	Member	Shri Rajesh Kumar Chopra	Director (Technical /P&D) (Upto 30.09.15)
4.	Member	Shri B.N. Shukla	Director (Technical / CRD) (From 30.12.15)
5.	Member	Shri Binay Dayal	Director (Technical / P&D) (From 30.12.15)

Meeting and Attendance:

Two meetings were held during the financial year 2015-16 on 30.07.2015 and 02.02.2016. The details of the CSR Committee meetings attended by members are as under:

Members of CSR committee	Status	Meetings held	Meetings attended
Shri R.K.Mittal	Chairman	2	2
Shri Dilip Kumar Ghosh	Member	2	1
Shri Rajesh Kumar Chopra	Member	2	1
Shri B.N. Shukla	Member	2	1
Shri Binay Dayal	Member	2	1

1.5.6 Remuneration of Directors

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 are as under:

(Figure in Rs)

Name	Designation	Gross Salary and Allowances Including Leave encashment	Perks	HRA	CMPF Employer's Contribution	PRP Advance	TOTAL	LTC & Medical expenses
Shri A.K Debnath	Ex-CMD	1531103.00	341223.00	0.00	183317.00	237033.00	2292676.00	108453.00
Shri Shekhar Saran	CMD	2116150.00	450785.00	0.00	253433.00	37175.00	2857543.00	147977.00
Shri D.K Ghosh	Director (Tech)	1568243.20	268832.00	0.00	187818.00	423700.00	2448593.20	0.00
Shri R.K Chopra	Director (Tech)	1210035.00	204750.00	0.00	144927.00	467377.00	2027089.00	77089.00
Shri V.K. Sinha	Director (Tech)	2170858.00	395761.00	0.00	259998.00	63855.00	2890472.00	207063.00
Shri B.N. Shukla	Director (Tech)	946277.00	199254.00	0.00	113289.00	68974.00	1327794.00	11433.00
Shri Binay Dayal	Director (Tech)	695165.00	136500.00	60,000.00	76059.00	78174.00	1045898	28622.00

B. Part-Time Official Directors

No remuneration is being paid to the Part-Time Official Directors by CMPDIL. Shri D.N. Prasad, Adviser (Projects) is the nominee Director from the Ministry of Coal, Govt. of India, New Delhi and Shri N. Kumar, Director (Technical) is the nominee Director from Coal India Limited, Kolkata and their remuneration is being paid by the Ministry of Coal Govt of India and Coal India Limited respectively.



C. Part-Time Non-Official Directors

No remuneration is being paid to the Part-Time Non-Official Directors of the Company except the sitting fees for attending the Board and Committee meetings at the rate fixed by the Coal India Board within the ceiling fixed under the Companies Act, 2013. The details of the sitting fees paid to the Part-Time Non-Official Directors are given as under:

Sl. No.	Name	Sitting Fees paid for attending		Total (Rs.)
		Board Meeting (Rs.)	Committee Meeting (Rs.)	
1.	Shri R.K.Mittal	120000.00	120000.00	240000.00
2	Shri Rajender Parshad	45000.00	45000.00	90000.00
3.	Dr. Debasish Gupta	45000.00	45000.00	90000.00

1.5.7(i) Annual General Meetings

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

Details	2012-13 38 TH AGM	2013-14 39 TH AGM	2014-15 40 TH AGM
Date	22.05.2013	10.06.2014	22.06.2015
Time	10.30 A.M.	11:00 A.M.	11:30 A.M.
Venue	At the Registered office of the company, Gondwana Place, Kanke Road, Ranchi, Jharkhand-834031	At the Registered office of the company, Gondwana Place, Kanke Road, Ranchi, Jharkhand-834031	At the Registered office of the company, Gondwana Place, Kanke Road, Ranchi, Jharkhand-834031
Special Resolution	Nil	Nil	Nil

1.5.7(ii) Extra Ordinary General Meeting

Details	2013-14	2014-15	2015-16
Date		27.03.2015	
Time		11:00 A.M	
Venue	NIL	At the Registered office of the company Gondwana Place, Kanke Road, Ranchi, Jharkhand-834031	NIL
Special Resolution		No	

1.5.7(iii) Independent Directors Meeting:

In the absence of full strength of Independent Directors during the financial year 2015-16 no meeting could be held. The meeting of

Independent Directors will be held from next year onwards.

1.5.8 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 2016 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 2015-16 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

• **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, Code of Conduct etc. are complied with. However, the Guidelines like Remuneration Committee, 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. The two independent directors are yet to be appointed by MOC. CMPDIL has intimated the status of pending appointments of Independent Directors to CIL/MOC.

- **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 and the General Manager (Finance) of the Company have furnished the "CEO/CFO Certification" for the Year 2015-16 to the Board of Directors of the Company which is placed as addendum 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 in the website of the Company i.e. www.cmpdi.co.in. 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 2016.

- **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 CMPDI during the financial year 2015-16.

- **Annual Return**

Annual Return is regularly filed with ROC. Annual Return (Form No. MGT-7) for the year 2014-15 was filed with ROC on 17.02.2016 and for the current year 2015-16 is being filed with the ROC. An extract of Annual Return in Form No: MGT-9 is placed as addendum to this report.



1.5.9 Means of Communication

The Company communicates with its shareholder through its Annual Report, General Meetings and disclosures through its website, Official journal "Sampatha", MineTech 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.

1.5.10 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, 2016 is enclosed.

1.5.11 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.

1.5.12 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 November 4th, 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.

A certificate was also given by Internal Audit Department to the effect that no Whistle Blower was prevented from approaching the Audit Committee.

1.5.13 Risk Management System

Risk Management Committee was constituted by CMPDIL Board of Directors in its 192nd Board Meeting held on 02.02.2016

The following is the structure/framework for the Risk Management System at CMPDI:

1. Risk Management Committee(RMC):
 - a. Shri V. K. Sinha, Director (Technical – RD&T), Chairman RMC.
 - b. Shri D. K. Rao, GM(Finance), Member
 - c. Shri Shashi Kant, GM (Business Development), Member
 - d. Shri B. Bhattacharjee, HOD (Management System), Ex Officio Member Secretary,
 - e. Shri B. Kumar, HOD (Personnel& Administration), Member, and
 - f. Shri A. Mundhra, Company Secretary, Member.

The first meeting of the Risk Management Committee of CMPDI was held in the office of Director (Technical – RD&T), CMPDIL on 09/03/2016. The meeting was chaired by Shri V. K. Sinha, Director (Technical – RD&T), Chairman RMC. The other members who attended the meeting were to finalise a sub-committee the composition of which is:-

1. Chief Risk Officer:

Shri Parag Majumdar, G.M. (E&M).

2. Risk Sub-Committee (RSC) i.e. CRO's team:

- a. Shri B. Bhattacharjee, HOD(MSD),
- b. Shri Anandji Prasad, Chief Manager (Mining/UMD),
- c. Ms. Suchandra Sinha, Sr. Manager (E&M),
- d. Shri U. Chatterjee, Sr. Manager

(Finance), and

- e. Ms Swati, Sr. Officer (Personnel/P&A).

1.5.14 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.

1.5.15 Accountability of Directors

Memorandum of Understanding (MOU) between the management of CMPDI 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 CMPDI 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.

1.5.16 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.

1.5.17 Key Managerial Personnel

As per the provisions of section 203 of the Companies Act, 2013, the key Managerial Personnel are:

Shri Shekhar Saran - CEO

Shri D.K. Rao - CFO

Shri Abhishek Mundhra - Company Secretary

1.6.0 CSR initiative at CMPDI

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 follows the CSR policy as formulated by Coal India Limited for all its subsidiaries 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. CMPDI 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 CMPDI to implement its policies and programs.

Keeping in view the special nature of its business, CMPDI initiated its CSR & Sustainability activities during 2015-16 which may be found in Part-B of the report.

1.7.0 Extract of Annual Return

The Extract of Annual Return as per Section 92(3), being filed with the Registrar of Companies (ROC) in Form No. MGT-9 with the details therein are enclosed as annexure to this report. **(Addendum-III)**.

1.8.0 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)**

1.9.0 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 19.04 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 CIL for the holding company and its subsidiary company.



PART : B

ANNUAL PERFORMANCE OVERVIEW

1.0 Geological Exploration & Drilling

1.0.1 CMPDI continued to carry out coal exploration activities in 2015-16 also, mainly in CIL and Non-CIL/ 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.

1.0.2 CMPDI has substantially improved the capacity of drilling during XI & XII plan period. As against the achievement of 2.09 lakh metre in 2007-08, CMPDI has achieved 4.98 lakh metre in 2011-12, 5.63 lakh meter in 2012-13, 6.97 lakh meter in 2013-14, 8.28 lakh meter in 2014-15 and 9.94 lakh meter achieved in 2015-16 (Growth - 20%) through departmental resources and outsourcing. For capacity expansion through modernization of departmental drills, 39 new Mechanical drills & 12 Hi-Tech Hydrostatic drills have been procured since 2008-09, out of which 12 have been deployed as additional drills and 39 as replacement drills. CMPDI has also replaced 57 mud pumps, 74 trucks and 17 Multiutility Crew Cab in last seven years. In addition to this, supply order for 7 Hi-Tech Hydrostatic drills have been placed in 2015-16, which will be received in 2016-17.

To meet the increased work load, recruitment has been taken up through campus interview / open examination. 240 geologists, 34 geo-physicists and 20 Mechanical Engineers for Drilling have joined CMPDI since 2008-09. About 1226 non-executive staffs have also been inducted for exploration work.

1.0.3 Under outsourcing, the work of 65 blocks involving 24.44 lakh metre of drilling was awarded through tendering since 2008-09, out of which drilling has been concluded in 29 blocks. Due to local (law & order) problems, work could not start in 2 blocks and stopped in 6 running blocks. Due to non-availability of forest clearance work is stopped in 11 blocks. Due to lack of forest clearance and adverse law & order, about 4.85 lakh m. of drilling could not be carried out in departmental & outsourced blocks in 2015-16.

In 2015-16, a total of about 5.857 lakh m (Growth- 24%) is drilled through outsourcing, out of which 2.332 lakh m through tendering, 2.472 lakh m through MoU with MECL and 0.053 lakh m through State Govts.

1.1 Drilling Performance in 2015-16:

1.1.1 CMPDI deployed its departmental resources for detailed exploration of CIL/Non-CIL blocks whereas State Govts. of MP and Odisha deployed resources in CIL blocks only. Besides, eight other contractual agencies have also deployed resources for detailed drilling/exploration in CIL/Non-CIL blocks. A total of 140 to 160 drills were deployed in 2015-16 out of which 62 were departmental drills.

CMPDI continued the technical supervision of Promotional Exploration work undertaken by MECL in Coal Sector (CIL & SCCL areas) in 7 blocks. Apart from it, GSI has also undertaken Promotional Exploration in 9 blocks and DGM (Nagaland) in 1 block in Coal Sector on behalf of MoC. Promotional Exploration work undertaken by MECL in Lignite Sector in 8 blocks & GSI in 4 blocks. A total of 1.12 lakh m. of promotional drilling was carried out in Coal (0.52 lakh m.) & Lignite (0.60 lakh m.) during 2015-16.

1.1.2 In 2015-16, CMPDI and its contractual agencies took up exploratory drilling in 113 blocks/mines of 22 coalfields situated in 6 States. Out of 113 blocks/mines, 35 were Non-CIL/Captive blocks and 78 CIL blocks/mines. These coalfields are Raniganj (10 blocks/mines), Rajmahal(2), Jharia (2 blocks), Auranga(2), E.Bokaro (1), W.Bokaro (2), Ramgarh (1), South Karanpura(2), North Karanpura (5), Kamptee (5), Wardha Valley(6), Pench-Kanhan(2), Sohagpur (12), Mand Raigarh (17), Korba (4), Bishrampur (7), Sonhat (2), Tatapani-Ramkola- (4), Singrauli (6), Talcher (14), Ib Valley (5) & Godavari Valley(2). Departmental drills of CMPDI took up exploratory drilling in 50 blocks/mines

whereas contractual agencies drilled in 63 blocks/mines.

1.1.3 Under Promotional (Regional) Exploration Programme, MECL has undertaken Promotional drilling in 6 coal blocks (Mand Raigarh = 3, Bander = 1 & Singrauli = 2). GSI has undertaken 19 blocks for Promotional drilling (Raniganj CF=1, Talcher CF= 1, Ib Valley = 3 & Sohagpur = 4. DGM (Nagaland) has also undertaken 1 block for Promotion drilling in Coal Sector.

The overall performance of exploratory drilling in 2015-16 is given below:

(Figures in Lakh meter)

Agency	Target 2015-16	Performance of Exploratory Drilling in 2015-16			Achieved Prev. Year: 2014-15	Growth%
		Achieved	Achieved (%)	+/-		
A. Detailed Drilling Undertaken by CMPDI :						
I. Departmental	4.00	4.08	102%	0.08	3.56	14%
II. OUTSOURCING						
State Govts.	0.10	0.05	53%	-0.05	0.07	-23%
MECL (MOU)	4.00	2.47	102%	-1.53	2.20	12%
Tendering (CIL blocks)	4.30	2.21	51%	-2.09	1.59	38%
Tendering (Non-CIL blocks)	2.61	1.13	43%	-1.48	0.85	32%
Total Outsourcing	11.00	5.86	53%	-5.14	4.72	24%
Grand Total A*	15.00	9.94	66%	-5.06	8.28	20%
B. Promotional Drilling by MECL, GSI, DGM(Nagaland) & DGM(Assam):						
I. COAL SECTOR						
GSI	0.190	0.161	85%	-0.029	0.189	-15%
MECL	0.755	0.352	47%	-0.403	0.503	-30%
DGM, Nagaland	0.008	0.008	94%	-0.000	0.004	76%
DGM, Assam	0.005	0.000	0%	0.005	0.000	0%
CMPDI	0.030	0.000	0%	-0.030	0.011	-100%
Total Coal:	0.988	0.521	53%	-0.467	0.707	-26%
II. LIGNITE SECTOR						
GSI	0.082	0.079	97%	-0.003	0.085	-6%
MECL	0.680	0.523	77%	-0.156	0.603	-13%
Total Lignite	0.762	0.602	79%	-0.159	0.688	-12%
Grand Total B	1.750	1.123	64%	-0.626	1.395	-19%

* In 2015-16, 7.07 lakh m. has been drilled in CIL blocks and 2.87 lakh m. in Non-CIL blocks.

In 2015-16, CMPDI achieved its departmental and overall drilling targets by 102% and 66% respectively. The performance of departmental drilling is better than previous year with growth of 14% and recording average operational drills productivity of 549 m/drill/month. Non-availability of permission

to explore in forest areas & local problems (Law&Order) has affected the performance of outsourced drilling. MECL could not achieve the targets of Promotional drilling in coal sector due to forest problems & lesser deployment of resources and CMPDI could not take promotional drilling due to priority in detailed drilling.

1.1.4 Drilling in Non-CIL/Captive Mining Blocks:

A programme comprising 20.13 lakh meters (Including NER) of detailed drilling in coal has been drawn up by working group on "Coal & Lignite" for formulation of the Twelve five year plan with fund requirement of Rs. 974.69 crores through department resources and outsourcing. In 2015-16, a total of 4.82 lakh m of drilling was targeted in Non-CIL blocks (departmental - 0.65 lakh m, outsourcing - 3.51m). As against this, a total of 2.87 lakh m has been achieved, out of which the departmental drills of CMPDI have carried out 0.56 lakh m of exploratory drilling whereas 2.31 lakh m has been achieved through outsourcing.

Apart from above exploration work, CMPDI 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 CMPDI to allottee on payment of total cost of exploration.

As per guidelines issued by MoC, CMPDI 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 Hydro geological studies of a number of mining projects/mines were taken up for preparation of 'Groundwater Clearance Application' for CGWA approval and EMP clearance. Hydro geological studies for 29 mining projects/mines/cluster of mines in BCCL, CCL, WCL, SECL and MCL and were completed during 2015-16.

1.2.2 CMPDI is carrying out groundwater monitoring of MOEF cleared projects 77 nos. of mines of WCL area and 15 nos. Cluster of mines in BCCL area. Water level monitoring in other areas of ECL, CCL, SECL, NCL and MCL are also in progress.

1.2.3 Total 54 nos. of Hydrogeological studies on GR/PR/Piezometers and others have been completed during this period, including 18 WCL, 16 SECL, 6 MCL, 2 ECL, 3 BCCL, 5 NCL and 4 miscellaneous projects.

1.2.4 Hydrogeological studies in 10 projects of WCL, SECL and MCL have been carried out for water supply arrangement to mines, colony and villages.

1.2.5 Assessment of impact of coal- mining on groundwater system in coal-fields of CIL using CGWB and CMPDI data.

1.3 Geological Reports:

1.3.1 In 2015-16, 17 Geological Reports were prepared on the basis of detailed exploration conducted in previous years. In addition to this 5 Interim Geological Reports/ Geological Notes are also prepared. The prepared Geological Reports, about 6.1 Billion Tonnes of additional coal resources upgraded to 'Proved' category.

1.3.2 A GR on License Area Nos. 3450L & 3451L, Moatize Coalfield, Tete Province, Mozambique was submitted by CMPDI & CIL under supervision of Coal India Africana LDA.

1.3.3 Under Promotional Exploration Programme, GSI and MECL have submitted 3 Geological Reports on coal blocks, established about 1.03 Billion Tonnes of coal resources, in 'Indicated' & Inferred categories, above specified thickness.

1.4 Geophysical Surveys:

1.4.1 Geophysical Logging: Boreholes drilled for exploratory drilling were geophysically logged

to get the in-situ information of different strata encountered in the boreholes. During the year 2015-16, a total of 175503 depth metre 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, 81035 depth metre of logging was done by five departmental geophysical logging units and 94468 metre 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 329 line km of Resistivity profiling, 238 Vertical Electrical Sounding (VES) and 7565 stations of Magnetic survey have been carried out in 2015-16 for such purpose. With the 48-Channel signal enhancement Seismograph, a total of 57.8 line kms of High Resolution Shallow Seismic (HRSS) survey has been carried out in part of Mohanpur south & adjoining blocks, Raniganj coalfield, Patratu ABC blocks, South Karanpura Coalfield, Chandrabila block, Talcher Coalfield and part of Makri-Barka(E) block, Singrauli Coalfield.

1.4.3 Reports: A total of 24 Geophysical reports have been submitted during the year 2015-16. It includes nine reports on geophysical logging, eleven on resistivity/magnetic survey and four on HRSS survey.

1.5 Geosystem:

GPS Survey/WGS-84 conversion exercise for major coalfields to address block boundary issues on new topo sheet received for SOI completed barring few coalfields due to forest/ law and order issues. Exercise to include geological features on WGS converted blocks of different coalfields taken up. Support to other departments in terms of

requirement of various type of data and maps in order to resolve issues like block boundary coordinates, overlapping issues etc.

Closure report on ICRIS (Integrated Coal Information System) was submitted in Dec' 2015 to MoC.

In-house interactive graphic software CEMPGEODOC modified to address quality issue as per GCV. Support extended towards processing and interpretation of geophysical logs for quality and lithology interpretation through in-house software SASLINT.

1.6 Performance Against additional MoU Parameters:

(i) Addition/Replacement of Drills (Hydrostatic & new mechanical drills) to improve drill productivity: Against MoU target of 3 drills, 6 nos. of Hydrostatic drill machines have been commissioned by CMPDI.

(ii) Benchmarking of Drilling Productivity of CMPDI by some reputed institution like National Productivity Council: Against MoU target of 1st March, 2016, the report on 'Benchmarking Study of Drilling Productivity for CMPDI' has been submitted by National Productivity Council (NPC) vide their letter No.5105/131 dated 26.02.2016

1.7 COAL BED METHANE (CBM) / COAL MINE METHANE (CMM)

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

The Govt. has allotted two CBM blocks in 2002 namely Raniganj North CBM Block in Raniganj Coalfield and Jharia CBM Block in Jharia coalfield to the consortium of ONGC & CIL on nomination basis for commercial development of CBM. CMPDI is implementing the projects on behalf of CIL. ONGC is the Operator for both CBM blocks and carrying



out the project works as per the provisions of contractual agreement with the Govt. of India and Operating agreement entered into between ONGC & CIL. On completion of CIL part of Minimum Work Programme by CMPDI and Pilot Appraisal activity by ONGC Field Development Plan (FDP) was formulated by the Operator i.e.; ONGC for both the CBM Blocks.

The FDP for both the CBM Blocks were approved by Govt. of India in July 2013. Petroleum Mining Lease (PML) for Jharia CBM Block has been granted by State Government of Jharkhand state in July, 2015. However, works of Field Development Phase in Jharia CBM Block could not be started owing to grant of Environmental Clearance (EC). In Raniganj North CBM Block also the work of Field Development Phase could not be started owing to grant of PML & EC. Further, there are certain issues of overlap of Bengal Aerotropolis Project Ltd (BAPL) infrastructure development & few Coal Blocks in assessed area of Raniganj CBM Block. Matter has been taken at appropriate level for resolving the issues.

1.7.2 CBM and Shale gas related studies under Promotional Exploration during XII Plan

1.7.2.1 CBM related studies:

CMPDI and GSI are carrying out studies related to “Assessment of Coalbed Methane Gas-in-Place Resource of Indian Coalfields/Lignitefields” in selected boreholes being drilled under Promotional Regional exploration since X Plan period and XI Plan period respectively under Promotional Regional Exploration (PRE) funding. A total of 60 boreholes (40 by CMPDI and 20 by GSI) will be taken up for CBM specific data generation during the XII Plan. Studies have been completed by CMPDI in thirty two (32) boreholes and in eighteen (18) boreholes by

GSI. During the year 2015-16 studies has been done in eight (8) boreholes by CMPDI and seven (7) boreholes by GSI. CMPDI & GSI have completed CBM specific studies in 121 boreholes (83 by CMPDI & 38 by GSI) since commencement of the work.

A Total No. of twenty one reports have been submitted by CMPDI since April, 2007. During the year following three reports based on CBM related studies have been submitted by CMPDI:

- a) Subhadra West block, Talcher Cf,
- b) Dolesara block, Mand-Raigarh Cf.
- c) Brahmanbill block, Talcher Cf

1.7.2.2 Shale gas related studies:

CMPDI is carrying out studies related to “Assessment of Shale Gas-in-Place Resource of Indian Coalfields/Lignitefields” through boreholes being drilled under promotional exploration since XII Plan period under PRE funding of Ministry of Coal. This study will create the data base for assessment of shale gas potentiality and facilitate delineation of more blocks for Shale Gas development.

CMPDI has to carry out shale gas specific data generation in 25 boreholes during XII Plan period under PRE funding. For the plan period shale gas studies have been completed by CMPDI in twenty (20) boreholes. During the year 2015-16 target has been achieved by completing the studies in five boreholes by CMPDI.

1.7.3 Commercial development of Coal Mine Methane (CMM)

Commercial development of CMM is a priority area both at the Govt. and Coal Industry level. MoC has made CMPDI the Nodal Agency for development of CMM in India. Successful implementation of the Demonstration Project at Moonidih mine of BCCL, Jharia Coalfield

has already proved the efficacy of the process in Indian Geo-mining condition and five suitable areas within CIL mining leasehold areas were identified. To expand the scope of development of CBM in CIL areas, further studies for “Assessment of CMM Potentiality in CIL Command Area” has been undertaken. Presently detailed exercise has been initiated for recovery of CMM in ECL command area for which an area of 57 Sq. Km has been delineated.

Ministry of Coal vide Office Memorandum dated 29th July, 2015 has permitted CIL for exploration and exploitation of CBM from its coal mining lease hold areas. MoP&NG vide notification dated 3rd November, 2015 issued mechanism of operationalization/grant of PML in Coal mining leasehold areas of CIL. However some issues pertaining to grant of lease still needs clarification for which the matter has been taken up by CIL at appropriate level.

1.7.4 CMM/CBM Clearinghouse in India

A CMM/CBM clearinghouse was established at CMPDI, Ranchi under the aegis of Ministry of Coal and USEPA on 17th November, 2008. The clearinghouse is functioning as the nodal agency for collection and sharing of information on CMM/CBM related data of the country and help in the commercial development of CMM Projects in India by public/private participation, technological collaboration and bringing financial investment opportunities.

The clearinghouse has been established with financial support from Coal India Ltd. on behalf of Ministry of Coal and US EPA. The website of India Clearinghouse, <http://www.cmmclearinghouse.cmpdi.co.in>, encompasses all the important information viz. EoI notifications, newsletters in addition to information regarding opportunities

existing for development of CMM, VAM, etc. After completion of initial three years term it was extended for another three years. USEPA has further granted extension of additional term i.e.; three years (2015-17).

Under GMI initiative a Pre-feasibility study on pre-mine methane drainage feasibility for (a) Sawang UG mine, East Bokaro Cf in 2014 and (b) Chinakuri UG mine, Raniganj Cf in 2016 has been under taken by the USEPA Consultant under the Coalbed Methane Outreach Program (CMOP) and during the visit of USEPA officials on 9th February, 2016 the Pre-feasibility study on CMM drainage at Chinakuri Mine (ECL) was deliberated along with mine officials. Mr. Craig L Hall, Consul General, US Consulate, Kolkata also visited India CMM/CBM Clearinghouse on 26th February'2016 and appreciated the accomplishments.

1.7.5 SAARC Workshop Program “Experience Sharing on CBM, UCG & Coal Extraction Methodology”

SAARC Training Workshop on “Experience sharing on CBM, UCG and Coal Extraction Methodology” was organized at Delhi on 26th – 27th November, 2015 in pursuance to MoC F.No 34011/1/2015-CRC-II dated 26th May, 2015. It was organized in collaboration with SAARC Energy Centre, Islamabad and CMPDI where representatives from six member countries of SAARC participated in the program. It was highly appreciated by the participating countries.

1.7.6 Commercial development of Underground Coal Gasification (UCG) within CIL command area

MoC has constituted Inter Ministerial Committee (IMC) for identification of areas for UCG on the line broadly similar to the existing policy of CBM development. Two meetings of IMC were held under the



Chairmanship of Special Secretary (Coal). In the 2nd IMC meeting potential blocks in coal and lignite were identified for the commercial development of UCG.

1.7.7 S&T and R&D Projects

Projects on Coalbed Methane

1.7.7.1 S&T Project on “CBM Reserve Estimation for Indian coalfields”

An S&T project regarding “CBM Reserve estimation for Indian coalfields” has been approved under EoI of Coal S&T project vide MoC letter no. 34012/1/2014-CRC-I dated 25th Feb, 2014. The project is of 3 years duration in effect from 24th March, 2014. IEST (BESU), Shibpur is the main implementing agency and NGRI, Hyderabad, TCE, Kolkata and CMPDI are co-implementing agencies. An area in South Karanpura Coalfield has been finalized for taking up 2D/3D Seismic survey by NGRI.

1.7.7.2 S&T Project on “Capacity Building for Extraction of CMM Resource within CIL Command Areas”

A S&T project regarding “Capacity Building for Extraction of CMM Resource within CIL Command Areas” jointly implemented by CMPDI and CSIRO has been approved under Coal S&T project vide MoC letter no. 34012/4/2016-CRC-I dated 21st March, 2016. The project is of 3 years duration with effect from 23rd March, 2016.

Project on Shale Gas

1.7.7.3 S&T Project titled “Shale Gas Potentiality of Damodar Valley Basins of India”.

A S&T project regarding “Shale gas potentiality of Damodar basin of India” is under implementation. NGRI, Hyderabad is the principal implementing agency of the project and CMPDI, Ranchi & CIMFR, Dhanbad are sub implementing agencies. The project completion schedule has been

revised to May, 2017 with total project cost Rs. 2038.09 Lakh. The project objective is to evaluate potentiality of Shale gas in Damodar basin through integrated geophysical, geological, geo-chemical and petro-physical investigations. Initially studies is being done in Rangamati B block (Tumni & Kanchanpur Sector) of Raniganj Cf where NGRI will take-up the 3D seismic survey and 2D Seismic survey for which District Authority has advised BDO to extend support to NGRI. NGRI team has taken-up preliminary activities to start the studies as equipment is stationed at CMERI, Durgapur. On the findings of Seismic survey, CMPDI will take up its part of committed activities i.e; drilling of boreholes for generation of data.

Project on VAM

1.7.7.4 A project proposal on mitigation/utilization of Ventilation Air Methane (VAM) is under finalization to take up at Moonidih (Jharia coalfield) under CIL (R&D) and National Clean Energy Fund (NCEF) of Government of India with CSIRO, Australia and CMPDI as the implementing agencies and BCCL as sub implementing agency. The project has been approved in principal by CIL (R&D) Board and will be taken up upon competent approval of the Government.

2.0 PROJECT PLANNING & DESIGN

As prioritized by subsidiary companies of Coal India Limited, preparation of Project Reports (PR) for new / expansion / re-organisation mines was carried out during the year 2015-16 for building additional coal production capacity to the tune of 96 Mty. Revision of Project Reports/Cost Estimates for projects was also taken up along with new PRs. Thrust was laid on preparation of reports of identified projects of XII Plan Project Reports.

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

- Master Plan of Coalfields
- Preparation of Feasibility Reports, preparation & evaluation of RFQ (Request for Qualification) and RFP (Request for Proposal) documents and customisation of bid document for coal washeries
- Operational plans for OC mines
- Environment Management Plan (EMP)
- Mining Plans and Mine Closure Plans of OC and UG mines
- Mine capacity assessment of underground & opencast mines of CIL.
- Various technical studies relating to operation of opencast & underground mines.
- Performance analysis of HEMM operating in OC mines of CIL.
- Preparation of Global Bid Documents for underground mines of CIL.
- Preparation of Conceptual Reports for setting up of FBC based thermal power plants.
- Detailed design and drawings, NIT, tender scrutiny, etc.

During the year 2015-16, 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), Benchmarking of Diesel & Electrical Consumption and Fixation of Diesel & Electrical Consumption Norms of Opencast and Underground 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 and Cleat Study on coal samples, Coal Core Processing & Analysis, Washability tests, OBR Survey, Man Riding System, Soil Erosion Study, Slope Stability Study, Effluent/Sewerage Treatment Plants, etc.

During the year 2015-16, a total of 260 reports

have been prepared for CIL and its subsidiary companies.

The break-up of reports prepared has been given below:

Reports	Nos.
Geological Reports	17
Project Reports	26
Other Studies	167*
Draft EMPs (including 16 Form-I)	50
Total	260

*This includes preparation of Master Plans for South Karanpura Coalfield, Pench-Kanhan Coalfield & BG Area of MCL and preparation of 3 Operational Plans of opencast mines.

Detail of reports prepared during the period 2015-16 is furnished below:

Regional Institute/HQ		Name of the Reports
Geological Reports		
RI-I	1.	Narainkuri
	2.	Jhanjra (Revised GR)
RI-III	1.	Hindegir
RI-IV	1.	Saoner II & III
RI-V	1.	Revised GR for Sayang, Sayang NW, Sayang Central-A, Sayang East-A, Sayang East-B (Combined)
	2.	Renki
	3.	Revised GR for Chira North, Chira NE-A & Chira NE-B (Combined)
RI-VI	1.	Gandbahera Ujheni
	2.	Block B Extn. Ph-II
RI-VII	1.	Phuljhari East & West
	2.	Chhendipada OCP Exp. (Baitarni East)
HQ(Contractual)	1.	Raham
	2.	Banai (Non-CIL)
	3.	Silewara Deep
	4.	Tatarwara
	5.	Tentuloi
	6.	Ghughra (West)
Project Reports		
RI-I	1.	Nakrakonda Kumardih B OC
	2.	Combined PR for Jhanjra UG
	3.	Tilaboni UG (Recast PR)
	4.	Siduli UG/OC (Recast PR)



Central Mine Planning & Design Institute Limited

Regional Institute/HQ		Name of the Reports
	5.	Belbaid Parasea UG
	6.	Mohanpur OCP Expn.
RI-III	1.	Konar Expn. OCP
	2.	Amrapali Expn OC
	3.	Religara OCP
	4.	Jaridih OCP
	5.	Bhurkunda OCP
RI-IV	1.	PR for Pauni II & III Amalgamated OC
	2.	Recast PR of Sharda UG
	3.	Recast PR of Gandhigram UG
	4.	Khumbharkhani OC
	5.	Saoner-I UG to OC
	6.	Saoner-II to III UG to OC
RI-V	1.	Gevra Expn. OC (35 to 70 Mty)
	2.	Chirimiri OC RPR
	3.	West Jhiria OC
RI-VI	1.	RCE for Nigahi OCP
	2.	EPR of Block B OCP
RI-VII	1.	Reorganisation of Bharatpur OCP
HQ	1.	Samaleswari OCP Expn. (Recast PR)
	2.	Asnapani East Side UG Mine, CCL
	3.	Kyada-Chaudhar-Gariapani, ECL
Operational Plans		
RI-II	1.	Amalgamated Keshalpur West Mudidih Opencast with OB dump optimisation
RI-III	1.	Rajhara OCP
RI-V	1.	Gare Pelma IV/I
Other Reports		
RI-I	1.	Mining Plan for sand mining in the riverbed of Damodar
	2.	Mining Plan for sand mining in the riverbed of Ajoy
	3.	Scheme for Bhanora West OC
	4.	Blast induced vibration study at North Searsole OC
	5.	Blast induced vibration study at Bansra OC
	6.	UCE of Chuperbhita OC
	7.	Scheme for introduction of PSLW with backfilling technology in Amritnagar Colliery & Amkola unit of Nimcha Colliery
	8.	RCE for Madhaipur OC Patch
	9.	Scheme for introduction of PSLW with backfilling technology in Amritnagar Colliery & Amkola unit of Nimcha Colliery
	10.	Mining Plan for Cluster No.11
	11.	Vibration Study at Kottadih OCP

Regional Institute/HQ		Name of the Reports
	12.	Blast induced vibration study at Dabor OCP
	13.	Vibration Study at Narainkuri OCP
RI-II	1.	Mining Plan of proposed Dobari OCP
	2.	Mining Plans of Katras Choitudih Colliery, Salanpur Colliery & AAR Colliery
	3.	Mining Plan of Gastlitand Colliery
	4.	Mine Closure Plan of Dobari OCP
	5.	Preparation of Mining Plan of AKWM Colliery
	6.	Diesel audit and benchmarking of Block-II OCP
	7.	Energy audit and benchmarking of Block-II OCP
	8.	GR for PR for Chandrapura OCP
RI-III	1.	UCE of Jeevandhara OCP
	2.	Master planning of SKCF
	3.	UCE of KD Hesalong OCP
	4.	UCE of North Urimari OCP
	5.	UCE of Swang Pipradih
	6.	UCE for Karo EPR OC
	7.	Pre-Feasibility Report for Ashoka OCP
	8.	UCE of Govindpur Phase-II OCP
	9.	Scheme for working of Gidi-A OCP
	10.	Scheme for Kargali OCP
RI-IV	1.	UCE of Singhori OC
	2.	UCE of Yekona Combined
	3.	Scheme for Ghughus OC for deployment of Dragline at Pits patch
	4.	UCE of Bhakra & Haradol UGs
	5.	UCE of Ghonsa RPR
	6.	Scheme for deployment of continuous cutting technology in Tawa-II UG
	7.	UCE of Gondegaon Gatrohana OC
	8.	Scheme of Juna-Kunada OC mine beyond PR limit
	9.	UCE of Bhatadih Extn. OC
	10.	UCE of Kamptee Deep OC and Mungoli Nirguda Expn. OC
	11.	UCE of Shivani OC & Jamunia UG
	12.	Scheme for introduction of 3 nos. low height SDLs eliminating manual loading at Chhatarpur UG mine No. II, Patherkhera Area.
	13.	Scheme on remedial measures of Acidic Mine discharge at Urdhan OC of Pench Area, WCL
	14.	Diesel Energy Audit Report with Bench Marking for Mungoli OC

Regional Institute/HQ		Name of the Reports
	15.	Diesel Energy Audit Report with Bench Marking for Niljai OC
	16.	Interim GR for Konda Hardola
	17.	Master Plan for Pench-Kanhan Coalfield/ Coal Evacuation Plan for WCL
	18.	Electrical Energy Audit Report with Bench Marking for Naheria UG
	19.	Electrical Energy Audit Report with Bench Marking for Durgapur OC
	20.	Interim GR for Rajur Manikgarh
	21.	Interim GR for Bhamani Palsagaon
RI-V	1.	UCE of Malachua OC
	2.	UCE of Batura West OC
	3.	Scheme of Gayatri UG
	4.	RCE of Amgaon OC
	5.	Controlled blasting study at Amgaon OCM
	6.	Subsidence prediction study for Meera Incline UG
	7.	RCE of Ambika OC
	8.	UCE of Vijay West OC
	9.	Controlled blasting study at Baroud OCP
	10.	Man Riding Scheme for Khairaha UG
	11.	Controlled blasting study at Gevra OCP
	12.	Controlled blasting study at West Chirimiri OCP
	13.	Vibration study at surface of Meera UG Mine
	14.	Feasibility study of Pandavpara UG
	15.	Jagannathpur RCE
	16.	Scheme for Revised Project Report study of Rehar Project
	17.	Subsidence prediction report of Birsinghpur UG
	18.	Vibration study at Amlai OC
RI-VI	1.	Mining Plans of Amlohri OCP & Khadia OCP
	2.	Scheme for -100mm coal for existing CHPs in NCL
	3.	UCE of Jayant OCP
	4.	Diesel auditing and benchmarking of Jayant OCP
RI-VII	1.	Mine Closure Plan of Kulda OCP
	2.	Mine Closure Plan of Lingaraj OCP
	3.	UCE of Gopaljee-Kaniah Expn. OCP
	4.	Surface Master Plan of BG Area of MCL
	5.	Top soil management plan of Lingraj OCP
	6.	UCE of Integrated Lakhanpur-Belpahar-Lilari OCP

Regional Institute/HQ		Name of the Reports
	7.	Mine Closure Plan of Kaniha OCP
	8.	Mine Closure Plan of Balram OCP
	9.	Mining Plan of Belpahar OCP
	10.	Study report on deployment on Continuous Miner in thin seams
	11.	Combined Mining Plan/Mine Closure Plan of Lilari OCP
	12.	Combined Mining Plan/Mine Closure Plan of Belpahar OCP
HQ	1.	Report on RMR studies of Shyampur 'B' Colliery (Gopinathpur Seam), Gourandih Begunia Colliery (B-IV Seam) and Barmondia (A) Colliery (Lower Dhadka (R-VII) Seam of ECL
	2.	Slope Stability Study of Gevra OCP, SECL
	3.	Diesel Audit and Benchmarking of Amla OCP, CCL
	4.	Diesel Audit and Benchmarking of Umrer OCP, WCL
	5.	Electrical Energy Audit and benchmarking of Ashoka OCP, CCL
	6.	Electrical Energy Audit and benchmarking of KHD OCP, CCL
	7.	Controlled blasting at Birsa OCP, CCL
	8.	Land use/cover mapping of buffer zone of Garjanbahal OCP, MCL
	9.	Slope stability study of Ananta OCP, MCL
	10.	UCE of Piparwar and Mangardaha UG Project
	11.	Controlled blasting at Magadh OCP, CCL
	12.	Controlled blasting using ED at Dhori OCP, CCL
	13.	Report on RMR studies of Pit No.8, Bankola Colliery (Bonbahal Seam), No.2 Incline, Bankola Colliery (Bankola Seam) and Sankalpa Khani, Bankola Colliery (R-VII Seam) of ECL
	14.	Land use/cover mapping of buffer zone of Dhanpuri OCP and Basundhara OCP, MCL
	15.	Land use/cover mapping of buffer zone of Selected Dhori OCP and Ashoka Expn. OCP, CCL
	16.	Controlled blasting at Damagoria OCP, BCCL
	17.	Land use/cover mapping of buffer zone of Rajhara OCP and Topa OCP, CCL
	18.	Land use/cover mapping of buffer zone of Govinda UG, SECL
	19.	Land use/cover mapping of buffer zone of Kakudi sand mine, MCL
	20.	UCE of Lekhapani OCP, NEC
	21.	Slope Stability Study of Lilari OCP, MCL



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Regional Institute/HQ		Name of the Reports
	22.	Slope Stability Study of Kathara OCP, CCL
	23.	Cavability analysis report of seam-V and suitable method of complete extraction of full thickness of seam i.e. 4.8m for Jhilimili mine, SECL
	24.	Preparation of RFQ/RFP documents for selection of Mine Operator for Opencast/Underground Mines of CIL on MDO/PPP basis
	25.	Model document for development & operation of UG mines
	26.	Pre-Feasibility Report for Kusmunda Washery, SECL
	27.	Mine Capacity Assessment of UG mines
	28.	Standard Price List for mining equipment
	29.	Gas survey of seam VIB of Khairaha Colliery, SECL
	30.	Soil erosion study of Sayal OCP, CCL
	31.	Land use/cover mapping of Karo OCP & Konar OCP, CCL
	32.	Mine Capacity Assessment & Capacity Utilisation during 2015-16
	33.	Performance analysis of HEMM of CIL (Subsidiary wise)
	34.	Preparation of Conceptual Report of Karo Washery
	35.	Preparation of TEFR for Lakhanpur Washery, MCL
	36.	Performance analysis of Excavators, Dumper & summary of CIL
	37.	Vegetation cover mapping of East Bokaro Coalfield
	38.	Report on identification of unauthorised construction in lease area of expansion projects of Singrauli Coalfields
	39.	Preparation of scheme for installation of man-riding system at seam-1 Incline, New Akashkinaree Colliery of BCCL
	40.	Report on RMR studies of Bhanora West Block Colliery (R-V and R-VI Seams), Sripur Seam Incline Colliery (R-VI Seam) and Narsamuda Colliery (R-X Seam), ECL
	41.	Preparation of FR for Kusmunda washery
	42.	Soil erosion study of Sirka OCP, CCL
	43.	Slope stability study of Chirimiri OCP, SECL
	44.	Preparation of Revised Conceptual Report for Baroud Washery
	45.	Scheme of STP for Sonepur-Bazari OCP, ECL

Regional Institute/HQ		Name of the Reports
	46.	Specific consumption of Explosives, Diesel & electric power in all opencast mines of CIL
	47.	Ventilation study of Ballarpur Pit no.3 & 4, Ballarpur Area, WCL
	48.	Scientific studies using numerical technologies to ascertain the safety aspect of Western quarry in Manikpur OC, WCL
	49.	Preparation of scheme & detailed technical specification for installation of man riding system at Amritnagar Colliery, Bansra Colliery and Jambad Colliery of ECL
	50.	Pressure Survey at Sarpi Project, Shyamsunderpur Colliery, ECL
	51.	Slope stability study of Kaniha OCP, MCL
	52.	Soil Erosion study of Kaniha OCP, MCL
	53.	Controlled blasting for coal at Damagoria OCP, BCCL
	54.	Controlled blasting and vibration study at Kaniha OCP, MCL
	55.	Global Bid Document for Supply, Installation and Commissioning of locomotive man riding system at Moonidih Project, BCCL
	56.	Report on RMR studies of Sarubera East Colliery (Seam-I), CCL
	57.	Annual benchmarking of 11 OCPs identified by CCL
	58.	Annual benchmarking of 8 OCPs identified by ECL
	59.	Annual benchmarking of 17 OCPs identified by WCL
	60.	Detailed Diesel auditing and benchmarking of KDH OCP
	61.	Annual benchmarking of 3 OCPs identified by SECL
	62.	Annual benchmarking of 16 OCPs identified by BCCL
	63.	Annual benchmarking of 8 OCPs identified by NCL
	64.	Annual benchmarking of 12 OCPs identified by MCL
	65.	Report on RMR Studies of Chapapur-II Colliery, Kalimati Seam, ECL
	66.	Controlled blasting and vibration study at hired patch of Dakra OCP, CCL
	67.	UCE of Recast of Tirap OCP, NEC
	68.	Assessment of capacity of all OC mines (Projection as on 01.04.16)

Regional Institute/HQ		Name of the Reports
	69.	Vegetation cover mapping of Bander Coalfield of WCL
	70.	Vegetation cover mapping of Korba Coalfield of SECL
	71.	Vegetation cover mapping of Singrauli Coalfield of NCL
	72.	Vegetation cover mapping of Karanpura, West Bokaro and East Bokaro Coalfields of CCL
	73.	Scheme for augmentation of IWSS for Khadia OCP, NCL
	74.	Scheme for Acid Mine Drainage for Gorbi Mine, NCL
	75.	Slope stability study of Bharatpur and Lakhanpur OCPs, MCL
	76.	Slope stability study of Khadia OCP, NCL
	77.	Top soil management of Ashoka OCP, CCL
	78.	Diesel auditing and benchmarking of Nigahi OCP
Environment Management Plan		
Form-I		
RI-III	1.	Sayal 'D' OCP
	2.	Karo OCP & Washery
	3.	Konar Expn. OCP & Washery
	4.	Karo Washery
	5.	Konar Washery
RI-IV	1.	Amalgamated Yekona I & II
	2.	Amalgamated Pauni II & III
	3.	Adasa UG to OC
	4.	New Sethia OC
RI-VI	1.	Jayant OCP
RI-VII	1.	Jagannath Reorg. OCP
	2.	Kulda OCP
	3.	Jagannath OCP-Bharatpur OCP Reorganisation under cluster concept
HQ	1.	Ib-Valley washery at Lakhanpur, MCL
	2.	Basundhara Washery (Revised), MCL
	3.	Baroud Washery, SECL
Draft EMP		
RI-I	1.	Rangamati 'B' Block UG (Kanchanpur Sector)
	2.	Form-I & Addendum EMP of Cluster No.2
	3.	Form-I & Addendum EMP of Cluster No.12
RI-II	1.	Dugda NLW Coal Washery
	2.	Bhojudih NLW Coal Washery
	3.	Cluster-XVI (Revised)
	4.	Mahuda Washery

Regional Institute/HQ		Name of the Reports
RI-III	1.	Pundi OCP and Washery
	2.	Pichri OCP
	3.	Rajhara OCP
	4.	Konar Expn. OCP & Washery
RI-IV	1.	Form-I & Addendum EMP of Makardhokra I Expn. OC
	2.	Gokul OC
	3.	Dinesh (MKD-III) OC
	4.	Naheria UG
	5.	Bhanegaon OC
RI-V	1.	Manikpur OC
	2.	Baroud OC
	3.	Haldibari UG
	4.	Nowrozabad UG
	5.	Birshingpur UG
	6.	Meera UG
	7.	Dhanpuri UG
RI-VI	1.	Form-I & Addendum EMP of Krishnashila OC
RI-VII	1.	Form-I & Addendum EMP of Jagannath OC Expn. (6/9 Mty)
	2.	Garjanbahal OC Expn.
	3.	Siarmal OCP (40/50 Mty)
	4.	Kakudi Sand Mine (0.25 Mcum)
HQ	1.	Jagannath Washery
	2.	Ib Valley Washery at Lakhanpur
	3.	Kusmunda Washery
	4.	Karo OCP & Washery
	5.	Baroud Washery, SECL
	6.	Basundhara Washery (Revised)

2.1 COAL & MINERAL PREPARATION

CMPDI offers technology services for Coal washeries, Mineral beneficiation Plant and Modification / Modernization of existing plants. These services encompass exhaustive Laboratory studies, Techno Economics Feasibility Report, Conceptual Report, Project Planning, Construction management and wide range of R&D activities. CMPDI is equipped with ISO certified modern laboratory with latest and sophisticated equipment for carrying out laboratory scale studies. It has already handled many prestigious assignments in the field of beneficiation



of coal and other minerals against stiff competition in open market which includes-

- i. World Bank aided project "Report on Techno-economic study of coal washeries for Cement Industry" and
- ii. ADB funded project "Implementation of clean coal technology through coal beneficiation in India."

The following major works have been completed during the year 2015-16:

A. REPORTS/STUDIES.

1. Preparation of Reports on washery for Mine PRs of

- a) Amrapali Expansion (15.0 Mty), CCL
- b) Karo (7.0 Mty), CCL
- c) Sawang Pipradih (4.0 Mty) of Govindpur Phase-II OC (cost updation)
- d) Lajkura-Orient, MCL

2. Preparation of Pre-feasibility Reports:

- a) Kusmunda (25.0 Mty), SECL
- b) New Piparwar (3.5 Mty), CCL

B. Preparation of Tender Document (on e-tendering mode)

- a) Jagannath washery (10.0 Mty), MCL (Revised)
- b) Lakhanpur washery (10.0 Mty), MCL
- c) Dugda washery (RFQ & RFP) (2.5 Mty), BCCL
- d) Kusmunda washery (25.0 Mty), SECL
- e) Konar washery (RFQ & RFP) (7.0 Mty), CCL
- f) Karo washery (RFQ & RFP) (3.5 Mty), CCL
- g) Baroud washery (RFQ&RFP) (10.0 Mty), SECL

C. Preparation of Conceptual Reports

- a) Baroud washery (10.0 Mty), SECL
- b) Karo washery (3.5 Mty), CCL
- c) Dugda washery (2.5 Mty), BCCL (revision of cost estimate)

D. Preparation of Feasibility Reports

- a) Lakhapur washery (20.0 Mty), MCL
- b) Kusmunda washery (25.0 Mty), SECL

E. Tender Scrutiny

- a) Jagannath washery (10.0 Mty), MCL
- b) Lakhanpur washery (10.0 Mty), MCL

F. APPROVAL OF CONSTRUCTION DRAWINGS

- a) Madhuband washery (5.0 Mty), BCCL. Total no. of drawings approved: 140
- b) Dahibari washery (1.6 Mty), BCCL. Total no. of drawings approved: 475

G. R&D and S&T Projects

- a) Feasibility Report for the Development of Technology to Produce Clean Coal from High Ash & High Sulphur Indian coal.
- b) Implementation of "Dry Beneficiation of Coal using Radiometric Technique (Ardee-Sort)" under CIL R&D scheme at Madhuband washery, BCCL is at advanced stage and likely to be commissioned soon.

H. Other jobs

- a) Assistance to PSEB in evaluation of Performance Guarantee Test (PGT) during load trial run of new washery installed at North Karanpura area of CCL
- b) Ascertaining Optimum Grade Mix of Raw coal feed to BCCL
- c) Preparation of electrical specifications

and estimates for the scheme for STP for Sonepur Bazari

2.2 PROJECT APPRAISAL

1. Scrutiny and appraisal of 17 nos. of draft PRs/RPRs/EPRs during the year 2015-16 and coordination for their presentation and guidance before finalization of the reports.
2. Scrutiny and appraisal of 13 nos. of conceptual notes and coordination for their assessment for finalizing the main technical parameters before preparation of the draft PR/RPR/EPR.
3. Updation of status of implementation of ongoing projects costing more than Rs.500 crores.
4. Updation of status of formulation of PRs for XII Plan identified coal mining projects of CIL and projects identified for production in 2019-20.

3.0 UNDERGROUND MINING AND OPENCAST MINING

The following jobs were completed and are in progress during the year 2015-16

3.1 UNDERGROUND MINING

The following jobs were completed and are in progress during the year 2015-16

A. OUTSIDE CONSULTANCY JOBS (COMPLETED)

1. Revised Cost Estimates (REC) of Begunia UG project, ISP- SAIL.
2. Consultancy services for preparation of Mining Plan & Expansion Project Report for Gumgaon UG mine, MOIL.
3. Preliminary design, Tender Document & Techno-Economic Feasibility Report (TEFR) for vertical shaft at Gumgaon UG Mine, MOIL.

OUTSIDE CONSULTANCY JOBS (IN PROGRESS)

1. Preparation of DPR & Mining Plan for Indikatta-Ramnagore block, ISP, SAIL.
2. Stability analysis of permanent head-frame for Narwapahar mine, Uranium Corporation of India Ltd. (UCIL).
3. Updation of TEFR cost estimate, preparation of tender document and assistance in evaluation of bids for High Speed shaft at Balaghat, MOIL.

B. CIL JOBS (COMPLETED)

1. Revised Project Report for Natraj UG Mine, MCL
2. Design of water dam for Bogra (R-VI) seam of J.K. Nagar colliery of Satgram Area, ECL
3. Updation cost estimate (UCE) of Project Report for Piparwar & Mangadaha underground project of CCL
4. Cavability analysis report seam-V & suitable method of complete extraction of full thickness of seam, i.e. 4.80m for Jhilimili mine, Baikunthpur Area, SECL
5. Model Tender Document for Development and Operation of Underground mines of CIL through Mine Operator
6. Model Tender Documents (RFQ/RFP) for Development and Operation of Opencast mines of CIL through Mine Operator (MO)
7. Standard Price List for mining equipment
8. Report on gas survey of seam-VIB of Khairaha colliery of Sohagpur area, SECL
9. Report on Mine Capacity Assessment of underground mines of CIL
10. Preparation of Tender document for conversion of steam winder to electric drive of existing winder, Talcher Pit No.2, MCL



11. Preparation of scheme for installation of man-riding system at Seam I Incline, New Akashkinaree colliery, Govindpur area, BCCL
12. Report on Stability analysis of head-frame structures at Pandaveswar Area, ECL
13. Report on Ventilation study of Ballarpur Pit No. 3 & 4 of Ballarpur area, WCL
14. Preparation of scheme & detailed technical specifications for installation of man riding system for three mines (Amritnagar, Bansara & Jambad colliery) of ECL
15. Report on Scientific studies using numerical technologies to ascertain the safety aspect of western quarry in Manikpur OC of Korba area
16. Report on Stability analysis of permanent head-frame for Talcher colliery Pit No. 1 & 2, MCL
17. Global bid document for supply, installation & commissioning of locomotive man-riding system at Moonidih project, W.J. area, BCCL
18. Project Report for Asnapani East Side UG mine, CCL

CIL JOBS (IN PROGRESS)

1. Preparation of mine dossier & calculation of Net Present Value (NPV) as per the direction of Ministry of Coal (MoC)
2. Pressure survey and report on ventilation study at Sarpi Project, Shyamsunderpur colliery of Bankola area, ECL
3. Design of incline mouth for Incline No. 6 of Churi UG Mine, North Karanpura Area, CCL
4. Report on gas survey of Bagdeva colliery, Korba area, SECL

5. Report on gas survey of Dhelwadih colliery, Korba area, SECL
6. Scientific Study to device suitable method of mining for coal seam V (Top) & V (Bottom) for both development and depillaring for the entire existing working area of Behraband UG mine, Hasdeo area, SECL

3.2 OPENCAST MINING

The following jobs were completed and are in progress during the year 2015-16

1. Performance report against MoU parameters 2015-16:

Review HEMM machine utilization norms for all subsidiaries of CIL, in this respect, report has been submitted to CIL vide letter no. CMPDI/TS/2015/ 40/624 dated 28.5.2015 against the target date of 30th June 2015.

2. Major outside Consultancy services completed:

- i. Technical Feasibility Study for Mining of seam III and IV in West Bokaro colliery, of M/s Tata Steel.
- ii. Detailed Project Report for Ramnagar -Indikata OC (1.3 Mty), SAIL (Draft submitted on September 2015 & comments awaited)
- iii. Review of performance of major HEMM of NMDC.
- iv. Mine ability Study for 3450L and 3451L license areas (Preliminary assessment) in Mozambique for Coal Videsh.
- v. 5 Years land requirement Plan from the COD of 1st Plant of M/s- PFCCCL submitted (Part of Mining Plan assignment for Meenakshi)

3. Major Internal Consultancy services for CIL (completed jobs)

- i. FR of Samleshwari Expansion OC (20 Mty) - Recast - MCL.
- ii. PR of Kyada-Chaudhar-Gariapani Block of ECL (Final) submitted.
- iii. UCE of Recast of Tirap OCP, NEC.
- iv. Assessment of capacity and capacity utilization of opencast mines of CIL during 2014-15.
- v. Performance analysis of HEMM of opencast mines of CIL during 2014-15.
- vi. Performance analysis of Excavators and Dumpers of CIL during 2014-15.
- vii. Analysis of specific consumption of explosives, diesel and electric power of opencast mine of CIL during 2014-15.
- viii. Assessment of capacity of opencast mine of CIL – Projections as on 1.04.2016
- ix. RCE for Lekhapani OC - 0.25 Mty, NEC.
- x. Study note on 42 Cum + 240 T Shovel – Dumper combination of Gevra OC, SECL. (Ref: CMD's meet)
- xi. Study note on Mining potential in NEC command area.
- xii. Techno-economic comparison of 9 models of surface miners.

4. Quick Comments on Mining Plan and other jobs of MoC/CAG Auditors:

- i. Clarification to CAG Auditors on Coal Block valuation.
- ii. Moher / Dipside Moher-Amlohri Block- Coal quality clarification to MoC.
- iii. Reply to audit requisitions of 24 blocks send by the audit team on coal block auction.
- iv. Reply to 11 Nos. Preliminary Audit Queries by the Audit team on coal block auctions.
- v. Note on the downward revision of MP of

Sasan Power Ltd from 20 Mty to 16 Mty – (MoC).

- vi. Note on cost-benefit analysis for North of Arkhapal coal block for MoC.
- vii. UG/OC potentiality of six Geological blocks
- viii. Quick comments on Mining Plan referred by MoC: (12 Nos)

5. Other Technical Jobs/ Technical discussions /Technical Scrutiny of Draft PR/FR/RPR/ EPR's/Conceptual Note etc.

- A. Technical discussions on 14 Nos of conceptual report/note.
- B. Technical appraisal of 16 Nos of Draft PR/ EPR/RPR's etc.

4.0 ENGINEERING SERVICES

4.1 CIVIL ENGINEERING

PROJECT PLANNING JOBS

1. PR preparation/Cost Updation
2. Technical vetting of PR/RPR for various reports forwarded to this department for technical vetting by PAD throughout the year.

DETAILED DESIGN JOBS

- a. Scheme for construction of proposed 'C'-type/'D'-type quarters, Hospital, Park etc. in the residential complex at new town Rajarhat Kolkata for CIL.
- b. Structural design and drawing of type quarters -B, C &D, Office Building etc. for township under master plan in Western Jharia area.
- c. Design of Kalyan Mandap at Anand Vihar, MCL
- d. Design & drawings for 40000 Gallon overhead tank under master plan at BCCL.
- e. Planning, designing, and technical



scrutiny and comprehensive renovation cum modernization of Belpahar Training Institute, MCL.

- f. Planning, Design / Drawing, estimating and construction of CGM Office at Amlohri project, NCL.
- g. Planning, Design / Drawing and construction of Kalyan Mandap at Amlohri project, NCL.
- h. Preparation of Architectural and structural drawings for proposed Stadium & Shopping Complex of Basundara Garjanbahal and Hingula Area of MCL.
- i. Planning, Design / Drawing, estimating and construction of Office Building for CMPDI, RI-V, Bilaspur.
- j. Planning, Design / Drawing, estimating and construction of Office Building for CMPDI, RI-VI, Singrauli.
- k. Preparation of Architectural and structural drawings for 4020 units of miners quarters at different areas of BCCL.

ARCHITECTURAL JOBS

- a. Preparation of Architectural and structural drawings for Standard Quarters for MCL and Town planning for Basundara Garjanbahal and Hingula Area of MCL.

TENDER EVALUATION:

- a. Drawing Scrutiny and Supervision of Khadia CHP, Phase-II (6 Mtpa incremental).
- b. Design, Drawing and Scrutiny of Nigahi CHP PH-III & supervision.

PREPARATION OF TENDER DOCUMENT:

- a. Jayant Incremental CHP (10 MTY), NCL.

- b. Bina-Kakri Amalgamation CHP (5.5 MTY), NCL.

PREPARATION OF SCHEME/REPORT

- a. Comparative Study for Jharia Rehabilitation Project.
- b. Preparing inspection report on requirements of structural stability test of different structures of Piparwar Washery, CCL.
- c. Brief report on inspection regarding repair and maintenance of assembly hall of IICM
- d. Comprehensive scheme for setting up of GM Complex and Colony of Raigrah Area
- e. Project proposal for R&D project on Constructing Structures on Backfilled Open Cast Coal Mines: An attempt to suggest viable methodologies
- f. Preliminary Design & Estimate of Office Building for CMPDI, RI-IV, Nagpur.
- g. Preparation of scheme for townships under Master Plan in WJ Area.

STRUCTURAL ADEQUACY REPORT

- a. Structural Adequacy study of different CHP'S of Kusmunda Project, Chirimiri Area, etc under SECL.
- b. Structural Stability study of coal handling bunkers of Shobhapur, Sarni & Tawa II mine of Patharkheda Area, WCL
- c. Structural Adequacy study of Nigahi & Jhingurda CHP of NCL.

DESIGN/ DRAWING SCRUTINY

- a. Design, drawing and scrutiny of Nigahi CHP Phase-III (5 MTY), NCL.
- b. Scrutiny of design/ drawing for Khadia Phase II CHP (6 MTY), NCL.

- c. Scrutiny of drawings of Madhuband Rapid Loading system at BCCL.
- d. System design, preparation of tender document Kusunda Workshop (50MTY), SECL.
- e. Tendering, award of construction and Scrutiny of design and drawing of Krishnashila Main CHP (4 Mtpa), NCL.
- f. Tendering and Award of work, Scrutiny and approval of Design & drawing and monitoring of construction for Block-B CHP (3.5 Mtpa), NCL.



SIL0 : 4th Casting Completed



Receiving Pit & TH o1 : Shuttering of TH Wall is in progress



Central Section : Shuttering for 2nd Slab is in progress



Ground Bunker : Hopper walls casting is in progress



Western Section : Receiving Pit & TH- Concreting of TH Wall is in Progress



REGIONAL INSTITUTE-II

1. Project Report:

- a. Extended support to civil portions in 4 nos. of projects.

2. Capital Works:

- a. Establishment of Environment Laboratory at RI-II Office.

3. Revenue Works:

- a. Utilization of approved revenue budget in repair and maintenance of Office & residential buildings of RI-II.

4. Miscellaneous Works:

- a. Extended support to JRDA towards planning of Jharia Rehabilitation Programme.

REGIONAL INSTITUTE-III

1. Extended support to project planning for 9 nos. of project under CCL

2. Master planning for South Karanpura Coalfield.

3. Construction Work:

- a. Repair, maintenance works in Orla drilling camp under RI-III.

4. Preparation of tender document:

- a. Draft tender document for excavation & E&M workshop at Tapin, OCP.
- b. Draft tender document for excavation & E&M workshop at Purnadih, OCP.
- c. Detailed design & tender document for CHP at North Urimari Exp OC.
- d. Detailed design & tender document for CHP at Konar OCP.
- e. Detailed design & tender document for substation at Konar OCP.
- f. Detailed design & tender document for substation at Purnadih OCP.

5. Extending support towards CSR activities.

6. Architectural Jobs:

- a. Scheme for renovation of guest house at Dankuni Coal Complex.
- b. Architectural design for C&D type quarters (G+10) & health centre at New Coal India Complex at Rajarhat.
- c. Architectural design for Kalyan Mandap & MT Hostel at Sambalpur.
- d. Assistance for commissioning of New Coal India office cum residential complex at Rajarhat.

REGIONAL INSTITUTE-IV

1. Construction Works:

- a. Utilization of Sanctioned revenue budget (145.15 Lakhs)
- b. Utilization of Capital budget (22.3 Lakhs) for Balmikunj School Building.
- c. Extending support in exploration camp construction works in Durgapur & Murarpur Camp.
- d. Execution of 3 nos. of CSR Works.

2. Planning Works:

- a. Extended support to project planning for 18 nos. of projects under WCL.

3. Preparation of tender Document:

- a. Extended Civil support to Dinesh O/C, New Majri U/G converted to O/C and Gorul O/C CHP.

4. Detailed Design Works:

- a. Civil Structure for Umer Wagon loading house.

REGIONAL INSTITUTE-V

1. Project Report

- a. Extended support towards project

planning works scheduled in Annual Action Plan especially formulation of Gevra OCP (70MTY).

2. Construction Works:

- a. Execution of Office building work (ongoing).
- b. Execution of Korba Camp construction (ongoing).
- c. Utilization of Sanctioned Capital & Revenue budget for Civil Works.
- d. Construction of Toilets at Nagpur, Chakarbhata & Lingiyadik schools under CSR.

3. Drawing Scrutiny:

- a. Design & drawing scrutiny of Gevra In pit structures, Gevra Silo and Kusmunda Phase-I CHP.

4. NIT Preparation

- a. Extended assistance in Civil portion of NIT preparation for Kusmunda Phase-II CHP, substation for Kumsmunda Washery & 33 KV substations for Gevra, Dipika & Kusmunda.

REGIONAL INSTITUTE-VI

1. Project Report:

- a. Extended support towards project planning works for Nigahi OCP, Block-B OCP, Dudhichua OCP, Jayant OCP & Jhingurda OCP.
- b. Preparation of master plan for Singrauli Coalfield.

2. Planning Works:

- a. Preparation of Scheme (Civil Portion) for installation of Secondary Sizer in existing CHP of NCL.

3. Construction Works:

- a. Construction of Office building for RI-VI (Ongoing).
- b. Civil maintenance and repair work of RI-VI, temporary office, township and drilling camp at Singrauli.

REGIONAL INSTITUTE-VII

1. Project Report:

- a. Extended support in project planning (Civil Portion) of 4 OCP.

2. Tender Document:

- a. Preparation of tender document (civil portion) for Lakhanpur, Basundhara, Kaniha, Bhubaneshwari CHP.
- b. Preparation of tender document (civil portion) for Lingaraj field Workshop & Balram O/C workshop.

3. Construction Work:

- a. Development works in Colony, Office building & drilling camps under RI-VII.

4. Design Scrutiny:

- a. Scrutiny of Design & Drawing for CHP at Lingaraj OCP.
- b. Scrutiny of Design & Drawing for substation at Nandira.

4.2 ELECTRICAL AND MECHANICAL ENGINEERING SERVICES

Following services are provided during the year 2015-16.

4.2.1 Mine Planning (Infrastructure)

- i. CIL Projects
- ii. Non CIL Projects
 - Ramnagore Indikatta 1.3 MTY, SAIL

4.2.2 Coal Handling Plant

- Tender documents of CHPs



4.2.3 Workshop & Store

- Tender documents of Kusmunda Workshop, SECL

4.2.4 Report on FBC based Power Plant

- Tender documents of Kusmunda Workshop, SECL

4.2.5 Energy Audit and Benchmarking

- Annual Diesel Benchmarking for 76 Nos. Opencast mines of CIL.
- Detailed Diesel Benchmarking and Equipment wise fixation of diesel consumption Norms for different OCPs of CIL.
- Electrical Energy Audit & Benchmarking for various OCPs of CIL.

4.2.6 Power Supply and Distribution & Control Systems

- Augmentation of 33/6.6 kV, Jhanjra Substation, ECL
- 2x4 MVA, 33/3.3 kV Substation at Samleswari OCP, MCL
- 2x5 MVA, 33/6.6 kV Substation at Block-B OCP, NCL
- Fire Detection, Alarm Annunciation & Fire Fighting System for 4x20 MVA, 132/33 kV Central Substation at Jorabaga, Lakhanpur Area, MCL
- Shifting of 132 kV Mashauli Substation and augmentation of proposed substation, NCL.

4.2.7 Solar Initiatives

- Tender documents for
 - 80 KWp Rooftop Solar Power Plant with micro-grid system at CMPDI, RI-I Office Building at Asansol
 - 30 KWp Rooftop Solar Power Plant with micro-grid system at CMPDI, RI-II Office Building at Dhanbad

- 50 KWp Rooftop Solar Power Plant with micro-grid system at CMPDI, RI-VI Office Building at Singrauli

- Solar based street lights with LED lamps (28/30 W) for RIs of CMPDI

4.2.8 Others Reports

- Scheme & NIT for Centralised Air Conditioning Systems for NSC Hospital, Jayant, NCL
- Preparation of Scheme for Fire Fighting System for Substations at BG Area, MCL
- Centralised Air Conditioning System for CMPDI, RI-VI office building
- Illumination Survey of Amlohri OCP, NCL and Nigahi OCP, NCL
- Examination of UMPS Scheme for Electrical Winder at Talcher UG.

4.2.9 Inspection Services

- Pre-despatch Inspection Services for plant & machinery purchased by all CIL subsidiaries at the Manufacturer's Works
- Revenue earned from the services by CMPDI for the year 2015-16 is around Rs. 3.44 crores.

4.2.10 NDT (Non-destructive Testing) jobs

- Underground mines: winders, head gear shafts, cage, skip, longwall powered supports & thickness measurement of dewatering pipe range
- Opencast mines : draglines, shovels, excavators, dumpers, EOT cranes & drill machines
- CHP: Structures of conveyor gantry, feeder breakers, transfer points, drive house & crusher house.

4.3 TOWN ENGINEERING SERVICES

The services provided during the year includes:

- i. Maintenance of the buildings, viz. office buildings and residential staff quarters. Maintenance of cleanliness, clean and green environment with necessary horticulture works and maintaining the same.
- ii. Maintenance of all electrical, electronic and mechanical equipment pertaining to the office and maintaining the inventory of the same.
- iii. Maintenance of all office furniture.
- iv. Water supply management by taking-up necessary steps.

v. Power management by taking-up necessary steps to conserve and save electricity.

vi. To ensure receipt, checking and submission of proposals for payment of electricity bills, telephone bills, water bills and other statutory payments etc.

vii. Liaison works with local statutory bodies like Municipal Corporation.

viii. Operation of waste paper recycling plant.

Following are the list of completed and running works under Capital works, running repair works, special repair works and CSR works in 2014-15 in TE & CM Division of CMPDI (HQ):

Sl. No.	Name of works	Work Value (Rs. in Lakh)
COMPLETED WORKS		
1	Annual maintenance contract for Garden including maintenance of seasonal plants (Indoor & Outdoor) at CMPDI(HQ), Ranchi.	30.35
2	Construction of three rooms, toilet for boys and girls, repair works for windows, doors and distempering and painting of existing building at Birsa School, Hathia gonad and construction of concrete road at Patragonda village under CSR scheme of CMPDIL.	48.54
3	Upkeep work of CMPDI(HQ) complex, Ranchi.	72.94
4	Maintenance Contract for Civil Engineering Works for CMPDI(HQ) and NTS, Barkakana for one year.	116.43
6	Construction of two class rooms, profile sheet roofing for front verandah at Gondwana Primary School at CMPDI(HQ), Ranchi.	18.40
7	Special repair and maintenance of Documentation, Security, E&M, CIL Cell and Exploration Division at Ground floor, 1st, 2nd, 3rd & 4th floor of Old Office Building and balance portion of R&D building at CMPDI(HQ), Ranchi.	162.00 lakhs
8	Construction of two class rooms at Birsa High School premises at Hathia Gonda village under CSR activities of CMPDI.	15.54
9	Development of Sports Ground at CMPDI(HQ) complex, Ranchi.	14.39
10	Operation and maintenance of waste water treatment plant including operation and maintenance of pumps for one year at CMPDI(HQ), Ranchi.	6.14
11	Maintenance Contract for 2014-15 for electrical works of CMPDI complex, Ranchi (Residential & Non-residential both) for one year.	59.25



Sl. No.	Name of works	Work Value (Rs. in Lakh)
ON-GOING WORKS		
1	Annual maintenance contract for Garden including maintenance of seasonal plants (Indoor & Outdoor) at CMPDI(HQ), Ranchi.	30.51
2	Upkeep work of CMPDI(HQ) complex, Ranchi.	76.98
3	Maintenance Contract for Civil Engineering Works for CMPDI(HQ) and NTS, Barkakana for one year.	94.55
4	Operation and maintenance of waste water treatment plant including operation and maintenance of pumps for one year at CMPDI(HQ), Ranchi.	6.54
5	Maintenance Contract for 2014-15 for electrical works of CMPDI complex, Ranchi (Residential & Non-residential both) for one year.	64.91
6	Maintenance Contract for Mosquito control and Anti-termite treatment for residential quarters and office building in CMPDI Campus for one year.	12.70
7	Repairing of RCC chajja, lintel beams of residential multistoried at CMPDI (HQ), Ranchi.	28.03
8	Construction of Archive Building at CMPDI (HQ) Complex, Ranchi.	141 lakhs
9	Renovation and Refurbishing of RI-II, CMPDI office at Dhanbad.	142 lakhs
10	Premix carpet surfacing including repairing of damaged road inside CMPDI campus at CMPDI(HQ), complex.	20.70
11	Supply & fixing of 6 Nos. Digital Timer 24 Hrs. at CMPDI(HQ), Ranchi.	1.51
12	Supply, installation and commissioning of 40 ton capacity air-conditioning system alongwith standby of matching capacity including dismantling of complete existing AC system at ICT Division and AMC for 9 years for the proposed system at CMPDI(HQ), Ranchi.	AMC
13	Operation of waste paper recycling plant at CMPDI(HQ), Ranchi.	Departmentally
14	Rewiring of 'B' type quarter Block No. B-1 to B-36 (36 nos.) at CMPDI (HQ) complex, Ranchi.	Part-II opened
15	Overhauling of 250 KVA DG set no. 1	3.44 lakhs
16	Overhauling of 250 KVA DG set no. 3	5.57 lakhs

5.0 RESEARCH & DEVELOPMENT PROJECTS:

5.1 S&T PROJECTS FUNDED BY MINISTRY OF COAL

1.0 The R&D activity in Coal Sector is administered through an Apex body namely, Standing Scientific Research Committee (SSRC) with Secretary (Coal) as its Chairman. The other members of this Apex body include Chairman of Coal India Limited (CIL), CMDs of CMPDI, Singareni Collieries Company Limited (SCCL) and Neyveli Lignite Corporation (NLC), Directors of concerned Council of Scientific

& Industrial Research (CSIR) laboratories, representatives of Department of S&T, Planning Commission and educational institutions, amongst others. The main functions of SSRC are to plan, programme, and budget and oversee the implementations of research projects and seek application of the findings of the R&D work done.

2.0

The SSRC is assisted by a Technical sub-committee headed by CMD, CMPDI. The committee deals with research proposals related to coal exploration, mining, mine safety, coal beneficiation & utilization and also

the project proposals on mine environment and reclamation.

- 3.0** CMPDIL acts as the Nodal Agency for co-ordination of research activities in the coal sector, which involves identification of Thrust Areas for research activities, identification of agencies which can take up the research work in the identified fields, scrutiny and processing the proposals for Government approval, preparation of budget estimates, disbursement of fund, monitoring the progress of implementation of the projects, etc.

Total no. of S&T projects taken up (till 31.03.2016) - 390

Total no. of S&T projects completed (till 31.03.2016) - 314

- 4.0** Physical and financial performance during 2015-16

A. Physical performance

The status of Coal S&T projects during 2015-16 is as follows:

Projects on-going as on 01.04.2015	-	12
Projects sanctioned by GoI during 2015 -16 (Annexure-A)	-	07
Projects completed during 2015 -16 (Annexure-B)	-	01
Projects on-going as on 01.04.2016	-	18

- B. Financial status –** Budget provisions and actual expenditure are shown below:

(Rs. in Crores)

2014 -15		2015 -16	
RE	Actual	BE	Actual
17.95 (Ex NER -2.05)	16.16	18.0 (Ex NER – 2.25)	17.59

5.2 CIL R&D Projects

For in-house R&D work of CIL, R&D Board headed by Chairman, CIL is also functioning.

CMPDI acts as the Nodal Agency for processing the proposals for CIL approval, preparation of budget estimates, disbursement of fund, monitoring the progress of implementation of the projects, etc.

In order to enhance R&D base in command areas of CIL, the CIL Board in its meeting held on 24 March 2008 has delegated substantial powers to CIL R&D Board and also to the Apex Committee of the R&D Board. The Apex Committee is empowered to sanction individual R&D project up to ₹ 5.0 Crore value with a limit of ₹ 25.0 Crore per annum considering all the projects together and CIL R&D Board is empowered to sanction individual R&D project up to ₹ 50.0 Crore.

So far, 73 projects have been taken up under the fund of CIL R&D Board out of which 58 projects have been completed till March 2016. The status of CIL R&D Projects during 2015-16 are as follows:

- Projects on-going as on 01.04.2015-15
- Projects approved in principle by R&D Board of CIL during 2015-16- 03.

(Annexure- C)

- Projects completed during 2015-16- 05.

(Annexure- D)

- Projects on-going as on 01.04.2016- 10

The disbursement of fund for CIL R&D projects during 2015 -16 is ₹ 4.88 Crore.

Annexure-A

S&T Projects funded by Ministry of Coal sanctioned during 2015-16

Sl. No.	Name of the project	Implementing agencies	Approved cost (in lakh)
1	Constructing structures on backfilled opencast coal mines: An attempt to suggest viable methodologies.	Indian School of Mines(ISM), Dhanbad & Civil Engineering Division, CMPDI, Ranchi	338.32
2	Optimization of various parameters of lab scale Coal Winnowing System (Phase-II).	Central Institute of Mining and Fuel Research (CIMFR), Nagpur Unit-II, Nagpur and CMPDI, Ranchi	18.55



Central Mine Planning & Design Institute Limited

3	Techno-economic Evaluation and performance behavior of Self Advancing (mobile) Goaf Edge Supports (SAGES) (Phase-II).	Indian School of Mines(ISM), Dhanbad and M/s Jaya Bharat Equipment Pvt. Ltd (JBEPL), Hyderabad	73.27
4	On-line coal dust suppression system for opencast mines.	Centre for Development of Advanced Computing (C-DAC), Thiruvananthapuram & CMPDI, Ranchi	421.04
5	Possible implications of bioavailable iron in coal mine dust on coal workers' lung disease	National Institute of Miner's Health(NIMH), Nagpur, Priyadarshini Institute of Engineering & Technology (PIET), Nagpur, Central India Institute of Medical Science (CIIMS), Nagpur & Western Coalfields Limited (WCL), Nagpur	96.54
6	Investigation pertaining to geotechnical & hydrogeological aspects to stabilize the noncohesive granular soil/sand in the opencast mines adjacent to the major perennial river	Regional Institute-IV, CMPDI, Nagpur, Indian Institute of Technology (IIT), Mumbai and Western Coalfields Ltd, Nagpur	495.03
7	Capacity building for extraction of CMM resource within CIL command areas.	CMPDI, Ranchi & Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia	2392.79

Annexure-B

S&T Project funded by Ministry of Coal completed during 2015-16

Sl. No.	Name of the project	Implementing agencies	Approved cost (in lakh)
1	Modeling of airborne dust in opencast mines -EE/43	NITK, Surathkal	77.04

Annexure-C

R&D Projects funded by CIL approved in principle by R&D Board of CIL during 2015-16

Sl. No.	Name of the project	Implementing agencies	Approved cost (in lakh)
1	Development of guideline for prevention & mitigation of explosion hazard by risk assessment and determination of explosibility of Indian coal incorporating risk based mine emergency evacuation and re-entry protocol	ISM,Dhanbad,CIMFR, Dhanbad , S&R Division, CIL and SIMTARS, Australia.	1629.72
2	Development of a methodology for regional air quality monitoring in coalfield area using satellite data and ground observations	CMPDI, Ranchi and National Remote Sensing Centre(NRSC), Hyderabad	709.82
3	Abatement and utilization of ventilation air methane from a working underground degree-III coal mine in India	CMPDI, Ranchi and Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia	2565.76

Annexure-D

R&D Projects funded by CIL completed during 2015-16

Sl. No.	Name of the project	Implementing agencies	Approved cost (in lakh)
1	Construction of quick setting stopping in case of fire in underground mines using expansion foam agent. Project Code: CIL/R&D/1/48/11	S&R Division CIL (HQ), Kolkata, NIT, Rourkela and M/s Trans Marketing, Kolkata.	51.34
2	Green House Gas Recovery from Coal Mines and Coal Beds for Conversion to Energy (GHG2E) Project Code:CIL/ R&D/1/49/2012	CBM Cell, CMPDI(HQ), Ranchi and European Union Research Commission, London	106.81
3	Development of Rubber Compound and Repair Techniques for Trailing Cables of Underground Mining Machines. Project Code:CIL/ R&D/1/54/2013.	IIT,Kharagpur and ECL	204.07
4	Development of Dynamic GIS enabled Forward Cost Modeling (FCM) of land reclamation, control and monitoring of acid mine drainage problems in the context of continuation and expansion of the coal mining in Assam – an ICT based Environment Management Approach. Project Code:CIL/R&D/4/07/2013 .	Birla Institute of Technology, Mesra, Kolkata Campus, Southern Conclave, Kolkata.	95.68
5	Design, Develop and Demonstrate a Micro-Grid system for optimization and control of Multiple source of power supply. Project Code:CIL/R&D/1/56/2013 Impl. agency:	E&M Department, CMPDIL, Ranchi and Gujarat Energy Research and Management Institute (GERMI), Gandhinagar,Gujarat	351.30

5.3 MoU 2015-16

Following two R&D projects were kept under MoU of 2015-16 of CMPDI:

1. Design, Develop and Demonstrate a Micro-Grid system for optimization and control of multiple source of power supply – For excellent rating, performance evaluation report of solar plant was required to be submitted by 31st July. 2015.

Achievement:

The solar photovoltaic plant has been erected and commissioned on the roof tops of CMPDI office buildings. The total installed capacity of the plant is around 191kW. Two types of technologies, one with string inverter and another with micro inverter have been adopted in installing the plant. Under this project, conventional grid (utility supply) clubbed with solar PV system and DG sets through grid interactive inverters to feed to internal grid (CMPDI) whenever utility grid (JSEB) supply is not available.

Report on performance evaluation of solar plant has been submitted by E&M Division, CMPDI vide letter No: GM (E&M)/808 dated 29.06.2015.

2. Development of guidelines to predict distance between toe of the Shovel-Dumper dump and that of Dragline dump with consideration of safety and economical design of both Shovel-Dumper dump and Dragline dump – For excellent rating, determination of optimum distance between shovel-dumper dump and dragline dump of 8 dragline mines was required to be completed by 15th Nov.2015.

Achievement:

Under the project, so far, the study has been conducted in followings eight opencast mines of CIL viz. Sasti OCP, Dudhichua OCP, Khadia OCP, Jayant OCP, Bina OCP, Nigahi OCP, Amlori OCP, Ghugus OCP for determination of geo-engineering

parameters for development of guidelines to determine the optimum distance between toe of dragline dumps and Shovel-Dumper-Dumps. Based on the analysis of geo-engineering data was generated in above mines.

A detailed report on “Determination of optimum distance between shovel-dumper dump and dragline dump of 8 dragline mines” for Jayant, Bina, Nigahi, Dudhichua, Khadia and Amlori OCPs of NCL and Sasti and Ghugus opencast projects of WCL has been submitted by BIT Mesra vide letter No: Civil & Env. Engg Dep./30 dated 16.10.2015. Geo-engineering data collection from remaining opencast projects of CIL having Dragline deployment are in progress for further study.

6.0 LABORATORY SERVICES

6.1 Chemical Laboratory

During the year 2015-16, characterization of coal was carried out for borehole coal cores from 34 nos. of blocks from 15 coalfields. A total of 9426 m coal core were processed and 30975 samples was analysed upto March 2016. This also includes the coal samples from Northern Khar block, Mokokchung district, Nagaland (DGM, Nagaland).

Chemical analysis for 25 nos GR was monitored and the results were submitted for preparation of GR.

Status of Sampling Shed Renovation & Equipment procurement

- Renovation of Sampling Shed has been completed.
- 1 no of Jaw Crusher and Pulverizer has been supplied and is to be installed.
- 2 nos of Proximate Analyser and Bomb Calorimeter (for new Labs at RI-V and RI-VII) have been supplied and are to be installed.

6.2 Coal Petrography Laboratory

During the year 2015-16, characterization of

coal was carried out for borehole coal cores from 28 nos. of blocks from 19 coalfields. A total of 637 nos. of samples were analysed for Maceral determination and Reflectance study including the coal samples from Northern Khar block, Mokokchung district, Nagaland (DGM, Nagaland).

One Petrographer of this laboratory has been accredited by International Committee for Coal and Organic Petrology (ICCP). This certification qualifies the CMPDI's petrographer to undertake any kind of petrographic analysis at an international level.

Status of Equipment procurement

1. Scanning electron microscope has been installed.
2. Advanced polarizing microscope has been installed.
3. Point counter has been installed.
4. The file for X-Ray Diffractometer was re-tendered in August. Report of Technical Committee has been submitted to MM Deptt.

6.3 Coal Preparation Laboratory

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

- a. Bore Core Coal Samples- 40
- b. RoM Coal Samples - 5
- c. Determination of swelling index of the sample received from chemical Lab- 49

6.4 Coalbed Methane (CBM) Laboratory

CBM Laboratory established at CMPDI has

enhanced its capacity and added additional facility of Automatic Porosimeter cum Permeameter (Make Vinci Technologies (France) to generate producibility data on CBM recovery.

CBM Lab has carried out generation of CBM specific data generation in 8 boreholes & Shale gas specific data generation in 5 boreholes during 2015-16. Relevant studies like Adsorption Isotherm (AI) studies for 29 numbers of coal samples, Total Organic Carbon (ToC) analysis for 116 number of Shale samples have been completed. Further, Analysis of 969 mine air samples received from different collieries of CCL and 29 mine survey sample analysis of SECL have been completed and results submitted.

6.5 Mining Laboratory Services

Rock Mechanics / Rock Testing

1. Tests have been conducted for Physico-mechanical properties on drill core samples of 3120.00 mm.
2. Report on results of Physico-mechanical properties of one borehole of Ghughra Block, Sonhat Coalfields, SECL

Strata Control Studies

1. Report on study of Rock Mass Rating (RMR) / specific gravity/ cavability study submitted for 12 mines / seams.
2. Rock tests on roof rock samples (21 Nos.) for determination of strength properties, slake durability index and density for RMR study.

7.0 ENVIRONMENTAL SERVICES

7.1 EIA / EMPs

During the year 2015-16 Environment Department prepared a total of 16 nos. of Form-1 and 34 nos. of Draft EMPs.

7.2 Environmental Monitoring of Air, Water and Noise

Once MoEF accords the environmental clearance 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.

During the year 2015-16, environmental monitoring of 467 projects/establishments of CIL (ECL-107, BCCL-86, CCL-72, WCL-81, SECL-83, NCL-13 and MCL-25) were carried out through eleven environmental laboratories located at Asansol, Dhanbad, Nagpur, Bilaspur, Bhubaneswar, Kusmunda, Hasdeo, Jayant, Talcher, Ib Valley and Ranchi.



Analysis of Water Samples at Environment Lab

7.3 Accreditation to CMPDI as EIA Consulting Organisation

CMPDI has been re-accredited as EIA Consulting Organisation by Quality Council of India (A ministry of Environment & Forest's designated agency) for Mining of Minerals including Opencast/Underground mining sector, Thermal and Coal Washeries sector in 2015-16.

7.4 Accreditation of CMPDI Environmental Laboratory by NABL

Environmental Laboratories of CMPDI (HQ), RI-IV & RI-V have been accredited by National Accreditation Board for Testing & Calibration of Laboratories. (NABL). Surveillance assessment by National Accreditation Board for Testing & Calibration of Laboratories. (NABL) done during the year.



Certificate of accreditation of Env. Laboratory, CMPDI (HQ)

7.5 Registration for OHSAS-18001-2007 of CMPDI Environmental Laboratory

Certificate of Registration for OHSAS-18001-2007 awarded to Env Laboratory, CMPDI by Certification International (CI)



Certificate of Registration for OHSAS-18001-2007

7.6 Establishment / Upgradation of Environmental Laboratory

Environmental laboratory, Regional Institute-II, Dhanbad have been established in 2015-16



A View of Environment Lab at CMPDI, HQ

7.7 STP/AMD/IWSS for Coal Projects

The following schemes are prepared during 2015-16.

- One Scheme for Sewage Treatment Plant (STP) for Sonapur-Bazari OCP of ECL
- One scheme for Acid Mine Drainage (AMD) for Gorbi Mine of NCL
- One scheme for Integrated Water Supply

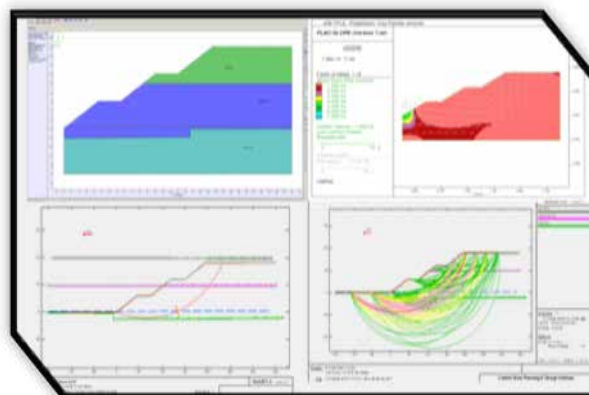
Scheme (IWSS) for Khadia OCP of NCL

7.8 Quick Comments on Mine Closure Plan for Coal Blocks sent by MOC to CMPDI

Quick comments on 28 nos. of mine closure plans were prepared and sent to MOC during the year.

7.9 Slope Stability / Soil Erosion Control Studies

Requirement of slope stability study for OC mines and the requirement of soil erosion control study is one of the conditions of the environmental and forestry clearances issued by Ministry of Environment & Forests, Government of India. Accordingly, 9 nos. slope stability study and determination of ultimate slope angle of high wall were completed.



Slope Stability analysis of OB Dump at Pimlegaoon OCP using FLAC & GALENA

Besides, 3 nos. of soil erosion control studies of Coal projects and 1 nos. of Top Soil Management of Coal project were also completed.

7.10 Preparation of INDC (Intended Nationally Determined Contribution) for Paris Convention

CMPDI assisted Ministry of Coal in preparing Intended Nationally Determined Contribution (INDC) for the coal sector. This input was part of the overall INDC report prepared by Ministry of Environment and Forest and Climate Change (MOEF&CC) for submission to COP-21 held in Paris in

Nov-Dec, 2015. CMPDI also assisted MOC in giving input for the Biennial Updated Report (BUR) prepared & submitted by Govt. of India. CMPDI is taking action on development of CBM/CMM for reducing GHG emissions.

7.11 Celebration of World Environment Day

The World Environment Day was celebrated on 5th June, 2015 at HQ & RIs. A number of programmes viz. drawing competitions for children, quiz competition, plantation programmes and guest lecture were organized to create awareness amongst employees of CMPDI.



Drawing Competition for children held on 5th June, 2015

8. INFORMATION & COMMUNICATION TECHNOLOGY

In addition to providing in-house support, ICT Division of CMPDI has been extending consultancy services to CIL and its Subsidiaries. Some of the major jobs done during Financial Year 2015-16 are:

1. Web enabled on-line Performance Management System (PMS): The system is developed for On-line entry goal setting by executives and acceptance by the reporting officer in the beginning of the financial year. This system will also facilitate half yearly review and annual

review based on the achievements reported by the executive. This rating for the goals set along with the rating for Personal Qualities & Special Achievement will be used to determine the final score of the executive performance.

2. Development and implementation of Human Resource Information System (HRIS) for all executives of Coal India Limited, which include modules of Online Transfer Application, Mentor-mentee, K-mining, Employees suggestion, family details, CMPF, CMPS, Gratuity share details, Experience and Skill Set, Learning, apart from EIS which is already developed and implemented.

During financial year 2015-16 Manpower report (Company-wise, Discipline wise Grade-wise, Sanctioned Strength, Working Strength, Vacancy position) generated using EIS has become the accepted reporting mechanism in CIL. This along with the Retirement Profile is being used for carrying out the Manpower Planning exercise at CIL.

3. Web enabled On-line recruitment application portal has been developed for Eastern Coalfields Limited (ECL), Sanctoria, Central Coalfields Limited (CCL), Ranchi Western Coalfields Limited(WCL), Nagpur and South Eastern Coalfields Limited(SECL), Bilaspur. The same portal is also extended to CMPDI. This is tool for Recruitment Division to accelerate the direct recruitment process for non-executive employees governed by NCWA.

Online recruitment, e-recruitment or web based recruitment is the use of On-line technology or the internet to attract candidates, searching for the talented candidates and aid the recruitment process.



4. Vigilance Clearance System/Vigilance Monitoring System for CIL and subsidiaries has been developed and implemented.
5. Development and implementation of on-line web enabled Annual Property Return system for all executives of Coal India Limited for the year 2015.

This is extended to non-executives under Lokpal and Lokayukta Act.
6. CMPDI is maintaining the website of Mahanadi Coalfields Limited on CMPDI Server.
7. Portal for coal allocation to power consumers (FSA) has been created for Northern Coalfields Limited.
8. Online Bank card rate system for CIL has been developed. This system facilitates banks to upload their quoted Interest rates for deposits for the scrutiny of CIL.
9. Online Feedback portal for Corporate Social Responsibility (CSR) for Eastern Coalfields Limited.
10. e-Office (developed by NIC) has been implemented successfully on pilot basis in CMPDI.

Enhancement of Infrastructure of CMPDI

1. Internet Leased Line Bandwidth capacity is enhanced from 34 Mbps to 100 Mbps.
2. MPLS Bandwidth at Head Quarters is enhanced from 2 Mbps to 10 Mbps and at RIs from 1 Mbps to 4Mbps.

8.1 INFORMATION MANAGEMENT SYSTEM

In context to the above, the different activities/jobs pertaining to the publication department is as follows:

1. **Publication of Minetech and Deshkal Sampada**– 5 issues (one issue additional to the targeted 4 issues) of our in-house

magazines 'Minetech' and 'Deshkal Sampada' have been published during the year. This includes editing, DTP work, layout and publication of the magazine.

2. **Dispatch of magazines**– Dispatch of approximately 18000 copies of both the magazine to different places such as MoC, CIL & subsidiary HQs and units/mines etc. of CIL. Efforts have also been taken to speedup dispatches.
3. **Publication of book**– Publication of book titled 'A Handbook on dragline dump profile of surface coal mines of India' has been done and publication of book titled 'Handbook on coal Petrology' is under process.
4. **Outsourcing of printing job**– Outsourcing of printing of 4 issues of Minetech & Deshkal Sampada done successfully through e-tender in order to squeeze the delay in printing and to improve the overall get up and print quality of magazines. The printing cost has also been reduced to Rs. 7,56,000/- annually against Rs. 22-24 lakhs (approximate cost) when printed in CCL press at their departmental cost (B/W printing). Now Deshkal Sampada is having fully colored pages & Minetech having partially colored pages on Art paper.
5. **Sale of Books**– Action has been taken for sale of books worth Rs 34 lakhs lying in Publication deptt store to various subsidiaries of CIL for which letters have been sent under signature of Director (T/ES) to DTs of subsidiaries of CIL. In this connection competent approval has been obtained for intercompany transaction of the price of books sold so as to simplify the sale process.
6. e-mail of young executives of CIL are being obtained so that they may be informed

to see the soft copies of our technical magazine 'Minetech', which is uploaded on CMPDI/CIL website under 'e-library'.

8.2 VIGILANCE

1. Slogan Writing Competition for employees and their family members & Quiz Competition for employees were held. A talk was delivered by CVO on the theme of this year of Vigilance Awareness Week i.e. "Preventive Vigilance as a tool of Good Governance". Apart from this, a debate was organized in Cambrian Public School, Kanke Road, Ranchi during this occasion and a Speech Competition was held in Birsa Uchch Vidyalay, Hathigonda.
2. In CMPDI 9 surprise checks have been made and 20 APRs have been scrutinized at HQ / RIs.

9.0 SPECIALISED SERVICES

9.1 GEOMATICS

Geomatics Division provides services in the field of remote sensing and surveying for land reclamation monitoring, OB measurement, vegetation cover mapping, DGPS survey, land use mapping, coal mine fire mapping, topographical survey, underground correlation survey etc.

9.1.1 Monitoring of OC mines through Remote Sensing

CMPDI has introduced satellite surveillance for land reclamation monitoring of all the opencast mines from the year 2008-09. Land reclamation monitoring of 50 numbers of opencast projects having more than 5 million cu.m. capacity (coal+OB) and 37 OC projects producing less than 5 million cu.m. (coal+OB) have been completed based on high resolution satellite data during the year 2015-16. Monitoring of land reclamation status in larger capacity mines (\rightarrow 5 mcm) are carried out regularly on annual basis and smaller mines (\leftarrow 5 mcm) at three years interval.

9.1.2 Vegetation cover mapping

2015-16 for assessing the regional impact of coal mining on land use/vegetation cover in the coalfields.

- Karanpura
- East Bokaro
- West Bokaro
- Korba
- Bander
- Singrauli

9.1.3 Land use/cover mapping

Land use/cover mapping of core and buffer zone of 12 projects of CCL, MCL and WCL have been completed for generating baseline information for Environmental Management Plan.

9.1.4 Mapping of unauthorized settlements in Singrauli Coalfield based on high resolution satellite data.

Identification of built-up structure present before notification of land acquisition in Jayant, Dudhichua, Bina-Kakri and Block-B projects of Singrauli Coalfield based on high resolution satellite data.

9.1.5 Topographical mapping of Coalfields

Topographical mapping of 27 major coalfields of CIL on 1:50000 scale with 2 meter contour interval based on remote sensing technique is under progress in collaboration with Survey of India. Airborne data for all the coalfields have been acquired and data processing is under progress.

9.1.6 OBR measurement

CMPDI has been entrusted with OBR check measurement in all the outsourced patches of CIL as third party agency. Departmental OBR measurement of 44 OCPs in all the subsidiaries as well as outsourced OBR measurement in 134 patches have been done during the year 2015-16.

9.1.7 DGPS Survey of forest boundary

As per the latest guidelines of MoEF,



Geo-referencing of the forest land to be acquired for mining/ other purposes is to be surveyed using DGPS and shape file has to be submitted along with the application submitted for stage-I forest clearance. DGPS survey of forest land in 43 (14 in CCL, 4 in ECL, 24 in SECL, 1 in NCL) coal projects have been completed during the year for forestry clearance. Geo-referencing for forest land for 2 projects of Railways and one road of NEC, also completed.

9.1.8 Geo-referencing of leasehold boundary & overlaying on cadastral map & satellite data

State Govt. of Chhattisgarh & Madhya Pradesh directed SECL for georeferenced coal mine lease boundary of all the leases. Geo-referencing of mine leasehold boundaries and overlaying of the same on digital cadastral map and LISS-IV + CARTOSAT-II satellite data have been carried out for 6 mining leases of SECL during year 2015-16.

9.1.9 Satellite based 'Integrated Water Resource Management in Kamptee Coalfield' for effective utilization of mine water was carried out during year 2015-16.

9.1.10 OB dump survey

OB dump survey for all the OC mines of Northern Coalfield Ltd. have been taken up by CMPDI for assessment of dump slope and overall height to assure stability of the dumps during the year 2015-16

- Dragline OB dump survey in Nigahi, Dudhuchua and Krishnashila OC mines and measurements of overall height and slope of two external OB dumps of Amlohri, NCL were carried out.

9.2 BLASTING

CMPDI has developed technical expertise and capabilities to render value added services in the field of controlled blasting and vibration study, testing of explosives and accessories, fragmentation assessment and

improvement study for gainful utilization of HEMM. It has also technical niche in solving Intricate Blasting Problems viz. assimilation and application of new technology/concept, cast blasting, induced caving by blasting, blasting in hot strata, structural demolition etc. In addition, R&D/S&T projects related to blasting domain and funded by CIL R&D Board are also under implementation for improvement of production, productivity & safety in coal mines.

Blasting Cell of CMPDI is equipped with the state-of-art equipment viz. High Speed Camera, Data Trap-II for in-the hole VOD measurement, fragmentation assessment and measurement by WipFrag software, Blast simulation by JK Simblast and High frequency Oscilloscope with high sampling rate for carrying out explosives and accessories testing.

Technical services rendered to different subsidiaries of Coal India Limited & outside agencies during 2015-16:

1. Controlled Blasting & vibration study – 19 mines of BCCL, CCL and MCL.
2. Optimization of blast parameters and improvement of Powder factor study – 43 mines of BCCL, CCL and MCL.
3. Random Sampling and Testing of explosives and accessories – In mines of CCL, BCCL, MCL, WCL, NEC.
4. Performance evaluation of explosives & accessories supplied by various manufacturers to the mines of Nayveli Lignite Corporation.
5. Scientific study of the effect of UG blasting at the surface structure lying above BSI, Kargali UG, B&K Area, CCL.
6. Introduction of SME in 9 (nine) mines of CCL, ECL, SECL & WCL.

9.3 MINING ELECTRONICS

Mining Electronics Division of CMPDI

renders services in preparing Feasibility Reports, Detailed Design Reports and Tender Documents for establishing communication network, Tele monitoring 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 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.

9.3.1 Preparation of Reports/Schemes/NIT

1. Draft NIT for Environmental Tele monitoring System for Mine No.4 of Orient Area of MCL has been submitted.
2. MOC S&T Project on – “On-line coal dust suppression for Open cast Mine”- is approved for Ashoka opencast mine, CCL.
3. MOC approved S&T Project on “Development of Tele-Robotics and Remote Operation Technology for U/G Mines”- Field trial at Khottadih Underground Mine of ECL is in progress.
4. Chapters on Electronics & Telecommunication for 17 Nos. of U/G and OCP for inclusion in Project Reports of different subsidiaries of CIL and outside agencies have been prepared.

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

1. Repairing of HEMM cards -228 Nos.
2. Repairing & Calibration of Methanometers – 27 Nos.

9.4 COAL TECHNOLOGY

The Chemical and Petrographic unit of CT& Lab Division is equipped with conventional and imported state-of-art equipment to carry out complete characterization of coking and non-coking coal for their

downstream utilization.

Systematic 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.

NABL Accreditation

1. The Lab has submitted application for NABL accreditation.
2. Training to all the personnel has been imparted in preparedness for NABL.

Special Achievement

A book titled ‘Handbook of Coal Petrography’ is under publication.

9.5

MANAGEMENT SYSTEM CONSULTANCY

MANAGEMENT SYSTEM CONSULTANCY FOR CIL & ITS SUBSIDIARIES:

Over the years, CMPDI has expanded its capabilities in the field of consultancy service for implementation of the various management systems, like ISO 9001-Quality management systems, ISO 14001-Environmental management systems, OHSAS 18001-Occupational health & safety management system, ISO 27001- Information security management system, ISO 50001-Energy management systems, ISO 17025-General requirements for the competence of testing and calibration laboratories.

CMPDI provides consultancy services for all Management System standards applicable to the coal industry by facilitating the creation and documentation of management systems, providing training

and auditing support, implementation, certification support and post certification support, etc.

Being the nodal setup for all such work in CIL, CMPDI has facilitated all the subsidiary companies to achieve the certifications for these management systems. As on 31/03/2015, a total of 105 units of different subsidiaries of CIL have certifications for the international standards, like, ISO 9001, ISO 14001, OHSAS 18001, ISO 27001, ISO 17025 and SA 8000. Besides these, two subsidiaries, MCL & NCL are certified for companywide Integrated Management System (IMS integrating ISO 9001, ISO 14001 & OHSAS 18001).

DURING 2015-16:

During the year the CMPDI has facilitated CCL, BCCL & ECL in implementing a companywide Integrated Management System (IMS) conforming to ISO 9001, ISO 14001 and OHSAS 18001 standards. In this context, IMS manuals like the Management, Operational and Maintenance Manuals were prepared by CMPDI for these subsidiaries. Support and guidance in the form of draft NITs were provided to these three subsidiaries for the selection of third party certification body. Post certification support and guidance were provided to the other subsidiaries of CIL.

As a part of MOU for the year 2015-16, RI-1, 2 & 3 were successfully implemented and provisional certified for ISO 27001:2013, an Information Security Management System. Two of our Environmental Laboratories at RI-4, Nagpur and RI-5, Bilaspur were also provisionally certified for OHSAS 18001:2007. The original certification will be received later.

FUTURE PLANS:

The consultancy work for implementation

of ISO 9001(QMS) and ISO 50001(EnMS) at our Corporate headquarters at Rajarhat, Kolkata was started. The drafts manuals were prepared by us and have been sent to CIL for review and comments. The implementation has already started with two training sessions at CIL HQ on the two standards.

The international standards ISO 9001, ISO 14001 were revised in 2015 and OHSAS 18001 is going to be replaced with a new ISO standard i.e. ISO 45001 in October 2016. Considering the requirements of these new revisions, all the manuals of all the subsidiary companies of CIL will have to be re-written. This job is expected to be started from January 2017."

10.0 MATERIAL MANAGEMENT

A. The activities of MM Division may be categorized as under:

Sl. No.	Description	Total value (in lakhs) 2014-15	Total value (in lakhs) 2015-16	Increase (in %)
1	Total Value of Supply orders	4187.00	5397.25	28.90
2	Supply order for Capital Goods	2935.00	4062.49	38.41
3	Utilization of Capital Budget	2685.00	3621.00	34.86
4	Disposal	128.77	109.76	(-)14.76*

*In spite of the fact that the disposal was substantial in the last Financial Year 2014-15, even then the disposal target of Rs. 1 crore has been exceeded.

B. Special Activities:

- The tender process for procurement of goods has been successfully switched over to the new system of CIL NIC Portal. Even reverse bidding for tender valuing Rs. 1.00 crore & above has been introduced successfully.
- Hydrostatic Drill has been procured successfully through competitive bidding at a very economical lower price than the last price.

- iii. The procurement of 6 Nos. of Terrestrial Laser Scanner System has been materialized and instrument has been successfully commissioned for use by Geomatics Department.

10.1 E-PROCUREMENT & CONTRACT MANAGEMENT

ACHIEVMENTS OF e-P&CM DIVISION DURING FINANCIAL YEAR 2015-16

- CMPDIL was appointed as consultant by the subsidiary companies of CIL viz. SECL, CCL and BCCL for finalization of the bid documents for tenders related to construction of Washeries in their command areas like Kushmunda and Baaroud (SECL), Dugdhah (BCCL) and KaroandKonar(CCL) on BOM/ Turn-key basis. The mandate was for designing a module for finalization of tenders through electronic mode. The existing module available on the system does not have any provision for e-tendering of coal washeries on BOM or Turn-key basis. The Technical Parameter Sheet (PTS) and Bill of Quantity (BOQ) format was specially designed by this department in consultation with CMP division for obtaining information in a structured format and total Cash out flow based on yield percentage quoted by the bidders. It is pertinent to mention here that such type of tenders through electronic media has been developed by CMPDI for the first time. After discussion with the respective companies, the module has been finalized and submitted to them for further action at their end.
- In addition to preparation of TPS and BOQ for the subsidiary companies of CIL, CMPDIL has also provided

training on creation of TPS, BOQ and on e-tendering methods to the executives of the respective companies and has assisted in creation and uploading of the tenders related to the afore mentioned washeries.

- The existing technical template and BOQ for procurement of various types of machines, equipment like PC and its peripherals, passenger lifts, Terrestrial Laser Scanners, DG Sets, Electronic Total Stations, Plotters and Scanners etc. have been customized as per new version (Version-3) of BOQ to suit the specific requirement of the company. Additionally, TPS and BOQ have been prepared for hiring of consultants for study of Underground Coal Mines through e-tendering.
- The customization were essential to enable the system to evaluate the prices which include comprehensive annual maintenance contract, buy back and calculation of NPV through discounted cash flow method. This facilitated preparation of system generated comprehensive statements alongwith the status of the firms based on their quote.
- CMPDIL has successfully introduced online receipt, auto refund and reconciliation of Earnest Money Deposit (EMD) for tenders being uploaded on CIL portal. The new module will help in minimizing paper work, ensuring least human intervention and earlier refund of EMD to the unsuccessful bidders.

11.0 HUMAN RESOURCE DEVELOPMENT

During the year 2015-16, exposures were given to CMPDI employees in the following major areas:



Central Mine Planning & Design Institute Limited

Major Area	STC	IICM	External	Foreign	Total
Managerial	242	105	101	1	449
Technical/Functional	422	15	128	10	575
Cross Functional	114	07	19	0	140
Total	778	127	248	11	1164

Against the target of 20 executives to be trained in Mine Planning Software under the MoU of CMPDI for 2015-16, 75 executives have been trained.

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

Foreign training

During the year 2015-16, total 11 nos. of executives from CMPDI had visited foreign countries for attending Seminars / Conferences / Trainings.

External training

Every year quite a good number of executives are being sent to different institutions / places for attending Training, Conference, Workshop, Symposium etc. This year 248 nos. of executives and non-executives have attended programmes at different places in India. Nominations are generally made by the Head of the Divisions of HQ / Regional Directors of Regional Institutes and approved by CMD / Director as per the need of the company.

Some of the topics on which executives have attended the Training, Workshop, Seminar, Conference etc. at external organization are listed below:

1.	Development Program For Executive Secretaries ,Personal Assistants & Officers Staff
2.	Geominetech Symposium On New Equipment-New Technology Management
3.	National Seminar On " Enhancing Coal Production", "Sankalp Committed On Excellence", "Envt Delegation - Challenges & Remedies", "Recent Practises And Innovation In Mining Industry" And "Achieving Organizational Excellence Through Innovation & Motivation"
4.	Managerial Leadership & Team Building Program
5.	Environmental Impact Assessment : Challenges In India & Way Forward Organised By Moef & Cc

6.	Seminar On "Emergency & Disaster Risk Reduction Inindustry", "Asansol Branch Of Eirc Of Icai" And "Global Technologies & Challenges Of Bulk Loading In Trains & Trucks".
7.	Risk Based Internal Audit For Effective Control
8.	Strategic Mgt For Business Excellence
9.	Certificate Course In Competition Law
10.	Professional Development Program On Drilling & Blasting Technologies And Its Application
11.	Workshop On "Csr", "Vigilance Role, Function & Responsibility", "Solar Power Professional" "Technical User On Rock Eval, 6 Analyzer", "Role Of Coal Petrography Industrial Utilization Of Coal Particularly In Steel & Power Sector", "Effective Procurement", "Women Participants "Off Grid Solar Photovoltaic Energy System", "Ifirs Related To Coal Industries", "Productivity Orientation Of Trade Unions" And Apex Workshop On Health, Safety And Environment In Indian Industry.
12.	Certified Training On Effective Implementation & Internal Audit of Iso/lec
13.	Switchgears-The Silent Sentinels Of Electrical Powers System.
14.	Asci Of Inventory Management
15.	International Conference On Integrating Climate,Crop, Ecology.
16.	Basic Training For Cmpdi Personnel On Assembly Of Drill Max Model
17.	Training At Mis Kores Hydrostatic India Ltd
18.	6Th International Mining , Exploration Mineral Processing Technology , Metals & Machinery
19.	2 Day Training On Blended Cement In Concrete Construction
20.	Version 3 Of Qci Scheme And Sms Version
21.	Conference On Safety & Health Management System To Improve Productivity In Mine
22.	National Ca Conference For Chartered Accountants
23.	Development Program For Ultimate Personal Assistant Office Secretary & Office Staff
24.	Short Term Course On "Rock Mechanics & Ground Control" And "Surface Mining Haul Road And Off Highway Trucks"
25.	Residential Training Program On Coal Preparation Principles And Practises
26.	Ground Water Resource Estimation, Ground Water Quality, Contamination & Remediation And Mathematical Modelling Of Ground Water System.
27.	Lab.quality Mgt And Internal Audit As Per Iso-17025
28.	Advance Mgt Program
29.	Training Program On Air Quality Assessment, Prediction And Control For Industrial Areas
30.	Paper Presentation In 6Th Asian Mining Congress 2016
31.	Ambient Air And Stack Emission Monitoring & Mgt
32.	2Nd National Conference On Mgt Of Modern Libraries
33.	Project Appraisal Consultants

34.	Internal Audit Of Iso/lfc/17025 Lab Mgt System & Nabal
35.	Role Of Gen.next Mission 1Billion Tonnes
36.	37Th Annual Convention Seminar & Exhibition Geophysics
37.	Advancements In Blasting Technology And Mine Economics
38.	Vigilance Administration & Disciplinary Action
39.	Revolutionary Supply Chain Strategies For Sustainable Compaitive Advantage
40.	Banglore International Exhibition Centre
41.	Surface Mining Haul Road An Off Highway Truks
42.	Training Program On Project Appraisal Consultant
43.	Industry Institute Interaction
44.	Advance Geophysical Methods For Rock Modelling & Monitoring
45.	Program For Mt(Cd)
46.	11Th International Conference & Exposition"Jaipur 2015 Of Society Of Petroleum Geophysics India.
47.	Three Days Seminar Cum Workshop On Modern Methods Of Chemical Analysis-Future Trends.
48.	16Th Esri India User Conference
49.	Infocom-2015
50.	Eia/Emp Preparation Of Ecology & Biodiversity (Eb) And Soil Conservation (Sg)
51.	43Rd National Convention Of Company Secretaries
52.	2Days National Conference On "Cma" Factor Of Value Addition In Power & Mining Sector.
53.	6Th World Petro Coal Congress And Expo
54.	2Days World Energy Council Global Worshop
55.	3 Day Training Program On Availability & Management Of Water Resources Near Mining & Industrial Areas
56.	12 Weeks Training Program On Geospatial Technology And Its Application
57.	Occupational Health Safety & Envt
58.	Training Program For Mt(Cd)Community Development Discipline 3Rd Batch
59.	Executive Development Program
60.	Housing For All Using Pretab Options Precast Rcc Constructions By Hindustan Pretab Limited
61.	Training On Case Study(Methodology Case Writing)
62.	All India Seminar On" Advance In Mine Transport System"
63.	Eia/Emp For Mining Project
64.	Management Development Program
65.	6Th Asian Mining Congress & Exhibition
66.	Presenting & Publishing The Technical Paper At 6Th Asian Mining Congress & Exhibition
67.	4Th International Conference On Thermo- Mechanical Simulation And Processing Of Steels

Training at IICM

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

At IICM, 127 numbers of executives have been trained in 2015-16.

Training at Staff Training College

Training of non-executives and CMPDI specific training of executives are being organized at STC. A total of 778 executives and non-executives have attended training, workshop etc. at STC during 2015-16.

Apart from the regular Training Programmes, such as: Technical Skill Development Program (TSDP) for various discipline (Mining, Excavation, Geophysics, Exploration, Civil, E&M etc.), special technical program on "Minex Software" was also organized for the executives at STC, CMPDI as per the need of the company.

Major areas of Training / Workshop were the following:

1.	Technology Awareness Program For Management Trainees(Excvn) And (E&M) Of Cil
2.	Organising Culture Building Initiative
3.	Stenographer Orientation Trg Program Newly Recruited
4.	Hindi Workshop, Hindi S/W And Eoffice Training
5.	Ets Training 1St Phase
6.	Training On E-Office Program
7.	Trg On Online Receipt, Auto Refund & Reconciliation Of Emd On Mcl Portal
8.	Iso 27001, Isms And Awareness Program Of Iso27001
9.	Minex Software
10.	Hiv Aids
11.	Tap Environment, Civil, For Mt(Geo) And For Mt(Mm)
12.	Contract Labour Mgt
13.	Minex Software
14.	Training On Terrestrial Laser Scanner And Liscad.
15.	Training For Promotion From Non-Exe. To Executive



16.	Tsdp For Mt's Mining And Mt's(E&T)
17.	Retirement Planning
18.	2nd Phase Training on Topcon Make Ets

Training at CMPDI for students of different Institutions

As a Corporate Social Responsibility, training of the students of various institutions are being organized by HRD Division at different divisions of CMPDI. Total 197 numbers of students have been trained at CMPDI in 2015-16. The students have undergone these Trainings / Project works for 7 days to 2 months. After completion of training / Project, HRD Division has issued certificates for successful completion of Training / Project.

12.0 OUTSIDE CIL CONSULTANCY

During the period April, 2015 to March, 2016, 18 consultancy jobs were done for 13 organisations outside CIL. Some of the major clients/organizations to whom jobs were provided/ completed are Tata Steel, MOIL Ltd., NMDC, Punjab State Power Corporation Ltd. etc.

Presently, 19 outside consultancy jobs are in hand for 15 organizations like SAIL, MOIL, Tata Steel, IDCO, NTPC, Odisha Coal and Power Ltd., Gujarat State Electricity Corporation Ltd., MP Power Generating Co. Ltd., UCIL, NMDC etc.

During the year 2015-16, 33 outside consultancy jobs worth Rs. 39.37 crores from 28 organizations were procured by CMPDI. This is the highest ever value of jobs obtained in a year by CMPDI.

MoU performance

As per the MoU between Coal India Limited and CMPDI for the financial year 2015-16, "Perspective plan / Road map as to how **CMPDI's business income from clients outside CIL and MoC could increase in future**" was prepared and submitted as per the schedule i.e. 30th Oct, 2015.

13.0 MANPOWER AND WELFARE ACTIVITIES

13.1 STATUS OF MANPOWER:

Particulars		As on March 31, 2015	As on March 31, 2016
Executive		934	913
Non-Executive	Monthly Rated	1280	1276
	Daily Rated	1415	1433
Grand Total		3629	3622

As per the directives of SC/ST Commission, the Manpower of CMPDI mentioning the number of SC/ST/OBC is required to be incorporated in the Annual Report of CMPDI every year.

The total number of SC/ST/OBC manpower as on 01.04.2016 is mentioned below:

Total number of Employees	Total number of SC	Total number of ST	Total number of OBC
3622	427	264	643

13.2 WELFARE ACTIVITIES:

1. CMPDI has 2500 nos. of quarters at its Headquarters and Regional Institutes with housing satisfaction of 100%.
2. Adequate supply of drinking water has been made available to employees of CMPDI.
3. All the employees and their dependents are provided medical facilities through its dispensaries and the hospitals owned by subsidiary companies of CIL. Patients are also referred to renowned institutions as per requirement.
4. CMPDI provides financial assistance/ grant of Rs.1.00 lakh to DAV Public School, Gandhi Nagar, Ranchi.
5. There are 31 nos. of school buses including hired small vehicles for school going children of employees.
6. Cash Award amounting to Rs. 52,000/- (Rupees fifty two thousand) only was given to the wards of the employees who secured 90% and above marks in the Xth

& XIIth Board Examination held in the year 2015.

7. Gratuity Cheque is being given to the employees on the day of their superannuation.
8. All the employees of CMPDIL are getting their salary through Bank
9. A Grant of Rs. 25,000/- (Rupees twenty five thousand) only was given to Kasturi Mahila Sabha for organizing family get-to-gather.
10. A Grant of Rs. 20,000/- (Rupees twenty thousand) only was given to Kasturi Mahila Sabha for celebrating Husband Night.
11. A Grant of Rs. 13,000/- (Rupees thirteen thousand) only was given for celebrating Ambedkar Jayanti 2015.
12. A Grant of Rs. 30,000/- (Rupees thirty thousand) only was given to Recreation Club for celebrating New Year.
13. A Grant of Rs. 30,000/- (Rupees thirty thousand) only was given to Gondwana Club & Recreation Club for celebrating Holi Milan.
14. CIL Merit Scholarship amounting to Rs. 47,400/- (Rupees forty seven thousand four hundred) only was given to 18 wards of employees and CIL General Scholarship amounting to Rs. 1,22,820/- (Rupees one lakh twenty two thousand eight hundred twenty) only was given to 112 wards of the employees as per the guidelines of the Company.
15. An amount of Rs. 6,72,660/- was given to wards of the employees studying in NIT/ IIT as per existing guidelines.
16. CMPDI conducted summer coaching camp for the period from 25.05.2015 to 07.06.2015 for the ward of employees.

13.3 Sports Activities:

1. CMPDI hosted Coal India Inter-Company Chess Tournament 2015-16 w.e.f. 02.12.2015 to 04.12.2015.
2. CMPDI conducted Inter-Regional Institute Tournament for Badminton, TT, Carrom, Chess, Athletic Meet, Foot Ball, Volley Ball and Bridge.
3. CMPDI (HQ) conducted friendly Canvas Ball Cricket Tournament between CMD- XI and Director- XI on 15th Aug., 2015 and on 26th Jan., 2016.
4. CMPDI (HQ) conducted friendly Football Tournament between CMD- XI and Director- XI on 09.10.2015.

13.4 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 "Desh Kaal Sampada", a Renowned & National Level House Magazine of your company also continued to promote the creative writing in Hindi.



In the month of September, 2015, "Rajbhasha Month" was organized. On this occasion Joint Director (Rajbhasha), Ministry of Coal, was also present and reviewed the progress of Rajbhasha Hindi in the company. In order to promote and make Hindi popular among the employees of the company, several Hindi competitions were organized on this occasion. A large number of employees participated in all the competitions held during the month and the Competitors' securing 1st to 5th position in the competitions were awarded prize of Rs. 1500, Rs. 1300, Rs. 1200, Rs. 1100, Rs. 1000, respectively in cash as well as books of equal amount by the Directors of your company.

In addition, two departments and two RI's, who have done most of their official work in Hindi were awarded Chairman's Winner and Runner Shield respectively.

Four Hindi workshops were also organized under the aegis of Staff Training College (Human Resource Development Division) to facilitate the use of Official Language "Hindi" in day-to-day Official Work. All Hindi workshops were very much effective in removing hesitation of the employees in the field of use of Rajbhasha Hindi in daily routine work.

Four 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 the Ministry of Home Affairs, Department of Official Language, New Delhi. Your company continued to participate in the meeting of Town Official Implementation Committee organized by CCL.

13.5 DISCLOSURE AND INFORMATION UNDERSEXUAL HARASSMENT TO WOMEN:

No compliant or no case of sexual harassment to women at working place in CMPDIL has been reported during the

year 2015-16 under the disclosure and information under sexual harassment to women at work place (prevention, prohibition and redressal) Act, 2013.

- Number of sexual harassment complaints received in a year - Nil
- Number of complaints disposed of in a year - Nil
- Number of cases pending for more than 90 days - Nil
- Number of awareness programs or workshops against sexual harassment conducted in a year - Nil
- Nature of action taken by the employer or District Officer with respect to the case - Nil

14.0 CSR & SUSTAINABILITY ACTIVITIES OF CMPDI (2015-16):

Corporate Social Responsibility (CSR) is widely recognized as an important means to promote sustainable development and inclusive growth. Corporates are now widely judged by the stakeholders and the society at large by the initiatives taken to address sustainability issues. Public sector Enterprises (PSEs) have played a vital role in socio economic development of the country. Corporate Social Responsibility facilitates integration of Social, Environmental and Ethical responsibilities into the governance for a long lasting profitability and sustainability. Today, it is imperative for the corporate to move faster towards CSR and develop the communities in which they operate, grow and flourish to stay afloat.

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.

CMPDI CSR projects are undertaken in and around the areas of operations (which includes drilling camps spread across 7 states of the country) to cater to the needs of the affected community for their development and wellbeing.

CSR Policy:

CMPDI follows the CIL's Board approved CSR policy framed after incorporating the features of Companies Act, 2013 and as per notification issued by Ministry of Corporate Affairs, Govt. of India on 27.02.2014 as well as DPE's Guidelines.

Objective:

The Main objective of CSR policy is to lay down the guidelines for the coal companies to make CSR a key business process for sustainable development for the society. It aims at supplementing the role of Govt. in enhancing welfare measures of the society based on the immediate and long term social and environmental consequences of their activities. CIL will act as a good corporate citizen, subscribing to the principles of global compact for implementation.

Areas to be covered:

The poor and needy section of the society living in different parts of India would normally be covered. The CSR programme will also cover the existing components of Special Corporate Plan (SCP) and Tribal Sub Plan (TSP) for the development of SC/ST population besides development components for the entire population.

For carrying out CSR activities, 80% of the budgeted amount should be spent within the radius of 25 km of the projects/mines and 20% of the budget would be spent on CSR activities within the state/ states in which the subsidiary companies are operating.

Scope:

As per scheduled VII of New Companies Act, 2013 the following should be the scope of activities under Corporate Social Activities

- i. Eradicating hunger, poverty and malnutrition, promoting preventive health care and sanitation and making available safe drinking water;
- ii. Promoting education, including special education and employment enhancing vocational skills especially among children, women, elderly, and differently abled and livelihood enhancement projects;
- iii. Promoting gender equality, empowering women, setting up homes and hostels for women and orphans, setting up old age homes, day care centers and such other facilities for senior citizens and measures for reducing inequalities faced by socially and economically backward groups;
- iv. Ensuring environmental sustainability, ecological balance, protection of flora and fauna, animal welfare, agro-forestry, conservation of natural resources and maintaining quality of soil, air and water;
- v. Protection of national heritage, art and culture including restoration of buildings and sites of historical importance and works of art: setting up public libraries, promotion and development of traditional arts and handicrafts;
- vi. Measures for the benefit of armed forces veterans, war widows and their dependents;
- vii. Training to promote rural sports, nationally recognized sports, Paralympics sports and Olympic sports;
- viii. Contribution to the Prime Ministers National Relief Fund or any other fund set up by the central government for socio-economic development and relief and welfare of scheduled castes, the scheduled tribes, other backward classes, minorities and women.

- ix. Contribution or funds provided to technology incubators located within academic institution which are approved by central government;
- x. Rural development projects;

Implementation:

The investment of CSR should be project based and every project time framed periodic mile-stones should be finalized. Project activities identified under CSR are to be implemented by specialized agencies and generally not by staff of the organization.

Monitoring:

CSR cell is headed by an E8 level officer who will prepare the Annual CSR report on CSR activities and placing the same before CSR & Sustainability Development Committee. A separate/chapter is included in annual report on the implementation of CSR activities/projects including the facts relating to physical and financial progress.

The complete CSR policy of Coal India Limited is available at https://www.coalindia.in/DesktopModules/DocumentList/documents/CIL_CSR_Policy_New_Companies_Act_2013_16062014.pdf

Keeping in view the special nature of its business, CMPDI (HQ) has initiated its CSR & Sustainability activities in following areas during 2015-16:

[a] Education:

Educational support like supply of Desk-Benches, School Dress, financial support/assistance in the form of scholarship are being provided by CMPDI to many schools.

1. Financial Assistance for celebration of Annual day, Sports Day, Independence Day & Republic Day at Gondwana Primary School, Kanke Road, Ranchi, Jharkhand



2. Financial Assistance for celebration of Annual day, Sports Day, Independence Day & Republic Day at Birsa High School, Kanke Road, Ranchi, Jharkhand
3. Supply of 60 sets of Desk-benches, Sport Materials and Ceiling fans (25 nos.) for the students of Adivasi Bal Vikas Vidhyalaya, Gadhdipa, Sarsa, Lapung, Ranchi, Jharkhand



4. Distribution of school Dress to (190 Sets) students of Birsa High School, Kanke Road, Ranchi, Jharkhand



5. Distribution of Ceiling fans (20 nos.) & Almirahs (5 nos.) for the students of Bharat Sevashram Sangha, Tupudana, Ranchi, Jharkhand



6. Carpet for the students of Gondwana Primary School & Birsa High School, Kanke Road, Ranchi, Jharkhand.
7. Payment of school fees to 24 nos. of Poor & Meritorious students of Gondwana Primary School, Ranchi & 39 nos. of Poor & Meritorious students of Birsa High School, Ranchi for 1 year period.
8. Distribution of Almirahs (1 nos.) & Book shelves (2 nos.) for the students of Pramathanath Vidyalaya, Hinoo, Ranchi, Jharkhand



9. Distribution of School Dress (1 no.) to 95 girls students and 95 boys students of Birsa High School, Ranchi, Jharkhand.



10. Distribution of Steel Table & Chairs (2 nos. each) and desk-benches (50 nos.) to Gondwana Primary School, Ranchi, Jharkhand.



11. Distribution of School Dress (2 sets) will be provided to 30 students of Asansol Braille Academy, West Bengal under CSR.
12. Distribution of 3-seater Desk and Benches to Primary Schools, Santhal Danga F.P. School, Aradanga, Joredanga F.P. School & Gopalpur F.P. School of Asansol, BISS Primary School of Kulti, West Bengal under CSR.



13. Distribution of 50 sets of Desks & Benches (5 Seater, Steel frame) to Ethora Shrish Chandra Institution, West Bengal under CSR.

14. Distribution of (20 nos.) Desk-Bench at Rajkiyakrit Prathamik Vidyalaya, Nutandih, Dhanbad and Distribution of (50 nos.) Desk-Bench at Buniyadi Vidyalaya, Jagjiwan Nagar, Dhanbad, Jharkhand under CSR.



15. Distribution of (50 nos.) Desk-Bench at Urdu and Hindi Vidyalaya, Naya Bazar, Dhanbad, Jharkhand under CSR.

16. Distribution of Desk-Bench (200 nos.) in different govt. schools of Bhagiya Panchayat, Balumath, Latehaar, Jharkhand under CSR.

17. Distribution of (50 nos.) Desk-Bench at Rajkiya Madya Vidyalaya, Orla. Mandu, Ramgarh and Distribution of (50 nos.) Desk-Bench at U.M.S. Jobla, Mandu, Ramgarh, Jharkhand under CSR.



18. Distribution of Sweaters in Bal Nikunj Primary School, Nagpur, Maharashtra under CSR.



19. Distribution of (145 nos.) of three seater Wooden Desk & Benches and Wooden Tables (15 nos.), Chairs (15 nos.) and Steel Almirahs (5 nos.) to Shashakiya Uchchatar Madhyamik Vidyalaya, Tingudi, Singrauli, Madhya Pradesh under CSR.



20. Distribution of (50 nos.) of three seater wooden Desk & Benches and Wooden Tables (14 nos.), Chairs (07 nos.) and Steel Almirahs to Shashakiya Purv Madhyamik

Vidyalaya, Amjhar, Singrauli, M a d h y a Pradesh under CSR.



Pump at Balitora village, Madhukunda Block, Purulia, West Bengal under CSR.



5. Construction of Shed-sum-Platform in Orla Village, Ramgarh, Jharkhand and Construction of Shed in Dhaviya Village, Bokaro, Jharkhand under CSR.



[b] Infrastructural Support :

Several infrastructural projects in the form of School Class Room, Community Hall, Shed, and Toilets etc. have been constructed by CMPDI in various locations:

1. Construction of Hostel-cum-Computer Center for Blind Girls Students of Braj Kishore Netraheen Balika Vidyalaya, Bariyatu, Ranchi, Jharkhand (under construction).
2. Contraction of Toilet for girl students with bore well at Pramathanath Madhya Vidyalaya, Hinoo, Ranchi, Jharkhand under CSR.
3. Construction of Boundary wall with Gate for Aradanga Jordanga F P School, Kalla Central Hospital, Burdwan, West Bengal under CSR (Spillover activities from 2014-15).
4. Construction of Cultural hall with Hand

6. Construction of Mid-Day Meal Shed with stage in Zilla Parishad Higher Primary School, Anandvan, Warora, Chandrapur, Maharashtra under CSR.



7. Construction of Boundary Wall in Zilla Parishad Higher Primary School, Anandvan, Warora, Chandrapur, Maharashtra under CSR.
8. Construction of Library Room in Zilla Parishad Higher Primary School, Bandar (c) Chimur, Chandrapur, Maharashtra under CSR.



9. Construction of Boundary wall (205.00 meter in Moorumkhadan School, Khamtarai Village, Chhattisgarh under CSR.



10. Construction of Kalyan Mandap at Kosala village, Odisha under CSR



11. Construction of toilets in Zilla Parishad School, Wagholi, Nagpur, Maharashtra and Construction of toilets in Zilla Parishad School, Rajura, Nagpur, Maharashtra under CSR. under CSR.



12. Constuction of 2 nos. of toilet blocks in Govt. High School in Lingiadih, Chhattisgarh under CSR (under Construction).
13. Construction of 4 nos. of Toilets at 1) Govt. Secondary School, Khamtra, 2) Govt. Secondary School, Nagpura, 3) Govt. Girls Hr. Sec. School, Chakarbhata and 4) Govt. Boys Hr. Sec. school, Chakarbhata, Bilaspur, Chhattisgarh under CSR.





[c] Healthcare:

1. Financial Assistance of Rs. 10.00 lakhs to K.C. Roy Memorial Charitable Hospital for Ultrasound Machine.



[d] Sports

1. Financial Assistance for organizing Football tournament at Gramin Utthan Sansthan, Ranchi, Jharkhand.



2. Financial Assistance of for Organistaion of Sports day at Birsa High school, Kanke Road, Ranchi, Jharkhand.



3. Financial Assistance of for Organization of Sports day at Gondwana Primary School, Kanke Road, Ranchi, Jharkhand.
4. Sports Materials like Football, Volleyball, Hockey sticks, Net & Hockey Ball etc. for the students of Adivasi Bal Vikas Vidhyalaya, Gadhdipa, Sarsa, Lapung, Ranchi, Jharkhand.



[e] Social Development:

1. Distribution of Uniform (76 nos.), Shoes (76 nos.), Blankets (10 nos.), Bed sheet (76 nos.), Bed with Mattress (36 nos.), Washing machine (1 no.), Fridge (1 no.), Bookshelf (6 nos.), Books & Sports Items etc. to Sri Sri Maa Anand Ashram Near Kalupada Ghata, Damana, Chandrasekharpur, Bhubansewar



[f] Skill Development / Women Empowerment:

CMPDI started women empowerment initiative by providing the skill development programme to the women, keeping in view protecting the downtrodden and neglected women in the society.

1. Sponsorship of 10 nos. of blind girls of Braj Kishore Netraheen Balika Vidyalaya, Ranchi for skill development training programme for a period of 1 year.



2. Distribution of Sewing machine (06 nos.) with training facility to the Women's of Mahila Samiti of Hatma Village, Ranchi, Jharkhand. (CSR activity from 2014-15).



3. Distribution of (6 nos.) of sewing Machine to Bhagiya Panchayat, Latehaar, Jharkhand for Women's Development under CSR.



[g]

Drinking Water:

1. Drilling and Installation of borewell (3 nos.) at Kosala Village & Kaithadhipa Village of Odisha,



2. Construction of one tube well with pump set in the village Lagra, Bilaspur, Chhattisgarh under CSR.



[h]

Sustainability:

1. Energy conservation by replacing conventional lights by LED lights (60 nos.) at CMPDI Regional Institute-VII colony, Bhubaneswar, Odisha.

15.0 Performance of Memorandum of Understanding of CMPDIL for the year 2015-16.

For every financial year CMPDIL enters into a MoU with Coal India Limited to set various parameter for physical and financial performances. The achievements are graded on a scale of 1-5; excellent being the grade 1.0 to 1.5 and poor as 4.51 to 5.0. For the year 2014-2015, CMPDIL has been graded as Excellent (1.002) whereas it was 1.395 for the year 2013-14.

16.0 Coal India Foundation day celebrated in CMPDI.

CMPDI, a Mini-Ratna Company, celebrated the Coal India Foundation day with full fervor on 1st and 6th November, 2015. The Chief Guest of this occasion was Shri Anil Razdan, IAS, Former Secretary (Power). On this occasion, E-office was inaugurated at CMPDI (HQ) by virtue of which CMPDI has become 4th PSU in India. CMPDI has planned the biggest open cast mine (Gevra) in India with capacity of production of 70 million tonne per annum. Awards in different categories were given to the employees of CMPDI for excellent performance in their respective area of operation. On this occasion, based on drill productivity, Bishrampur camp got the award for the best drilling camp and Singhpur Camp for second best drilling camp in mechanical drill category, while Kudumkela camp got the award for the best drilling camp in hydrostatic drill category. The cultural programme was also organized to mark the celebration. On this occasion, Shri S. Saran, Director (T/P&D); Shri V.K. Sinha, Director (T/ RD&T); Shri B.N. Shukla, Director (T/CRD); CVO-CMPDI Shri Arvind Prasad, Ex-CMDs and Directors of Coal India family, members of JCC, representatives of CMOAI and other reputed persons were also present. The celebration started with lighting of lamp and Corporate Song of Coal India Limited.



16.1 Activities of Forum of Women in Public Sector (WIPS), CMPDI in the year 2015-16

Overview

WIPS, CMPDI (under the aegis of SCOPE) was in hibernation for more than a decade. After its revival in 2009, CMPDI as an organization registered as a corporate member of this Forum in 2010 and the new Management Committee came into effect from June 2012 under the leadership entrusted upon Ms. Suchandra Sinha, Senior Manager (E&M) functioning as Coordinator, WIPS, CMPDI. The Forum has achieved new heights in contributing to the organizational goals of the company, with the active co-operation of its members and continual support of CMPDI Management.

Achievement highlights of WIPS, CMPDI in the year 2015-16

1. General rules of conduct for women employees with special focus on dress code to be self-adopted in office by all employees were discussed and lack of certain basic amenities like clean toilets with requisite labels on the toilet doors & availability of basic facilities, common room and crèche required for the members was expressed. The resolutions were conveyed to CMPDI Management and Town Engineering Division, CMPDI(HQ) provided both ladies' toilets and gents' toilets with



requisite labels and basic amenities for cleanliness and sanitation as a follow-up.

2. The new committee took over with a membership of 86 women employees (22 executives & 64 non-executives) i.e. only 5.5% of the total workforce. Embarked upon an energetic new membership drive, 150 new members added bringing the total WIPS membership in CMPDI to 236 women employees (72 executives & 164 non-executives), despite induction of new women force into the company after long, only 6.3% of the total workforce. WIPS ER won the "Highest Membership Award" at the WIPS National Meet held at Kolkata where CMPDI was the highest contributor.
3. The Forum has taken up the following activities under the CSR approved Project titled "Project Swawalambi" for employment generation of self-help group for women, adult literacy and child development in Hatma Basti, Kanke Road, Ranchi (to be facilitated and conducted by WIPS Cell, CMPDI). This Project has successfully completed two (2) years, taken up in January 2014
 - Conducting remedial classes for around 40 underprivileged children (between 5-15 years of age) from Hatma Basti (who are already studying in schools but cannot afford private tuitions) by employees of CMPDI using the infrastructure of Gondwana School, CMPDI campus on Saturday and Sunday for 1-2 hours. This endeavour began in January 2014 and WIPS' efforts has helped sustain this mission for over two years till date. Study materials, food items and daily use articles were distributed to inculcate habits of cleanliness from time to time from personal contributions throughout the year.
 - Conducting adult literacy classes for the illiterate women of "Hatma Mahila Sangharsh Sansthan" by employees of CMPDI, same time & place as above with basic study materials from personal contributions.
 - CSR team and WIPS team gave away three (3) fully automatic sewing machines to the underprivileged women of Hatma Mahila Sangharsh Sansthan on 09.11.15 after successful completion of USHA authorized training for four (4) women of the Sansthan.
 - Forum facilitated, conducted, monitored and successfully completed authorised and certified training in stitching and sewing to four (4) women in CMPDI office campus itself, 5 days a week for 3 months for skill development & employment generation from October '14 to March '15. Certificates were distributed for the same on 09.11.15.
4. WIPS members attended a health awareness programme on cervical cancer on 11.03.16 at Medica Superspeciality Hospitals, Ranchi, on their invitation, on the occasion of "International Womens' Day."
5. Members of the Forum have voluntarily adopted girl children in Gondwana School, (patronised by CMPDI Management) for payment of annual fees and caring for their needs from time to time.
6. **Hindi Diwas, Vigilance Awareness, Sports, Inter-RI & Inter-coal cultural meets**
 - Hindi month observed in Sept 2015 & awards won by WIPS members in essay writing, slogan writing, poetry
 - Vigilance Awareness week observed in last week of Oct 2015, awards won by WIPS members in slogan writing and extempore speech competition
 - Sports Awards were won in Inter RI competitions
 - Cultural awards in music and dance were won by at inter RI and Inter coal level by WIPS members in April 2014 and November 2015

7. CIL Foundation Day” celebrations, November 6th, 2015.

- Co-coordinator, WIPS chalked out the activities of the Forum, congratulated all employees and thanked the CMPDI Management for their continued support
- Members of the Forum received Excellence Awards for innovation in coal beneficiation, environment and coal petrography

8. Seminars and Meetings outside CMPDI attended by WIPS members of CMPDI chapter are:

- WIPS National Meet on 11th& 12th February 2016 at Chennai, attended by 5 delegates
- WIPS Regional Meet on 28.11.2015 at CCL, Ranchi, attended by 10 delegates
- Meeting of “Regional Executive Body” of WIPS (Eastern Chapter) for all PSUs in Eastern India at Kolkata, on 3 occasions attended by Co-coordinator, WIPS, CMPDI and WIPS Apex elections at Chennai on 09.02.16 and WIPS ER elections at Kolkata on 28.03.16 attended by Co-coordinator, WIPS, CMPDI.

9. WIPS Activity Round-up of the CMPDI Regional Institutes (RIs) in the year 2015-16. Forum so that they may all be addressed and their potential gainfully utilized in the interests of the organizational goals. WIPS RI representatives have helped strengthen the WIPS network between the Headquarters and all RIs constructively that has increased interaction, sharing of issues and communication gateways have opened up. WIPS members from RIs were duly represented in all above mentioned meets and seminars. The WIPS representatives energetically took on the membership drive to take almost all their women employees under the folds of WIPS, CMPDI.



17.0 DIRECTORS' RESPONSIBILITY STATEMENT:

- 17.1** In the preparation of the annual accounts, the applicable accounting standards had been followed along with proper explanation relating to material departures.
- 17.2** 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.
- 17.3** 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.
- 17.4** The Directors had prepared the Annual Accounts on a going concern basis.
- 17.5** 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 K.C. Tak & Co., Chartered Accountants, Ranchi were appointed as Auditors of the Company for the financial year 2015-16. They were also appointed Tax-Auditors for the year U/S 44 (AB) of the Income- Tax Act, 1961. They were also appointed Jharkhand VAT Auditors for the year 2015-16.

ACKNOWLEDGEMENT :

Your Directors are grateful to the Government of India particularly the Ministry of Coal, Coal India Ltd., and its Subsidiaries, State Governments and other Public Sector Undertakings with whom your Company has to work in close contact for their co-operation and encouragement in fulfilling the tasks of the Company. We are thankful to our esteemed clients for the confidence reposed in us and the patronage extended to us and to the dedicated employees of the company.

ADDENDUM :

Information as required to be given in the Directors' Report under Section 134(3) (m) of the Companies Act, 2013 on conservation of energy, technology absorption and foreign exchange earnings and outgo, Research and Development, CEO and CFO certification, Extract of Annual Return under section 92 of the Companies Act, 2013, Auditor reports on compliance on Corporate Governance, the reports of Statutory Auditor and Management replies, Secretarial Auditor's Report and replies of management Comments of the Comptroller & Auditor General of India under section 143 of the Companies Act, 2013, reports on MoU 2015-16 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

Place : Ranchi
Date: 27.06.2016

Sd/-
(Shekhar Saran)
Chairman-cum-Managing Director

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

CMPDI has undertaken energy conservation studies in 2015-16 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 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 CMPDI 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
- viii. Energy conservation measures for HEMM

Energy Audit and Energy Benchmarking studies conducted by BEE accredited Energy Auditors, please refer table as given below:



Energy Conservation initiatives taken up by CMPDI for the year 2015-16

Sl. No.	JOB Description	Proposed Investment (in lakh)	Proposed Saving Potential
Energy Audit and Benchmarking studies carried out by CMPDI (HQ) in 2015-16			
A	Diesel Audit and Benchmarking		
1.	Annual benchmarking of 14 OCPs identified by CCL	-	1924 k Litre/yr
2.	Annual benchmarking of 03 OCPs identified by SECL	-	2637 k Litre/yr
3.	Annual benchmarking of 08 OCPs identified by NCL	-	4551 k Litre/yr
4.	Annual benchmarking of 12 OCPs identified by MCL	-	2165 k Litre/yr
5.	Annual benchmarking of 14 OCPs identified by BCCL	-	2050 k Litre/yr
6.	Annual benchmarking of 08 OCPs identified by ECL	-	1714 k Litre/yr
7.	Annual benchmarking of 17 OCPs identified by WCL	-	3526 k Litre/yr
8.	Diesel Audit & Benchmarking of Piparwar OCP, CCL	-	53.96 k Litre/yr
9.	Diesel Audit & Benchmarking of Purandih OCP, CCL	-	146.12 k Litre/yr
10.	Diesel Audit & Benchmarking of KDH OCP, CCL	-	164.94 k Litre/yr
B	Electrical Energy Audit and Benchmarking		
1.	Electrical Energy Audit and Benchmarking of Krishnashila OCP, NCL	42.6	9.32 lakh/yr
2.	Electrical Energy Audit and Benchmarking of Jayant OCP, NCL	87.54	274.52 lakh/yr
3.	Electrical Energy Audit and Benchmarking of Urimari OCP, CCL	127.94	80.04 lakh/yr
4.	Electrical Energy Audit and Benchmarking of Parej East OCP, CCL	109.20	24.08 lakh/yr
5.	Electrical Energy Audit and Benchmarking of Talcher U/G Mine, MCL	200.12	157.59 lakh/yr
6.	Electrical Energy Audit and Benchmarking of Orient Mine II U/G, MCL	17.50	31.16 lakh/yr

B. Technology absorption

i. Rooftop Solar Power Plant initiatives

- 80 KWp Rooftop Solar Power Plant with micro-grid system at CMPDI, RI-I Office Building at Asansol
- 30 KWp Rooftop Solar Power Plant with micro-grid system at CMPDI, RI-II Office Building at Dhanbad
- 50 KWp Rooftop Solar Power Plant with micro-grid system at CMPDI, RI-VI Office Building at Singrauli

ii. Solar based Street lights fitting initiatives in various RIs of CMPDI

C. FOREIGN EXCHANGE EARNING AND OUTGO

Sl. No.	Particulars	2015-16
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 (Rs.in Crore)	Nil
(b)	Total foreign exchange used (Rs.in Crore) [Travelling Expenses Rs. 0.27 Crore + Others Rs. 7.44 Crores]	Rs. 7.71 Crores

D. RESEARCH AND DEVELOPMENT AND TECHNOLOGY ABSORPTION

- ##### i. An R&D project titled "Design, develop and demonstrate a Micro-Grid system for optimization and control of multiple source of power supply" has been completed by CMPDI, Ranchi and Gujarat Energy Research and Management Institute (GERMI), Gujarat. Total approved cost of the project is Rs. 351.30 lakh (CMPDI, Ranchi - Rs. 33.80 lakh and GERMI, Gujarat- Rs. 317.50 lakh).

The solar photovoltaic plant has been commissioned on the roof tops of CMPDI office buildings.

The total installed capacity of the plant is around 191kW, which is at present generating 30% of total installed capacity. Two types of technologies, one with string inverter and another with micro inverter have been adopted in installing the plant. Under this project, conventional grid (utility supply) clubbed with solar PV system and DG sets through grid interactive inverters to feed to internal grid (CMPDI) whenever utility grid (JSEB) supply is not available.

The diesel consumption for running the generators can also be reduced substantially. Further, CO₂ emissions into the atmosphere will also be reduced by generating this clean energy. The total life of the plant is about 25 years and required a very little maintenance.

- ii. An S&T project titled "Development of Indigenous catalyst through pilot scale studies of Coal-to-Liquid (CTL) conversion technology" is under implementation by CMPDI, Ranchi and CIMFR, Dhanbad. Total approved cost of the project is Rs. 860.44 lakh (CMPDI, Ranchi- Rs. 116.90 lakh and CIMFR, Dhanbad - Rs. 743.54 lakh).

The project aims to develop indigenous catalysts for conversion of Coal to Liquid (CTL). CTL Pilot Demonstration Unit (PDU) of capacity 10 litre has been installed and commissioned at CIMFR (Digwadih campus), Dhanbad. So far, 100 hrs. continuous experimental runs of CTL Pilot Plant has been completed and 1.25 L of Liquid Hydrocarbon has been produced by charging 3.0 kg of Cobalt based catalyst in the Fixed Bed Reactor. Further experiment for 100 hr run is under progress. The outcome of the project will lead to eliminate the dependence on technology provider for supply of catalysts during Coal to Liquid (CTL) conversion.

E. Technology absorption:

The R&D in coal sector is mainly for improvement of efficiency parameters in mining operations including mine safety and related activities like coal beneficiation/utilization and also on control of mine 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 the year 2015-16, in this direction, one research project has been completed and few are under implementation. Details of the projects are as follows:

- i. **Construction of quick setting stopping in case of fire in underground mines using expansion foam agent.**

Under this project, total 7 stoppings, as envisaged in the project proposal have been constructed in Orient mine-3 and Hirakhand Bundia mine, Orient area, MCL {2 at Hirakhand Bundia and 5 at Orient mine no. 3} with new compound "Blockage-52" developed by NIT, Rourkela, S&R Division, CIL and M/s Trans Marketing, Kolkata. It has been observed that it took hardly 72 man-hours to construct a stopping including preparatory works with new developed compound. In a shift one stopping could be built comfortably with this new compound "Blockage 52". Continuous monitoring was conducted to assess the effects of air circulation, blasting and other mining conditions on long term stability of these stoppings. After curing, the surface of stoppings have good strength and stability and found completely non-effective to the humidity or water leakage in underground mines. Total cost for construction of one stopping (Size of stopping is 2m x 3m x 0.20m) with this new developed compound was around Rs.1,20,000/-.

Total approved cost of the project is Rs.51.34lakh.

ii. Demonstration of Coal Dry Beneficiation System using Radiometric Technique.

This project is under implementation by CMPDI, Ranchi, Ardee Hi-Tech Pvt. Ltd, Visakhapatnam and BCCL, Dhanbad. The project aims at developing a demonstration plant for dry deshaling of coal based on modified radiometric detection and pneumatic removal technology.

The proposed dry beneficiation technology is based on radiometric detection and removal of stones and shale from coal streams and works on the differential gamma ray absorption properties of coal and ash forming minerals. The mass absorption coefficient of coal is dependent on the chemical composition of coal and shale. The distinct advantage of radiometric technology is that the target for clean coal or the threshold value for rejection can be planned and set as per need. This technology is an efficient, dust free and energy friendly also.

Under this project, it was proposed to take up this technology at demonstration scale. This project is now being executed at Madhuband Washery by installing two modules of ArdeeSort for deshaling coals in the size fraction of 13mm-50mm (in two stages i.e. 13-25mm & 25-50mm). The construction work at project site is at advance stage and anticipated that the entire work of plant erection will be completed by shortly. Thereafter, commissioning of the equipment, trial operation & PGT will be conducted for two months.

Total approved cost of the project is Rs.2565.70lakh.

iii. To find a methodology of safe liquidation in thick seams of Raniganj Coalfields: Design & Development & show-casing demonstrative trials at Khottadih colliery, ECL.

This project is under implementation by CIMFR, Dhanbad in association with ECL. The prime objective of the project is to design a feasible and optimal method for safe liquidation of coal in thick seams out of existing methods for extraction of seam and to validate the same at the selected mine site at Khottadih project, Raniganj CF, ECL. While designing and showcasing-demonstrative trials, the two important aspects i.e. ground control and fire-propensity aspects also been taken into consideration in a way to increase the number of coal pillars extraction.

The study is now being conducted in the trial panels of Semi-Mechanized Mine (with SDL or LHD) and also with a Continuous Miner (CM) deployment in Khottadih project. Under the proposed study, a general guideline would be prepared so that a feasible method can be developed, which is applicable to a wide spectrum of geo-mining conditions with support design requirement.

Total approved cost of the project is Rs.41.066 lakh.

iv. Development of guidelines to predict distance between toe of the Shovel-Dumper dump and that of Dragline dump with consideration of safety and economical design of both Shovel-Dumper dump and Dragline dump.

This project is under implementation by BIT, Mesra, Ranchi. The prime objective of the project is to develop a general model which would be applicable for other OC mines of CIL where shovel and dragline dumps exist with due consideration of safety and to reduce the land requirement to a certain extent for external dumping in opencast excavation.

Under the proposed study, general guidelines would be developed to predict distance between toe of the Shovel-Dumper Dump and Dragline dump based on different geo-mining parameters like dump material, mine floor inclination, water table profile within dump mass, seismicity of the area, geometry of Dragline and Shovel dumps etc. Slope angle of the dragline dump would also be optimized during development of proposed guidelines.

Under the project, so far, the study has been conducted in eight opencast mines of CIL i.e. i) Sasti OCP, WCL ii) Dudhichua OCP, NCL iii) Khadia OCP, NCL iv) Jayant OCP, NCL v) Bina OCP, NCL vi) Nigahi OCP, NCL vii) Amlohri OCP, NCL and viii) Sonapur Bazari OCP, ECL for determination of geo-engineering parameters for development of guidelines to determine the optimum distance between toe of dragline dumps and Shovel-Dumper-Dumps. Based on the analysis of geo-engineering data generated in above mines, BIT, Mesra has prepared interim draft report for Jayant, Bina, Nigahi, Dudhichua, Khadia and Amlohri Ocps of NCL. Draft reports for Sasti opencast project, WCL and Sonapur Bazari OCP, ECL are under preparation. Geo-engineering data collection from remaining opencast projects of CIL are in progress for further study

Total approved cost of the project is Rs. 26.58 lakh.

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

The project is under implementation by CMPDI, Ranchi, CMERI, Durgapur and CIMFR, Dhanbad. The project aims to develop tele-robot on-line continuous monitoring system for various mine parameters related to underground mine environment and roof strata.

The proposed model of the robot has already been developed by CMERI, Durgapur and lab-scale trials have been conducted. Field trial conducted at Khottadih mine of ECL. However, further field trial will be conducted after necessary modifications in the robot design.

Total approved cost of the project is Rs. 440.12 lakh

vi. Techno-economic Evaluation and performance behavior of Self Advancing (mobile) Goaf Edge Supports (SAGES).

The project is under implementation by Indian School of Mines (ISM), Dhanbad and M/s Jaya Bharat Equipment Pvt. Ltd (JBEPL), Hyderabad. The project aims at modifications and refurbishment of 6 nos of SAGESs, which were designed and fabricated under earlier S&T project and to study their performance behavior in underground coal mines of SCCL for their techno feasibility study.

Under this project, the support units after making necessary modifications would be subjected to field trial at RK-NT Mine/RK-5 mine of SRP area, SCCL, where the immediate roof is shale/sandstone to study the performance behavior and its influence on the ground movement and also to study the techno-economic feasibility.

Total approved cost of the project is Rs. 73.27 lakh.

vii. Design and development of truck mounted mobile coal sampler for instant coal ash & moisture analyser at site from railway wagon/truck.

The project is under implementation by CIMFR, Dhanbad & M/s Pranay Enterprises Pvt. Ltd., Hyderabad. The prime objective of the project is to establish the feasibility of nuclear technique method with dual gamma ray transmission for analysis of coal for ash and moisture content and design and development of Truck Mounted Mobile Coal Sampler for instant coal ash and moisture analysis.

Under the phase-I of the project, it was established the feasibility of nuclear technique method with dual gamma-ray transmission for analysis of coal for ash and moisture contents. In phase -II, Proto type of Mobile coal sampler has been developed. Fabrication of full scale truck mounted coal sampler is at advance stage.

Total approved cost of the project is Rs. 167.60 lakh.



Addendum II

CEO AND CFO CERTIFICATION

To

The Board of Directors

Central Mine Planning & Design Institute Limited

We, Shekhar Saran, Chairman-cum-Managing Director and D. K. Rao, 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, 2016 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.
- c. To the best of our knowledge and belief, no transaction entered into by the company during the year ended 31st March, 2016 are fraudulent, illegal or violative of the company's code of conduct.
- d. 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.
- e. 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 FY-2015-16;
 - ii. There has not been any significant changes in accounting policies during the year; and
 - 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.

(D. K. Rao)
General Manager (Finance)

(Shekhar Saran)
Chairman-cum-Managing Director

Addendum- III

Form No. MGT-9
EXTRACT OF ANNUAL RETURN
as on the financial year ended on 31.03.2016

[Pursuant to section 92(3) *of the Companies Act, 2013* and rule 12(1) of the Companies
(Management and Administration) Rules, 2014]

I. REGISTRATION AND OTHER DETAILS:

- i. CIN: **U14292JH1975GOI 001223**
- ii. Registration Date: 01.11.1975
- iii. Name of the Company: CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED
- iv. Category / Sub-Category of the Company : MINI RATNA
- v. Address of the Registered office and contact details: GONDWANA PLACE, KANKE ROAD, RANCHI, JHARKHAND- 834008.
- vi. Whether listed company Yes / No : No
- vii. Name, Address and Contact details of Registrar and Transfer Agent, if any: N.A

II. PRINCIPAL BUSINESS ACTIVITIES OF THE COMPANY

All the business activities contributing 10 % or more of the total turnover of the company shall be stated:-

Sl. No.	Name and Description of main products /services	NIC Code of the Product/ service	% to total turnover of the company
1	MINE PLANNING & DESIGN	NOT APPLICABLE	30%
2	GEOLOGY & DRILLING	NOT APPLICABLE	65%
3	NATURAL RESOURCE MANAGEMENT AND FIELD SERVICES	NOT APPLICABLE	5%

III. PARTICULARS OF HOLDING, SUBSIDIARY AND ASSOCIATE COMPANIES -

Sl. No.	NAME AND ADDRESS OF THE COMPANY	CIN/GLN	HOLDING/ SUBSIDIARY / ASSOCIATE	% of shares held	Applicable Section
1	COAL INDIA LTD.	L23109WB1973GOI028844	HOLDING	100 %	92(1)(a)



IV. SHARE HOLDING PATTERN (Equity Share Capital Breakup as percentage of Total Equity)

i) Category-wise Share Holding

Category of Shareholders	No. of Shares held at the beginning of the year				No. of Shares held at the end of the year				% Change During the year
	Demat	Physical	Total	% of Total Shares	Demat	Physical	Total	% of Total Shares	
A. Promoters									
Indian									
(a) Individual /HUF	-	-	-	-	-	-	-	-	-
(b) Central Govt	-	-	-	-	-	-	-	-	-
(c) State Govt(s)	-	-	-	-	-	-	-	-	-
(d) Bodies Corp.	NIL	190400	190400	100%	NIL	190400	190400	100%	NIL
(e) Banks /FI	-	-	-	-	-	-	-	-	-
(f) Any others...	-	-	-	-	-	-	-	-	-
Sub Total (A)(1):	NIL	190400	190400	100%	NIL	190400	190400	100%	NIL
Foreign									
a) NRIs - Individuals	-	-	-	-	-	-	-	-	-
b) Other – Individuals	-	-	-	-	-	-	-	-	-
c) Bodies Corp.	-	-	-	-	-	-	-	-	-
(d)Banks /FI	-	-	-	-	-	-	-	-	-
(e)Any others...	-	-	-	-	-	-	-	-	-
Sub-total (A) (2):-	-	-	-	-	-	-	-	-	-
Total shareholding of Promoter (A) = (A)(1)+(A)(2)	NIL	190400	190400	100%	NIL	190400	190400	100%	NIL
B. Public Shareholding									
1. Institutions									
a) Mutual Funds	-	-	-	-	-	-	-	-	-
Banks / FI	-	-	-	-	-	-	-	-	-
Central Govt	-	-	-	-	-	-	-	-	-
d)State Govt(s)	-	-	-	-	-	-	-	-	-
e)Venture Capital Funds	-	-	-	-	-	-	-	-	-
h) Insurance Companies	-	-	-	-	-	-	-	-	-
FII's	-	-	-	-	-	-	-	-	-
Foreign Venture Capital Funds	-	-	-	-	-	-	-	-	-
i) Other (specify)	-	-	-	-	-	-	-	-	-
Sub-total (B)(1)	-	-	-	-	-	-	-	-	-
2. Non-Institutions									

Bodies Corp.									
Indian									
Overseas									
Individuals									
i) Individual shareholders holding nominal share capital upto Rs. 1 lakh	-	-	-	-	-	-	-	-	-
ii) Individual shareholders holding nominal share capital in excess of Rs 1 lakh	-	-	-	-	-	-	-	-	-
c) Others (specify)	-	-	-	-	-	-	-	-	-
Sub-Total (B)(2):-	-	-	-	-	-	-	-	-	-
Total Public Shareholding (B)=(B)(1)+(B)(2)	-	-	-	-	-	-	-	-	-
C. Shares held by Custodian for GDRs & ADRs	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Grand Total (A+B+C)	NIL	190400	190400	100%	NIL	190400	190400	100%	NIL

(ii) Shareholding of Promoters

Sl No.	Shareholder's Name	Shareholding at the beginning of the year			Shareholding at the end of the year			% change in shareholding during the year
		No. of Shares	% of total Shares of the company	% of Shares Pledged / encumbered to total shares	No. of Shares	% of total Shares of the company	% of Shares Pledged / encumbered to total shares	
1	COAL INDIA LTD.	190400	100%	-	190400	100%	-	No Change
	Total	190400	100%	-	190400	100%	-	No Change

(iii) Change in Promoters' Shareholding (please specify, if there is nochange)

Sl. No.		Shareholding at the beginning of the year		Cumulative Shareholding during the year	
		No. of shares	% of total shares of the company	No. of shares	% of total shares of the company
	At the beginning of the year	190400	100%	190400	100%
	Date wise Increase / Decrease in Promoters Shareholding during the year specifying the reasons for increase / decrease (e.g. allotment / transfer / bonus / sweat equity etc.):	No Change	No Change	No Change	No Change
	At the End of the year	190400	100%	190400	100%



(iv) Shareholding Pattern of top ten Shareholders (other than Directors, Promoters and Holders of GDRs and ADRs):

Sl. No.		Shareholding at the beginning of the year		Cumulative Shareholding during the year	
	For Each of the Top 10 Shareholders	No. of shares	% of total shares of the company	No. of shares	% of total shares of the company
	At the beginning of the year	-	-	-	-
	Date wise Increase / Decrease in Shareholding during the year specifying the reasons for increase / decrease (e.g. allotment / transfer / bonus / sweat equity etc.):	-	-	-	-
	At the End of the year (or on the date of separation, if separated during the year)	-	-	-	-

(v) Shareholding of Directors and Key Managerial Personnel:

Sl. No.		Shareholding at the beginning of the year		Cumulative Shareholding during the year	
	For Each of the Directors and KMP	No. of shares	% of total shares of the company	No. of shares	% of total shares of the company
	At the beginning of the year	1	0	1	0
	Date wise Increase / Decrease in Shareholding during the year specifying the reasons for increase / decrease (e.g. allotment / transfer / bonus / sweat equity etc.):	-	-	-	-
	At the End of the year	1	0	1	0

V. INDEBTEDNESS

Indebtedness of the Company including interest outstanding/accrued but not due for payment

	Secured Loans excluding deposits	Unsecured Loans	Deposits	Total Indebtedness
Indebtedness at the beginning of the financial year	NIL	NIL	NIL	NIL
i) Principal Amount	NIL	NIL	NIL	NIL
ii) Interest due but not paid	NIL	NIL	NIL	NIL
iii) Interest accrued but not due	NIL	NIL	NIL	NIL
Total (i+ii+iii)	NIL	NIL	NIL	NIL
Change in Indebtedness during the financial year	NIL	NIL	NIL	NIL
Addition	NIL	NIL	NIL	NIL
Reduction	NIL	NIL	NIL	NIL
Net Change	NIL	NIL	NIL	NIL
Indebtedness at the end of the financial year Principal Amount Interest due but not paid Interest accrued but not due				
Total (i+ii+iii)	NIL	NIL	NIL	NIL

VI. REMUNERATION OF DIRECTORS AND KEY MANAGERIAL PERSONNEL

A. Remuneration to Managing Director, Whole-time Directors and/or Manager:

Sl. No.	Particulars of Remuneration	Name of MD/WTD/ Manager							Total Amount
		Shri A.K. Debnath	Shri D.K. Ghosh	Shri R.K. Chopra	Shri Shekhar Saran	Shri V.K. Sinha	Shri Binay Dayal	Shri B.N. Shukla	
1	Gross salary	2109359	2260775	1882162	2604110	2630474	969839	1214505	13671224
	(a) Salary as per provisions contained in section 17(1) of the Income-tax Act, 1961	1768136	1991943	1677412	2153325	2234713	773339	1015251	11614119
	(b) Value of perquisites u/s 17(2) Income-tax Act, 1961	341223	268832	204750	450785	395761	196500	199254	2057105
	(c) Profits in lieu of salary under section 17(3) Income- tax Act, 1961	0	0	0	0	0	0	0	0
2	Stock Option	0	0	0	0	0	0	0	0
3	Sweat Equity	0	0	0	0	0	0	0	0
4	Commission	0	0	0	0	0	0	0	0
	- as % of profit	0	0	0	0	0	0	0	0
	- others, specify	0	0	0	0	0	0	0	0
5	Others, please specify (CMPF Employers' Contribution)	183317	187818	144927	253433	259998	76059	113289	1218841
	Total (A)	2292676	2448593	2027089	2857543	2890472	1045898	1327794	14890065
	Ceiling as per the Act								31320000

B. Remuneration to other directors:

Sl. no.	Particulars of Remuneration	Name of Directors					Total Amount
		Shri R.K. Mittal	Shri Rajender Parshad	Dr. Debasish Gupta	Shri D. N Prasad	Shri N. Kumar	
1	Independent Directors				N.A	N.A	
	Fee for attending board committee meetings	240000	90000	90000			420000
	Commission	0	0	0			0
	Others, please specify	0	0	0			0
	Total (1)	240000	90000	90000			420000
2	Other Non-Executive Directors						
	Fee for attending board committee meetings	0	0	0			0
	Commission	0	0	0			0
	Others, please specify	0	0	0			0
	Total (2)	0	0	0			0
	Total (B)=(1+2)	240000	90000	90000			420000
	Total Managerial Remuneration	0	0	0			15310065
	Overall Ceiling as per the Act	0	0	0			31320000



C. REMUNERATION TO KEY MANAGERIAL PERSONNEL OTHER THAN MD/MANAGER/WTD

Sl. No.	Particulars of Remuneration	Key Managerial Personnel			
		Company Secretary (upto 17.02.2016)	Company Secretary	CFO	Total
		Shri P Lazar	Shri Abhishek Mundhra	Shri D.K Rao	
1	Gross salary	2200338.8	1059891	2827266.24	6087496
	(a) Salary as per provisions contained in section 17(1) of the Income-tax Act, 1961	1860097.8	928540	2428686.24	5217324
	(b) Value of perquisites u/s 17(2) Income-tax Act, 1961	340241	131351	398580	870172
	(c) Profits in lieu of salary under section 17(3) Income-tax Act, 1961	0		0	0
2	Stock Option	0		0	0
3	Sweat Equity	0		0	0
4	Commission				
	- as % of profit	0		0	0
	- others, specify [CMPF Employers' Contribution]	216895	85894	284372	587161
5	Others, please specify	0		0	0
	Total	2417233.8	1145785	3111638.24	6674657

VII. PENALTIES / PUNISHMENT/ COMPOUNDING OF OFFENCES

Type	Section of the Companies Act	Brief Description	Details of Penalty / Punishment/ Compounding fees imposed	Authority [RD / NCLT/ COURT]	Appeal made, if any (give Details)
A. COMPANY					
Penalty	-	-	-	-	-
Punishment	-	-	-	-	-
Compounding	-	-	-	-	-
B. DIRECTORS					
Penalty	-	-	-	-	-
Punishment	-	-	-	-	-
Compounding	-	-	-	-	-
C. OTHER OFFICERS IN DEFAULT					
Penalty	-	-	-	-	-
Punishment	-	-	-	-	-
Compounding	-	-	-	-	-

Addendum IV**Auditor's Report on Compliance of conditions of Corporate Governance****CORPORATE GOVERNANCE CERTIFICATE**

CIN of the Company	:	U14292JH1975GOI001223
Nominal Capital	:	500,000,000.00 (Rupees Fifty Crores only)
Paid up Capital	:	190,400,000.00 (Rupees Nineteen Crores Four Lakh only)

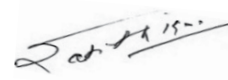
To,
The Members,
Central Mine Planning & Design Institute Limited
Gondwana Place, Kanke Road, Ranchi – 834008

We have examined the compliance conditions of Corporate Governance by Central Mine Planning & Design Institute Limited (the "Company") for the year ended on 31st March, 2016, 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:-

- 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.
- In our opinion and to the best of our information and according to the explanations given to us and the representations made by the Directors and the Management, we certify that the Company has taken steps for reviewing the Compliance of laws and the standards issued for ensuring good governance practices, in line with the provisions of the Companies Act, 2013 and the various modules and standards issued by The Institute of Company Secretaries of India in this regard.
- We 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



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

Place: Ranchi
 Date: 02.06.2016



Addendum V

Statutory Auditor's Report

Independent Auditor's Report(Revised)

To
The Members,
Central Mine Planning and Design Institute Limited

This Audit Report supersedes the earlier report dated 25.05.2016 and is being revised as per the directions of the Dy. Director of Commercial Audit & Ex-Officio member, Audit Board-II vide letter no.- 3rd Phase Accounts Audit – 2015-16, CMPDIL, Ranchi dated 02.06.2016.

Report on the Financial Statements

We have audited the accompanying financial statements of 'Central Mine Planning and Design Institute Limited ('the Company'), which comprise the balance sheet as at 31 March 2016, the statement of profit and loss and the cash flow statement for the year then ended, and a summary of significant accounting policies and other explanatory information.

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 Companies Act, 2013 ("the Act") with respect to the preparation and presentation of these financial statements that give a true and fair view of the financial position, financial performance and cash flows of the Company in accordance with the accounting principles generally accepted in India, including the Accounting Standards specified under Section 133 of the Act, read with Rule 7 of the Companies (Accounts) Rules, 2014. This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding the assets of the Company and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.



K C Tak & Co

Chartered Accountants, 1, New Anantpur, Doranda, Ranchi-2, Jharkhand

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit.

We have taken into account the provisions of the Act, the accounting and auditing standards and matters which are required to be included in the audit report under the provisions of the Act and the Rules made thereunder.

We conducted our audit in accordance with the Standards on Auditing specified under Section 143(10) of the Act. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and the disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal financial control relevant to the Company's preparation of the financial statements that give a true and fair view in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of the accounting estimates made by the Company's Directors, as well as evaluating the overall presentation of the financial statements.

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.

Opinion

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 Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India, of the state of affairs of the Company as at 31 March, 2016 and its profit and its cash flows for the year ended on that date.



K C Tak & Co

Chartered Accountants, 1, New Anantpur, Doranda, Ranchi-2, Jharkhand

Report on Other Legal and Regulatory Requirements

1. As required under Section 143(5) of the Companies Act, 2013, we give in the 'Annexure I', a Statement on the Directions/ Additional Directions issued by the Comptroller and Auditor General of India after complying the Suggested methodology of Audit, the action taken thereon and its impact on the accounts and 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 sub-section (11) of section 143 of the Act, we give in the Annexure 2, a statement on the matters specified in the paragraph 3 and 4 of the order.
3. As required by Section 143 (3) of the Act, 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 and the cash flow statement dealt with by this Report are in agreement with the books of account;
 - (d) in our opinion, the aforesaid financial statements comply with the Accounting Standards specified under Section 133 of the Act, read with Rule 7 of the Companies (Accounts) Rules, 2014;
 - (e) on the basis of the written representations received from the directors as on 31 March 2016 taken on record by the Board of Directors, none of the directors is disqualified as on 31 March 2016 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"; and
 - (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, in our opinion and to the best of our information and according to the explanations given to us:



K C Tak & Co

Chartered Accountants, 1, New Anantpur, Doranda, Ranchi-2, Jharkhand

- i. The Company has disclosed the impact of pending litigations on its financial position in its financial statements – Refer Note 34 to the financial statements;
- ii. As per the written representation received from the management, the company did not have any long-term contracts including derivative contracts for which there were any material foreseeable losses.
- iii. As per the 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 K C Tak & Co.**Chartered Accountants*

Firm's registration number: 000216C


CA Anil Jain*Partner*

Membership number: 079005

**Ranchi**

03/06/2016

K C Tak & Co

Chartered Accountants, 1, New Anantpur, Doranda, Ranchi-2, Jharkhand

Annexure – 2 to the Auditors' Report

The Annexure referred to in Independent Auditors' Report to the members of the '**Central Mine Planning and Design Institute Limited** on the financial statements for the year ended 31 March 2016, we report that:

i. In respect of Fixed Assets:

a. It was found that the Company has generally maintained proper records showing full particulars, including quantitative details and situation of fixed assets.

b. As informed to us, the major portion of the high value of fixed assets are physically verified by the management according to a phased programme of verification adopted by the Company. *It was observed that the company has deputed its duly constituted team to verify the fixed assets valuing more than Rs. 1.00 lakh. As per information and explanation given to us and as examined by us, there was no discrepancy noticed during such verification. In our opinion the management should also verify so as to cover the physical verification of all assets valuing less than Rs. 1.00 lakh at least once in a suitable periodic span of time. In respect of such assets valuing less than Rs 1.00 lakh, we are not in a position to comment upon deficiencies/discrepancies, if any.*

c. According to the information and explanations given to us and on the basis of our examination of the records of the Company, the title deeds of immovable properties are held in the name of the Company.

ii. In respect of inventories:

a. It was observed that the company has deputed outside agency to verify the stores and spare parts etc. for the period ending on 31st December 2015. In our opinion, the frequency of verification is reasonable. As per information and explanations given to us, the discrepancies noted on such verification were not material, has been properly dealt with in the accounts at the year end.

iii. According to the information and explanation given to us, the company has not granted any loans, secured or unsecured to companies, firms, Limited Liability Partnerships or other parties covered in the register maintained under section 189 of the Companies Act, 2013.



K C Tak & Co

Chartered Accountants, 1, New Anantpur, Doranda, Ranchi-2, Jharkhand

- iv. In our opinion and according to the information and explanations given to us, the Company has complied with the provisions of section 185 and 186 of the Act, with respect to the loans and investments made, wherever applicable.
- v. As per information and explanations given to us and as examined by us, the company has not accepted any such deposits. Accordingly, paragraph 3(v) of the Order is not applicable.
- vi. As per information and explanations given to us, the Central Government has not prescribed the maintenance of cost records under section 148(1) of the Act, for any of the product being dealt/services rendered by the Company.

vii. In respect of statutory dues:

- a. According to the information and explanations given to us and on the basis of our examination of the records of the Company, amounts deducted/ accrued in the books of account in respect of undisputed statutory dues including provident fund, income-tax, sales tax, value added tax, duty of customs, service tax, cess and other material statutory dues have been generally regularly deposited during the year by the Company with the appropriate authorities.

According to the information and explanations given to us, no undisputed amounts payable in respect of provident fund, income tax, sales tax, value added tax, duty of customs, service tax, cess and other material statutory dues were in arrears as at 31 March 2016 for a period of more than six months from the date they became payable.

- b. The disputed statutory dues, which the company has not been deposited on accounts of matters pending before appropriate authorities are as under:*

SL N o	Particulars	As on 31.0 3.20 16 (₹ in Crs)	As on 31.0 3.20 15 (₹ in Crs)



K C Tak & Co

Chartered Accountants, 1, New Anantpur, Doranda, Ranchi-2, Jharkhand

1	Income Tax – appeals filed by the Income Tax Deptt. before the ITAT for the assessment years from 1993-94 to 2007-08	2.45	2.45
2	Income Tax – appeals filed before the CIT(Appeals) for the assessment years from 2008-09 to 2012-13	20.61	20.61
3	Service Tax- Writ petition filed by the Company. before the Jharkhand High Court	5.46	-5.46
4	Service Tax – In respect of FY 2003-04, Department has appealed against order of CIT.	0.49	0.49
5	Service Tax- In respect of Service Tax Department Bhubaneswar	0.58	0.58
6	Service Tax- Service Tax claimed by OSHB Bhubaneswar	0.13	0.22
7	Entry Tax,- Appeal before Commisioner of Commercial Tax in respect of F Y 2002-3	0.17	0.17

- viii. The Company does not have any loans or borrowings from any financial institution, banks, government or debenture holders during the year. Accordingly, paragraph 3(viii) of the Order is not applicable.
- ix. The Company did not raise any money by way of initial public offer or further public offer (including debt instruments) and term loans during the year. Accordingly, paragraph 3 (ix) of the Order is not applicable.
- x. As represented by the management and according to the information and explanations given to us, no material fraud by the Company or on the Company by its officers or employees has been noticed or reported during the course of our audit.
- xi. According to the information and explanations give to us and based on our examination of the records of the Company, managerial remuneration has been paid or provided in accordance with the requisite approvals mandated by the provisions of section 197 read with Schedule V to the Companies Act.



K C Tak & Co

Chartered Accountants, 1, New Anantpur, Doranda, Ranchi-2, Jharkhand

- xii. In our opinion and according to the information and explanations given to us, the Company is not a nidhi company. Accordingly, paragraph 3(xii) of the Order is not applicable.
- xiii. According to the information and explanations given to us, exemption is granted to the company being state controlled enterprises as regards related party relationship with other state controlled enterprises. Transactions with the related parties are in compliance with sections 177 and 188 of Companies Act, 2013 and the details have been disclosed in the Financial Statements etc., as required by the applicable accounting standards, where applicable.
- xiv. According to the information and explanations given to us and based on our examination of the records of the Company, the Company has not made any preferential allotment or private placement of shares or fully or partly convertible debentures during the year.
- xv. According to the information and explanations given to us and based on our examination of the records of the Company, the Company has not entered into non-cash transactions with directors or persons connected with him. Accordingly, paragraph 3(xv) of the Order is not applicable.
- xvi. The Company is not required to be registered under section 45-IA of the Reserve Bank of India Act 1934.

for K C Tak & Co.

Chartered Accountants

Firm's registration number: 000216C



CA Anil Jain

Partner

Membership number: 079005



Ranchi

03/06/2016



Addendum VI

Secretarial Auditor's Report and replies of management

SECRETARIAL AUDIT REPORT

For The Financial Year Ended March 31, 2016

Satish Kumar & Associates
Company Secretaries
Flat No. 201, 2nd Floor, Urmila Apartment,
Uddhav Babu Lane, Tharpakhna,
Ranchi- 834001
Ph:- 09334606570/0651-2212943/0651-6571423
E-Mail:- cssatish26@gmail.com/cssservices26@gmail.com
PAN:-BGOPK8640M
ST:-BGOPK8640MSD001

[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 – 834008

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, 2016 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. 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.
4. Other Acts and Laws as applicable on the Company.

Secretarial Audit was conducted in a manner that provided us a reasonable basis for evaluating the Corporate Conducts/ Statutory Compliances of the Company and expressing our opinion thereon.

- 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, its Company Secretary 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. Contracts, Common Seal, Registered Office and publication of the name of the Company.
4. 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.
5. Convening and holding of the Meetings of Directors and Committees thereof.
6. Convening and holding of 40th Annual General Meeting of the Members on Monday, 22nd June, 2015.
7. Maintenance of Minutes of the proceedings of the Annual General Meeting, Extra-ordinary 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.
8. Payment of Remuneration to Directors.
9. Appointment and Remuneration of Auditors and Cost Auditors.
10. Composition and terms of reference of the Audit Committee and CSR and Sustainability Committee.
11. Service of Documents by the Company on its Members and Auditors.
12. Deposit of both the employees and employers contribution relating to Provident Fund with the trusts created for the purpose.
13. Generally all other applicable provisions of the Act and the rules made under the Act.

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. The Company has complied with the Guidelines on Corporate Governance for Central Public Sector Enterprises, 2010 subject to the provision in relation to composition of Board of Directors and appointment of Independent Directors in the Company.

MANAGEMENT'S RESPONSIBILITY

1. Maintenance of Secretarial Records is the responsibility of the management of the Company. Our responsibility is to express an opinion on these secretarial records based on our Audit.
2. We have followed the audit practices and the processes as were appropriate to obtain 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, we followed provide a reasonable basis for our opinion.



3. We have not verified the correctness and appropriateness of financial records and Books of Accounts of the Company.
4. Wherever required, we have obtained the Management Representation about the compliance of laws, rules and regulations, happening of events, etc.
5. 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.
6. 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.

During the Audit Period, the Company has complied with the provisions of the Act, Rules, Regulations, Guidelines, etc. mentioned above subject to the observations as detailed in the annexure that follows.

For Satish Kumar & Associates

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

Place: Ranchi
Date:02.06.2016

ANNEXURE

REMARKS OF SECRETARIAL AUDITOR AND EXPLANATION BY MANAGEMENT

Sl. No.	OBSERVATIONS	EXPLANATION
1.	The Company needs to have Five (5) Independent Directors including a woman director, but as on the date of report the company has only three independent directors in its board and no woman director has been appointed.	The Company has made various communications with the Ministry of Coal for appointment of the required number of Independent Directors including a woman director; However as reported to us, the compliance in this regard is pending on the part of the Ministry of Coal.

Addendum VII

Comments of the Comptroller and Auditor General of India



No. 194/PSCA-II/A/c Audit/CMPDIL/2015-16

कार्यालय प्रधान निदेशक वाणिज्यिक लेखापरीक्षा तथा पदेन सदस्य लेखापरीक्षा

बोर्ड - II कोलकाता

पुराना निजाम महल, आचार्य जगदीश चन्द्र बोस रोड,

कोलकाता - 700 020

OFFICE OF THE PRINCIPAL DIRECTOR OF
COMMERCIAL AUDIT & EX-OFFICIO MEMBER
AUDIT BOARD - II, KOLKATAOld Nizam Palace, 234/4, Acharya Jagadish Chandra Bose Road,
Kolkata-700 020

Date 22/06/2016

To
The Chairman-cum-Managing Director,
Central Mine Planning & Design Institute Limited,
Gondwana Place, Kanke Road
Ranchi - 834008.

Sub: 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 31st March 2016.

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 31st March 2016.

The receipt of this letter may please be acknowledged.

Yours faithfully,

(Praveer Kumar)

Principal Director of Commercial Audit
& Ex-Officio Member, Audit Board-II
Kolkata

Encl: As stated.

Place: Kolkata

Dated: 2 June 2016



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 2016.

The preparation of financial statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2016 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 03.06.2016.

I, on behalf of the Comptroller and Auditor General of India, have conducted a supplementary audit under section 143(6)(a) of the Act of the financial statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2016. 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 audit nothing significant has come to my knowledge which would give rise to any comment upon or supplement to statutory auditors' report.

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

(Praveer Kumar)

Principal Director of Commercial Audit
& Ex-Officio Member, Audit Board-II
Kolkata

Place: Kolkata
Dated: 22 June 2016

Addendum VIII**Contracts or Arrangements with related parties U/s 188 (1)-Form AOC-2****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	
a	Name(s) of the related party and nature of relationship	Nil
b	Nature of contracts/arrangements/transactions	N.A.
c	Duration of the contracts/arrangements/transactions	N.A.
d	Salient terms of the contracts or arrangements or transactions including the value, if any	N.A.
e	Justification for entering into such contracts or arrangements or transactions	N.A.
f	Date(s) of approval by the Board	N.A.
g	Amount paid as advances, if any:	N.A.
h	Date on which the special resolution was passed in general meeting as required under first proviso to section 188	N.A.
2.	Details of material contracts or arrangement or transactions at arm's length basis	
a	Name (s) of the related party and nature of relationship	Nil
b	Nature of contracts/arrangements/transactions	N.A.
c	Duration of the contracts/arrangements/transactions	N.A.
d	Salient terms of the contracts or arrangements or transactions including the value, if any:	N.A.
e	Date(s) of approval by the Board if any:	N.A.
f	Amount paid as advances, if any	N.A.

Date : 27.06.2016
Place : Ranchi

Sd/-
(Shekhar Saran)
Chairman-cum- Managing Director

Addendum IX

Memorandum of Understanding 2015-2016

Statement of actual Performance Evaluation of Financial Parameters and Non-Financial Parameters vis-à-vis revised target approved by the Board of CMPDIL for the financial year 2015-16												
SUBSIDIARY: CMPDI												
	Evaluation Criteria	Unit Excellent (5)	Weight (in %) Very Good (4)	MoU Target			Documentary evidence and source / origin of documents Score	Performance Weighted	Raw	Proposed		
				Good	Fair	Poor						(Actual)
				(3)	(2)	(1)						
1	Static / Financial Parameters											
	Mandatory Parameters											
	(i) Growth/Size/Activity											
	(a)	Sales Turnover (Net Sales)	Rs. Cr.	10	852.38	800.93	760.88	722.84	686.70	759.27	2.96	29.58
	(b)	Gross Operating Margin Rate	Ratio	10	0.1227	0.1143	0.1086	0.1032	0.0980	0.1205	4.74	47.38
	(ii) Profitability											
	(a)	PAT/Net Worth	Ratio	5	0.1212	0.1165	0.1107	0.1051	0.0999	0.1447	5.00	25.00
	(b)	EBITDA/Net Block	Ratio	7	0.4089	0.3930	0.3734	0.3547	0.3369	0.5066	5.00	35.00
	(iii) Cost and Output Efficiency											
	(a)	Sales Turnover/ Net Block	Ratio	10	6.4830	6.0917	5.7871	5.4978	5.2229	7.5935	5.00	50.00
	Optional Parameters											
	(iv) Efficiency of Asset Use											
	(a)	Debtor Turnover Ratio (Average Collection Period)	No. of Days	8	162.31	176.26	185.07	194.33	204.04	100.83	5.00	40.00
		Sub Total		50								
	Note:											
	1. Accounting head considered for Computation of Gross Operating Margin has been given in Appendix-I and the same methodology will be considered at the time of evaluation.											
2	Dynamic /non-financial Parameters											
	(i)	Research and Development		4						Independent Expert Report / Annual Report		
	(a)	Design, Develop and Demonstrate a Micro-Grid system for optimization and control of Multiple source of power supply										
		Performance evaluation report of solar plant submitted by	Date	2	31st July '15	15th Aug. '15	31st Aug. '16	15th Sept. '15	30th Sept. '15	29th June '15	5.00	10.00
	(b)	Development of guidelines to predict distance between toe of the Shovel-Dumper dump and that of Dragline dump with consideration of safety and economical design of both Shovel-Dumper dump and Dragline dump										

		Determination of optimum distance between shovel-dumper dump and dragline dump of 8 dragline mines completed by	Date		2	15th Nov.'15	30th Nov.'15	15th Dec.'15	31st Dec.'15	15th Jan.'16		16th Oct.'15	5.00	10.00
	(iii)	Initiatives for Growth									Annual Report			
	(a)	Physical targets/output		10										
	(i)	Drilling	000 Meters			986.00	858.00	808.85	755.91	714.11		993.76		
	(ia)	Departmental	000 Meters	4		400.00	375.00	350.00	320.00	300.00		408.07	5.00	20.00
	(ib)	Outsourced	000 Meters	2		586.00	483.00	458.85	435.91	414.11		585.69	5.00	9.99
	(ii)	Geological Reports	No.	4		14	13	12	11	10		17	5.00	20.00
	(iv)	Project Management & Implementation												
	(a)	Capacity Addition		8										
	(i)	Project Report Preparation (including NPV/Intrinsic Value calculation Report)	Nos.		8	26	24	22	20	18		26	5.00	40.00
	(v)	Productivity and Internal Processes												
	(c)	Measures taken to increase efficiency and productivity of manpower/resources		10										
	i)	Addition/Replacement of Drills (Hydrostatic & new mechanical drills) to improve drill productivity	Nos.		4	3	2	1	-	-		6	5.00	20.00
	ii)	Benchmarking of Drilling Productivity of CMPDI by some reputed institution like National Productivity Council	Completion date		2	1st Mar.'16	9th Mar.'16	17th Mar.'16	24th Mar.'16	31st Mar.'16		26th Feb.'16	5.00	10.00
	iii)	Review HEMM machine utilisation norms for all subsidiaries of CIL	Completion date		4	30th June '15	15th July '15	31st July '15	14th Aug.'15	31st Aug.'15		28th May '15	5.00	20.00
	(vii)	Technology, Quality, Innovative practices									Annual Report			
	(a)	New Technologies / improving existing ones / other innovative practices		4										
	i)	Implementation of ISO 27001 (Information Security System) for two of the Regional Institutes of CMPDI	Completion date		4	31st Jan.'16	15th Feb.'16	29th Feb.'16	10th Mar.'16	20th Mar.'16		30th Jan.'16	5.00	20.00
	(vii)	Human Resource Management		4							Independent HR Auditor Report / Annual Report			
	(i)	Training in Mine Planning software	No of Executives		4	20	16	12	8	4		75	5.00	20.00
		Sub Total		40										
3	Sector Specific Parameters													
	(i)	EIA/EMP (including Form-I)	No.		4	32	31	29	27	25		50	5.00	20.00
	(ii)	Other Reports including operational plans	No.		4	124	118	112	106	101		167	5.00	20.00
	(iii)	Preparation of Perspective Plan / Roadmap as to how CMPDI's business income from Clients outside CIL & MoC could increase in future	Completion date		2	30th Oct.'15	15th Nov.'15	30th Nov.'15	15th Dec.'15	31st Dec.'15		30th Oct.'15	5.00	10.00
		Sub Total		10										476.95

	Grand Total	100							Score	95.39
Remarks:										
1. The shortfall in drilling through outsourcing was mainly due to adverse law & order and non-availability of forest clearances (constraints entirely beyond the control of CMPDI) resulting in a loss of 5.14 lakh metre in outsourced blocks during 2015-16. For Very Good target, corresponding loss of 4.42 lakh m has been considered. The MoU between CMPDI & CIL for 2015-16 (refer foot note sl. no.1 below) stipulates that at the time of MoU evaluation, drilling targets adversely affected due to non-removal of constraints entirely beyond the control of CMPDI despite its best efforts would be identified from the PERT chart (enclosed as Annexure-IIA) and accordingly Financial and non-Financial Parameters will be evaluated. Accordingly, the target has been revised to 586 thousand metres (Excellent) and 483 thousand metres (Very Good) in respect of outsourced drilling.										
2. The targets for financial parameters have accordingly been revised based on the revision in the outsourced drilling target i.e. 586 thousand metres for Excellent and 483 thousand metres for Very Good target.										
3. Target of Gross Operating Margin Rate has been revised to 0.1227 (Excellent), 0.1143 (Very Good) and subsequently targets have been reduced by 5% taking into consideration (i) the typographical mistake in typing CSR expenditure as Rs. 75 crore in place of Rs. 75 lakhs due to which "Administration Costs & including CSR (sl.no. 3.1 of Income-Expenditure Statement of MoU" increased from Rs.53.06 crore to Rs.127.31 and from Rs.42.33 crore to Rs.116.58 crore and (iii) the offset in outsourced drilling targets as 5.14 lakh m for Excellent and 4.42 lakh m for Very Good. Request for incorporation of correction in MoU target of Gross Operating Margin Rate was made to Director (MoU), DPE and Adviser (Economic), MoC vide letter No.CMPDI.TS:2015:71:E-3612 dated 26.12.2015.										
Note:										
1. At the time of MoU evaluation, drilling targets adversely affected due to non-removal of constraints entirely beyond the control of CMPDI despite its best efforts would be identified from the PERT chart (PERT Chart with detailing of coal blocks submitted as Annexure-IIA) and accordingly Financial and non-Financial Parameters will be evaluated.										
2. Negative Marking for Non-compliance of Corporate Governance: DPE has issued guidelines on Corporate Governance vide OM No. 18(8)/2005-GM dated 14th May 2010. Non-Compliance of Corporate Governance will lead to negative marking and the MoU score will be decreased. If a CPSE fails to submit the self-evaluation report of Corporate Governance through Administrative Ministry/Department or directly to DPE within the timelines, CPSE would be graded as not complied and the same would be rated as poor rating.										
3. Negative Marking for Non-compliance of other Guideline/Regulations:										
a) Procurement from MSME: CPSEs will have to follow the Public Procurement Policy for Micro, Small and Medium Enterprises (MSMEs) Order issued vide D.O. No. 21(1)/2011/-M.A. dated April 25, 2012 and non-compliance with the aforesaid order will be penalised upto 1 mark.										
b) Non-Compliance of DPE Guidelines: CPSE have to give a certificate regarding implementation of Guidelines issued by DPE within prescribed timelines and format specified through its administrative ministry/department as per details in OM No.DPE/14(38)/10-Fin, dated 28th June, 2011 & 15th Sep,2014. Non-compliance of DPE Guidelines determined on the basis of certificate submitted will be penalised upto 1 mark.										
c) Non-Compliance of CSR Guidelines: CPSE will have to submit a certificate regarding compliance of Act, Rules & Guidelines issued by DPE in this regards. Non-compliance will be penalised upto 1 mark at the time of MoU evaluation.										
d) Other Non-Compliance: Non-compliance of any directives of Govt. including submission of data for Public Enterprise (PE) Survey, MOSPI data updation on their website, etc. and non-compliance of requirement of regulators in serious cases may be penalised upto 1 mark depending on the degree and seriousness of non-compliance. CPSE will have to give a certificate regarding compliance of directives of Govt. and requirement of regulators (Annexure VIII).										
e) All internal documents to be signed at least by a Functional Director of the Board.										

Statement of actual Performance Evaluation of Financial Parameters and Non-Financial Parameters vis-à-vis target in MoU of CMPDIL for the financial year 2015-16														
SUBSIDIARY: CMPDI														
Evaluation Criteria		Unit Excellent (5)	Weight (in %) Very Good (4)	MoU Target				Documentary evidence and source / origin of documents Score	Performance	Raw	Proposed			
				Good (3)	Fair (2)	Poor (1)	(Actual)							
Static / Financial Parameters														
Mandatory Parameters														
(i) Growth/Size/Activity														
(a) Sales Turnover (Net Sales)		Rs. Cr.	10	1030.95	949.25	883.74	839.55	Annual Report	759.27	1.00	10.00			
(b) Gross Operating Margin Rate		Ratio	10	0.1068	0.1005	0.0955	0.0907		0.1205	5.00	50.00			
(ii) Profitability														
(a) PAT/Net Worth		Ratio	5	0.1374	0.1277	0.1092	0.1037		0.1447	5.00	25.00			
(b) EBITDA/Net Block		Ratio	7	0.4508	0.4218	0.3820	0.3629		0.5066	5.00	35.00			
(iii) Cost and Output Efficiency														
(a) Sales Turnover/Net Block		Ratio	10	7.8411	7.2197	6.6927	6.3581	Annual Report	7.5935	4.60	46.02			
Optional Parameters														
(iv) Efficiency of Asset Use														
Debtor Turnover (a) Ratio (Average Collection Period)		No. of Days	8	146.92	161.49	179.46	188.43		100.83	5.00	40.00			
Sub Total			50											
Note:														
1. Accounting head considered for Computation of Gross Operating Margin has been given in Appendix-I and the same methodology will be considered at the time of evaluation.														
Dynamic /non-financial Parameters														
(i)	Research and Development		4	Independent Expert Report / Annual Report										
(a)	Design, Develop and Demonstrate a Micro-Grid system for optimization and control of Multiple source of power supply													
	Performance evaluation report of solar plant submitted by	Date	2	31st July '15	15th Aug. '15	31st Aug. '16	15th Sept. '15	30th Sept. '15	29th June '15	5.00	10.00			
(b)	Development of guidelines to predict distance between toe of the Shovel-Dumper dump and that of Dragline dump with consideration of safety and economical design of both Shovel-Dumper dump and Dragline dump													
	Determination of optimum distance between shovel-dumper dump and dragline dump of 8 dragline mines completed by	Date	2	15th Nov.'15	30th Nov.'15	15th Dec.'15	31st Dec.'15	15th Jan.'16	16th Oct.'15	5.00	10.00			

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Remarks:	1. The shortfall in drilling through outsourcing was mainly due to adverse law & order and non-availability of forest clearances (constraints entirely beyond the control of CMPDI) resulting in a loss of 5.14 lakh m in outsourced blocks during 2015-16. Under 'Very Good' target loss of 4.42 lakh m has been considered. 2. Target of Gross Operating Margin Rate has been revised from 0.1789 to 0.1038 (Excellent), 0.1787 to 0.1005 (Very Good) and subsequently targets have been reduced by 5%. This was because of typographical mistake in typing CSR expenditure as Rs.75 crore in place of Rs.75 lakhs due to which "Administration Costs & including CSR (sl.no. 3.1 of Income-Expenditure Statement of MoU)" increased from Rs.53.06 crore to Rs.127.31 and from Rs.42.33 crore to Rs.116.58 crore and hence the Gross Operating Margin Rate was inflated. Request for incorporation of correction in MoU target of Gross Operating Margin Rate was made to Director (MoU), DPE and Adviser (Economic), MoC vide letter No.CMPDI:TS:2015:71-E-3612 dated 26.12.2015.
Note:	1. At the time of MoU evaluation, drilling targets adversely affected due to non-removal of constraints entirely beyond the control of CMPDI despite its best efforts would be identified from the PERT chart (PERT Chart with detailing of coal blocks submitted as Annexure-1IA) and accordingly Financial and non-Financial Parameters will be evaluated. 2. Negative Marking for Non-compliance of Corporate Governance: DPE has issued guidelines on Corporate Governance vide OM No.18(8)/2005-GM dated 14th May 2010, Non-Compliance of Corporate Governance will lead to negative marking and the MoU score will be decreased. If a CPSE fails to submit the self-evaluation report of Corporate Governance through Administrative Ministry/Department or directly to DPE within the timelines, CPSE would be graded as not complied and the same would be rated as poor rating. 3. Negative Marking for Non-compliance of other Guideline/Regulations: a) Procurement from MSME: CPSEs will have to follow the Public Procurement Policy for Micro, Small and Medium Enterprises (MSMEs) Order issued vide D.O. No. 21(1)/2011/-M.A. dated April 25, 2012 and non-compliance with the aforesaid order will be penalised upto 1 mark. b) Non-Compliance of DPE Guidelines: CPSE have to give a certificate regarding implementation of Guidelines issued by DPE within prescribed timelines and format specified through its administrative ministry/department as per details in OM No.DPE/14(38)/10-Fin, dated 28th June, 2011 & 15th Sep.2014, Non-compliance of DPE Guidelines determined on the basis of certificate submitted will be penalised upto 1 mark. c) Non-Compliance of CSR Guidelines: CPSE will have to submit a certificate regarding compliance of Act, Rules & Guidelines issued by DPE in this regards. Non-compliance will be penalised upto 1 mark at the time of MoU evaluation. d) Other Non-Compliance: Non-compliance of any directives of Govt. including submission of data for Public Enterprise (PE) Survey, MOSPI data updation on their website, etc. and non-compliance of requirement of regulators in serious cases may be penalised upto 1 mark depending on the degree and seriousness of non-compliance. CPSE will have to give a certificate regarding compliance of directives of Govt. and requirement of regulators (Annexure VIII).
	e) All internal documents to be signed at least by a Functional Director of the Board.



Addendum X

ANNEXURE FORMING PART OF DIRECTORS' REPORT FOR THE YEAR ENDED 31.03.2016-INFORMATION AS PER RULES 5(2) OF THE COMPANIES ACT, 2013 READ WITH COMPANIES (Appointment and Remuneration of Managerial Personnel) , Rules 2014.

SL No.	Name	Designati-on/nature of work	Remuneration During the year (Rs.)	Nature of employment Permanent / temporary	Qualification	Experience (yrs.)	Date of commencement	Age on 31st Mar 2015 (Yrs)	Last employ-ment held	% of eq. Shares held	Whether related to Dir./ Manager
1	2	3	4	5	6	7	8	9	10	11	12
(a)	<p>Employed throughout the financial year under review and were in receipt of remuneration for that financial year in the aggregate of not less than Rs.60, 00,000/-.</p> <p>-----Nil-----</p>										
(b)	<p>Employed for the part of the financial year under review and were in receipt of remuneration for any part of that financial year at a rate which in the aggregate was not less than Rs. 5, 00,000/- per month.</p> <p>----- Nil -----</p>										
(c)	<p>Employed throughout the year or part and was in receipt of remuneration in excess of that drawn by MD/WTG/Manager and holds not less than two percent of equity shares of the company.</p> <p>----- Nil -----</p>										

Addendum – XI

Annexure to CSR Report

Expenditure incurred on CSR & Sustainability account (2015-16):

The expenditure incurred on CSR & sustainability account during 2015-16 was to the tune of Rs. 200.72 Lakhs against the total budget of Rs. 200 Lakhs. The expenditure incurred during 2014-15 was Rs. 180.92 Lakhs.

CSR Budget & Expenditure for the year 2015-16 against 2% of average net profit of the company, which comes to Rs. 46.44 lakhs only. After the approval of CMPDI Board, the allotted fund was Rs. 200 lakhs for CSR & Sustainability activities for the year 2015-16.

CSR Budget & Expenditure for the year 2015-16			
Unit	Budget * (Rs. In Lakhs)	Expenditure on CSR & Sustainability (Rs. In Lakhs)	Expenditure on CSR (Rs. In Lakhs)
HQ	47.94	50.72	50.72
RI-I	23.89	23.74	23.74
RI-II	3.00	3.01	3.01
RI-III	16.34	15.87	15.87
RI-IV	33.79	27.01	27.01
RI-V	48.02	44.18	44.18
RI-VI	13.45	12.40	12.40
RI-VII	24.25	23.79	22.64
Total	210.68	200.72	199.57

* CSR Budget limited to Rs. 200 Lakhs only.

CSR activities wise Expenditure for the year 2015-16

Sl. No.	Activity	Expenditure on CSR & Sustainability (Rs. In Lakhs)	Expenditure on CSR (Rs. In Lakhs)
1	Education	36.78	36.78
2	Infrastructure	143.04	143.04
3	Water Supply	3.39	3.39
4	Healthcare	10	10
5	Sustainability	1.15	-
6	Skill Development / Women Empowerment	2.07	2.07
7	Social Development	2.97	2.97
8	Sports	0.53	0.53
7	Others	0.79	0.79
	Total	200.72	199.57

The implementation and monitoring of CSR policy, is in compliance with CSR objective and policy of the Company.

Sd/-
Chairman, CSR Committee

Sd/-
Chairman-cum-Managing Director



ANNUAL ACCOUNTS 2015-16

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

Balance Sheet as at 31st March, 2016

₹ In Crores

		Notes		As at 31-03-2016 (Audited)		As at 31-03-2015 (Audited)
I	EQUITY AND LIABILITIES					
(1)	Shareholders' Fund					
	a) Share Capital	1	19.04		19.04	
	b) Reserves & Surplus	2	195.94	214.98	159.02	178.06
(2)	Share Application money pending allotment					
(3)	Non-Current Liabilities					
	a) Long Term Borrowing	3	-		-	
	b) Deferred Tax Liability (Net)		-		-	
	c) Other Long Term Liabilities	4	-		-	
	d) Long Term Provisions	5	195.92	195.92	225.74	225.74
(4)	Minority Interest			-		-
(5)	Current Liabilities					-
	a) Short Term Borrowing	6	-		-	
	b) Trade Payables	7	0.99		0.77	
	c) Other Current Liabilities	8	236.72		195.63	
	d) Short Term Provisions	9	312.56		309.41	
				550.27		505.81
	Total			961.17		909.61
II	ASSETS					
(1)	Non-Current Assets					
	(a) Fixed Assets	10A				
	i) Tangible Assets - Gross Block		225.21		195.92	
	Less : Depreciation, Impairment & Provisions		128.07		119.62	
	Net Carrying Value			97.14		76.30
	ii) Intangible Assets - Gross Block	10A	7.84		7.55	
	Less : Depreciation, Impairment & Provisions		4.99		3.02	
	Net Carrying Value			2.85		4.53
	iii) Capital Work-in-Progress	10B		61.44		29.44
	iv) Intangible Assets under Development	10C		-		-
	(b) Non-Current Investment	11		-		-



Central Mine Planning & Design Institute Limited

	(c)Deferred Tax Assets (Net)			100.47		106.43
	(d) Long Term Loans & Advances	12		11.02		4.07
	(e) Other Non-Current Assets	13		0.02		0.02
			1			
(2)	Current Assets					
	(a) Current Investments	14	-		-	
	(b) Inventories	15	7.41		6.10	
	(c) Trade Receivables	16	248.24		236.36	
	(d) Cash & Cash equivalents	17	124.30		85.92	
	(e) Short Term Loans & Advances	18	308.23		360.39	
	(f) Other Current Assets	19	0.05		0.05	
				688.23		688.82
	Total			961.17		909.61

Significant Accounting Policies 33

Additional Notes on Accounts 34

The Notes referred to above form an integral part of Statement of Profit & Loss

Sd/-
(A.Mundhra)
Company Secretary

Sd/-
(D. K. Rao)
General Manager (Finance)

Sd/-
(V. K. Sinha)
Director
DIN-06793778

Sd/-
(Shekhar Saran)
Chairman-cum-Managing Director
DIN-06607551

In terms of our report of even date attached
For K.C.Tak & CO.
Chartered Accountants
Firm Registration No. : 000216C

Date : 25th May, 2016
Place : Kolkata

Sd/-
(CA Anil Jain)
PARTNER
Membership No. : 079005

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

Statement of Profit & Loss for the Period Ended 31st March, 2016

₹ In Crores

	INCOME	Notes	For the Year ended 31-03-2016 (Audited)		For the year ended 31-03-2015 (Audited)	
I	Revenue From Operations					
	A) Sale of Services		877.13		816.54	
	Less : - Excise Duty		-		-	
	Other Levies		117.86		89.82	
	Net Sales			759.27		726.72
	B) Other Operating Income(Net)			-		-
	Revenue from Operations (A+B)	20		759.27		726.72
II	Other Income	21		5.08		5.48
III	Total Revenue (I+II)			764.35		732.20
IV	EXPENSES					
	Cost of Material Consumed	22		21.92		21.43
	Change in inventories of finished goods work in progress and Stock in trade	23		-		-
	Employee Benefit Expenses	24		412.40		402.73
	Power & Fuel			3.55		2.97
	CSR Expenses	25		2.01		1.68
	Repairs	26		19.90		15.22
	Contractual Expenses	27		205.09		191.09
	Finance Costs	28		0.24		0.24
	Depreciation/Amortization/Impairment			12.66		10.32
	Provisions	29		(0.11)		(0.07)
	Write off	30		-		-
	Overburden Removal Adjustment			-		-
	Other Expenditure	31		48.93		47.25
	Total Expenses			726.59		692.86
V	Profit/Loss before Exceptional & Extraordinary Items & Tax			37.76		39.34
VI	Prior Period Adjustment { Charges/ (Incomes) }	32		(4.78)		0.01
VII	Exceptional Items			-		-
VIII	Profit/ (Loss) before Extraordinary Items and Tax(V-VI-VII)			42.54		39.33
IX	Extraordinary Items { Charges/ (Incomes) }			-		-
X	Profit/ (Loss) Before Tax (VIII-IX)			42.54		39.33



Central Mine Planning & Design Institute Limited

X	Profit/ (Loss) Before Tax (VIII-IX)			42.54		39.33
XI	Less : Tax Expenses					
	- Current Year			8.10		19.13
	- Deferred Tax			5.96		[4.84]
	- Earlier Years			-		-
XII	Profit/ (Loss) For the Year From Continuing operation (X-XI)			28.48		25.04
XIII	Profit from discontinuing operations			-		-
XIV	Tax expenses of discontinuing operations			-		-
XV	Profit from discontinuing operations (after tax) (XIII-XIV)			-		-
XVI	Profit for the Year (XII+XV)			28.48		25.04
	Earning Per Equity Share (in ₹)					
	(Face Value of 1000/- per share)					
	(1) Basic (in ₹)			1496.00		1315.00
	(2) Diluted (in ₹)			1496.00		1315.00

Significant Accounting Policies 33

Additional Notes on Accounts 34

The Notes referred to above form an integral part of Statement of Profit & Loss

Sd/-
(A.Mundhra)
Company Secretary

Sd/-
(D. K. Rao)
General Manager (Finance)

Sd/-
(V. K. Sinha)
Director
DIN-06793778

Sd/-
(Shekhar Saran)
Chairman-cum-Managing Director
DIN-06607551

In terms of our report of even date attached

For K.C.Tak & CO.

Chartered Accountants

Firm Registration No. : 000216C

Date : 25th May, 2016

Place : Kolkata

Sd/-
(CA Anil Jain)
PARTNER
Membership No. : 079005

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET

NOTE - 1

₹ In Crores

	SHARE CAPITAL		
		As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	Authorised		
(i)	500000 Equity Shares of ₹1000/- each	50.00	50.00
		-	-
		50.00	50.00
	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)	-	-
	85392 Equity Shares of ₹1,000/- each allotted as fully paid up for consideration received other than cash (Previous Year 85392 Equity Shares of ₹1,000/- each)	8.54	8.54
	105000 Equity Shares of ₹1000/- each allotted as fully paid for Cash to Holding Company by converting loan in equity	10.50	10.50
		19.04	19.04
Note			
1.1	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	190400	100%



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 2

₹ In Crores

	RESERVES & SURPLUS		
		As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	RESERVES :		
A)	Capital Reserve		
	As per last Balance Sheet	9.73	12.59
	Add: Addition during the year	10.04	0.27
	Less: Adjustment During the year	1.60	3.13
	Total (A)	18.17	9.73
B)	Capital Redemption Reserve		
	As per last Balance Sheet		
	Add: Addition during the year		
	Less: Adjustment During the year	-	-
	Total (B)	-	-
C)	Reserve for Foreign Exchange Transactions		
	As per last Balance Sheet	-	-
	Add: Addition during the year	-	-
	Less: Adjustment During the year	-	-
	Total (C)	-	-
D)	CSR Reserve		
	As per last Balance Sheet	-	-
	Add: Addition during the year	-	-
	Less: Transfer to General Reserve	-	-
	Total (D)	-	-
E)	Sustainable Development Reserve		
	As per last Balance Sheet	-	0.03
	Add: Addition during the year	-	-
	Less: Transfer to General Reserve	-	0.03
	Total (E)	-	-
F)	General Reserve		
	As per last Balance Sheet	5.77	5.74
	Add: Transfer from CSR/SD Reserve	-	0.03
	Add:/ Less: Adjustment During the year	-	-

	Total (F)	5.77	5.77
G)	Surplus in Profit & Loss Account		
	As per last Balance Sheet	143.52	118.48
	Profit/(Loss) after Tax During the Year	28.48	25.04
	Profit/(Loss) available for Appropriation	172.00	143.52
	LESS APPROPRIATION		
	Reserve for Foreign Exchange Transaction	-	-
	Transfer to General Reserve	-	-
	Transfer to CSR Reserve	-	-
	Interim Dividend	-	-
	Proposed Dividend on Equity Shares	-	-
	Corporate Dividend Tax	-	-
	Total (G)	172.00	143.52
	Miscellaneous Expenditure		
	(to the extent not written off)		
	Preliminary Expenses	-	-
	Pre-Operational Expenses	-	-
	Total(A+B+C+D+E+F+G)	195.94	159.02

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 Crores

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	2.55	0.05	0.07	-	6.16	0.83	0.07	9.73
Addition	1.46				8.36	0.22		10.04
	4.01	0.05	0.07	-	14.52	1.05	0.07	19.77
Less : Depreciation & Adjustment	0.49		0.01		0.54	0.54	0.02	1.60
TOTAL AS ON 31-03-2016	3.52	0.05	0.06	-	13.98	0.51	0.05	18.17
TOTAL AS ON 31.03.2015	2.55	0.05	0.07	-	6.16	0.83	0.07	9.73



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 3

₹ In Crores

	LONG TERM BORROWING	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
A)	Term Loan	-	-
B)	Loan From Coal India Limited	-	-
	Total (A+B)	-	-
	CLASSIFICATION 1		
	Secured	-	-
	Unsecured	-	-
	CLASSIFICATION 2		
	Loan Guaranteed by directors & others		
	Particulars of Loan	Amount ₹ in crores	Nature of Guarantee
		NIL	NIL

NOTE - 4

	OTHER LONG TERM LIABILITIES	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	Shifting & Rehabilitation Fund		
	Opening Balance	-	-
	Add: Interest from Investment of the fund	-	-
	Add: Contribution Received	-	-
	Less : Amount utilised	-	-
		-	-
	Trade Payable		
	Security Deposits	-	-
	Others (Specify Nature)	-	-
	Total	-	-

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 5

₹ In Crores

	LONG TERM PROVISIONS			As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	For Employee Benefits				
	- Gratuity			66.49	98.22
	- Leave Encashment			70.40	70.15
	- Other Employee Benefits			59.03	57.37
	For Foreign Exchange Transactions (Marked to Market)			-	-
	OBR Adjustment Account			-	-
	Mine Closure			-	-
	For Others			-	-
	TOTAL			195.92	225.74
5.1	The Position of various provisions is given below:				
	Provisions	Opening Balance	Addition/ Write back during the Year	Paid/ Adj during Year	Closing Balance
		01.04.2015			31-03-2016
i	For Gratuity	98.22	-	31.73	66.49
ii	For Leave Encashment	70.15	0.25	-	70.40
iii	For Other Employee Benefits	57.37	1.66	-	59.03
iv	For OBR Adjustment Account	-	-	-	-
v	For Mine Closure Plan	-	-	-	-
5.2	Provision for Other Employee Benefits				
	Provision for Other Employee Benefits includes Pension and Superannuation fund @ 3.00 % 6.84% respectively on Basic & DA for executives.				



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 6

₹ In Crores

	SHORT TERM BORROWING	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	Loan From Bank	-	-
	Loans Repayable on Demand		
	Balance with Coal India Limited & other Subsidiaries of Coal India Limited	-	-
	Overdraft against Pledge of Term Deposit	-	-
	Other Loans and Advances		
	Deferred Credits	-	-
	Total :	-	-
	CLASSIFICATION 1		
	Secured	-	-
	Unsecured	-	-
	CLASSIFICATION 2		
Note			
6.1	Loan Guaranteed by directors & others		
	Particulars of Loan	Amount ₹ in crore	Nature of Guarantee
		NIL	NIL
6.2	Amount outstanding in Foreign Currency : NIL		

NOTE - 7

₹ In Crores

	TRADE PAYABLE	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	Outstanding Dues of Micro Enterprises & Small Enterprises	0.20	0.34
	Outstanding Dues other than Micro Enterprises & Small Enterprises	0.79	0.43
	TOTAL	0.99	0.77
Note:			
7.1	As required by section 22 of the Micro, Small and Medium Enterprises Development Act, 2006, the following information is disclosed on the basis of information available with the Company. Due to MSME:		
a)	The Principal amount and interest due thereon remaining unpaid to any supplier at the end of each accounting year;	-	-

b)	The amount of interest paid by the buyer in terms of sec 16 of the Micro, Small and Medium Enterprises Development Act, 2006 , along with the amount of the payment made to supplier beyond the appointed day during each accounting year;	-	-
c)	The amount of 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 the Micro, Small and Medium Enterprises Development Act, 2006		
d)	The amount of interest accrued and remaining unpaid at the end of each accounting year; and	-	-
e)	The amount of further interest remaining due and payable even in the succeeding year, until such date when the interest dues above are actually paid to the small enterprises, for the purpose of disallowances of a)deductible expenditure under sec 23 of the Micro, Small and Medium Enterprises Development Act, 2006;	-	-
	TOTAL	-	-

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 8

₹ In Crores

	OTHER CURRENT LIABILITIES Contd...	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	Current Maturities of Long Term Borrowings		
	Loan From Coal India Limited	-	-
	Surplus Fund from Coal India	-	-
	For Capital (including Stores)	-	-
	FOR EXPENSES :		
	Salary Wages & Allowances	33.92	33.24
	Power & Fuel	1.24	0.84
	Others	79.76	70.41
		114.92	104.49
	STATUTORY DUES :		
	Sales Tax/VAT	-	-
	Provident Fund & Pension Fund	0.35	0.68
	Central Excise Duty	-	-
	Royalty & Cess on Coal	-	-
	Stowing Excise Duty	-	-



Central Mine Planning & Design Institute Limited

Clean Energy Cess	-	-
Other Statutory Levies	1.92	1.50
	2.27	2.18
Income Tax Deducted at Source	0.40	0.42
Security Deposit	4.61	4.05
Earnest Money	2.75	2.38
Advance & Deposit from customers / others	3.15	5.30
Interest Accrued and due on Borrowings	-	-
Interest Accrued but not due on Borrowings	-	-
Cess Equilisation Account	-	-
Current Account with IICM	-	-
Unpaid Dividend	-	-
Advance Deposit other Pre-Nationalisation	-	-
Others Liabilities	108.62	76.81
TOTAL	236.72	195.63

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

				₹ In Crores		
PARTICULARS	S&T GRANTS	PRE GRANTS	CCDA GRANTS	DETAILED EXPLORATION FOR NON-CIL	MINISTRY OF STEEL	CIL R&D FUNDS
Opening Balance as on 01-04-2015	3.64	0.40	0.21	40.64	0.26	5.83
Addition						
1. MINISTRY OF COAL	18.00	105.27	0.00	151.20	0.00	0.00
2. MINISTRY OF STEEL	0.00	0.00	0.00	0.00	0.00	0.00
3. CIL KOLKATA	0.00	0.00	0.20	0.00	0.00	6.25
4. ADJUSTMENT	0.00	0.00	0.00	0.00	0.00	-0.02
5. BANK INTEREST ON FUND	0.32	1.11	0.02	3.00	0.00	0.42
	21.96	106.78	0.43	194.84	0.26	12.48
Less : Disbursement / Utilisation	17.60	104.37	0.20	138.40	0.00	4.89
Closing Balance as on 31-03-2016	4.36	2.41	0.23	56.44	0.26	7.59

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 9

₹ In Crores

	SHORT TERM PROVISIONS			As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	For Employee Benefits				
	- Gratuity			24.32	23.84
	- Leave Encashment			15.06	15.58
	- PPLB			13.39	9.33
	- PRP			181.14	192.50
	- Other Employee Benefits			78.63	68.14
	For Proposed Dividend			-	-
	For Corporate Dividend Tax			-	-
	For Excise Duty on Closing Stock of Coal			-	-
	For Others			0.02	0.02
	TOTAL			312.56	309.41
Note:					
9.1	Short term provisions for other includes Employees Benefits ₹ 70.81 Provided for superannuation benefits @ 9.84% as on 31.03.2016.				
9.2	The Position of various provisions is given below:				
	Provisions	Opening Balance	Addition / Write Back during the period	Paid/ Adj during the period	Closing Balance
		01.04.2015			31.03.2016
i	For Gratuity	23.84	11.96	11.48	24.32
ii	For Leave Encashment	15.58	19.66	20.18	15.06
iii	For PLRS	9.33	14.98	10.92	13.39
iv	For PRP	192.50	12.43	23.79	181.14
v	For Other Employee Benefits	68.14	48.90	38.41	78.63
vi	For Proposed Dividend				
vii	For Corporate Dividend Tax				
viii	For Provision for Income Tax				
ix	For Excise Duty				
x	For Others	0.02			0.02
9.3	Performance Related Pay (PRP)				
	An Amount ₹14.34 Crores paid as advance against Performance Related Pay (PRP), adjusted against the provision made.				



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd....)

NOTE - 10 (A)

FIXED ASSETS

	PARTICULARS	GROSS BLOCK				DEPRECIATION				IMPAIRMENT LOSS				NET BLOCK	
		As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 31-03-16	As on 31-03-15
A	Tangible Assets														
	Land														
	(a) Freehold	1.15	-	-	1.15	-	-	-	-	-	-	-	-	1.15	1.15
	(b) Leasehold	2.19	-	-	2.19	0.85	0.03	0.88	0.88	-	-	-	-	1.31	1.34
	Building/Water Supply/Road & Culverts	42.71	3.81	(0.01)	46.51	16.88	1.31	-	18.19	-	-	-	-	28.32	25.83
	Plant & Machinery	118.67	22.92	(2.18)	139.41	82.89	7.93	(2.04)	88.78	-	-	-	-	50.63	35.78
	Telecommunication	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Railway Sidings	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Furniture & fittings/ Office Tools & Equipments/ Electrical Fittings/ Fire Arms	15.62	4.00	(0.37)	19.25	11.07	1.50	(1.02)	11.55	-	-	-	-	7.70	4.55
	Vehicle	14.90	1.94	(0.85)	15.99	7.93	1.51	(0.77)	8.67	-	-	-	-	7.32	6.97
	Aircraft	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Assets taken on Nationalisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL - A	195.24	32.67	(3.41)	224.50	119.62	12.28	(3.83)	128.07	-	-	-	-	96.43	75.62
	NOTE - 10A (Contd.)														

₹ In Crores

FIXED ASSETS														
B	Surveyed off Assets	0.68	0.32	[0.29]	0.71									
	TOTAL - B	0.68	0.32	[0.29]	0.71								0.71	0.68
	GRAND TOTAL (A+B)	195.92	32.99	[3.70]	225.21	119.62	12.28	[3.83]	128.07	-	-	-	97.14	76.30
	Surveyed off Assets (As on 31.03.2015)	0.66	0.39	[0.37]	0.68								0.68	0.66
	Tangible Assets (As on 31.03.2015)	180.94	16.57	[2.27]	195.24	109.49	12.13	[2.00]	119.62	-	-	-	75.62	71.45
	Grand Total (As on 31.03.15)	181.60	16.96	[2.64]	195.92	109.49	12.13	[2.00]	119.62	-	-	-	76.30	72.11
C	Intangible Assets													
	Computer Software	7.55	0.29	-	7.84	3.02	1.97	-	4.99	-	-	-	2.85	4.53
	Development	-	-	-	-	-	-	-	-	-	-	-	-	-
	Prospecting & Boring	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL - C	7.55	0.29	-	7.84	3.02	1.97	-	4.99	-	-	-	2.85	4.53
	Intangible Assets (As on 31.03.15)	2.21	5.85	[0.51]	7.55	2.21	1.32	[0.51]	3.02	-	-	-	4.53	4.53

Fixed Assets

- 10.1 Legal transfer of assets and liabilities from the Holding Company, Coal India Limited (CIL) on its reorganisation on 01/11/1975 is yet to be effected.
- 10.2 The Company has got constructed houses and office complex in BCCL Township in Dhanbad ₹3.86 Crores (Pr: ₹ 3.80 Crores), and NCL Township in Singrauli ₹4.29 Crores (Pr: ₹ ₹4.21 Crores) and Building under construction ₹4.20 Crores at WCL on the land belonging to other subsidiaries of the Holding Company



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 10 (A) Contd....

FIXED ASSETS

Details of Assets as per Note No. 10A

₹ In Crores

PARTICULARS	GROSS BLOCK				DEPRECIATION			NET BLOCK	
	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 31-03-15
Land									
(a) Freehold	1.15			1.15		-	-	1.15	1.15
(b) Leasehold	2.19			2.19	0.85	0.03		0.88	1.34
Buildings	42.40	3.81	[0.01]	46.20	16.82	1.31	-	18.13	25.58
Plant & Machinery	83.61	20.28	[1.92]	101.97	52.03	6.93	[1.78]	57.18	31.58
Furniture & fittings/ Office Equipments etc.	14.68	4.00	[0.37]	18.31	10.49	1.42	[1.02]	10.89	4.19
Vehicle	14.85	1.94	[0.85]	15.94	7.89	1.51	[0.77]	8.63	6.96
Surveyed Off Assets	0.68	0.32	[0.29]	0.71				0.71	0.68
TOTAL (A) - Fixed Assets	159.56	30.35	[3.44]	186.47	88.08	11.20	[3.57]	95.71	71.48
Software	5.38	0.28	-	5.66	1.46	1.45	-	2.91	2.75
(B) Fixed Assets & Software [S&T CCDA, EMSC, UNDP, PRE, CIL R&D etc.]									
Land									
(a) Freehold	-	-	-	-	-	-	-	-	-
(b) Leasehold	-	-	-	-	-	-	-	-	-
Buildings	0.31			0.31	0.06	-	-	0.06	0.25
Plant & Machinery	35.06	2.64	[0.26]	37.44	30.86	1.00	[0.26]	31.60	4.20
Furniture & fittings/ Office Equipments etc.	0.94	-	-	0.94	0.58	0.08	-	0.66	0.36
Vehicle	0.05		-	0.05	0.04			0.04	0.01
TOTAL (B) - Fixed Assets	36.36	2.64	[0.26]	38.74	31.54	1.08	[0.26]	32.36	4.82
Software-	2.17	-	0.01	2.18	1.56	0.52		2.08	0.10
TOTAL (A+B) Fixed Assets	195.92	32.99	[3.70]	225.21	119.62	12.28	[3.83]	128.07	76.30
TOTAL (A+B) Software	7.55	0.28	0.01	7.84	3.02	1.97	-	4.99	4.53

NOTE - 10 (B)
CAPITAL WORK-IN- PROGRESS

₹ In Crores

PARTICULARS	COST				PROVISION				IMPAIRMENT LOSS				NET BLOCK	
	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 31-03-16	As on 31-03-15
Tangible Assets														
Building/Water Supply/Road & Culverts	12.71	15.39	[6.38]	21.72	-	-	-	-	-	-	-	-	21.72	12.71
Plant & Machinery	16.73	29.27	[6.28]	39.72	-	-	-	-	-	-	-	-	39.72	16.73
Railway Sidings	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	29.44	44.66	[12.66]	61.44	-	-	-	-	-	-	-	-	61.44	29.44
Tangible Assets (As on 31.03.15)	24.93	19.27	[14.76]	29.44	-	-	-	-	-	-	-	-	29.44	24.93

NOTE - 10 (C)
INTANGIBLE ASSET UNDER DEVELOPMENT

₹ In Crores

PARTICULARS	COST				PROVISION				IMPAIRMENT LOSS				NET BLOCK	
	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 01.04.15	Addition during the year 2015-16	Adj./Sales/ during the year 2015-16	As on 31-03-16	As on 31-03-16	As on 31-03-15
Intangible Assets														
Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prospecting & Boring	-	-	-	-	-	-	-	-	-	-	-	-	-	-
For the year ended 31.03.15														
Intangible Assets	-	-	-	-	-	-	-	-	-	-	-	-	-	-



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 11

NON - CURRENT INVESTMENTS - Unquoted at Cost

₹ In Crores

	Number of shares/bonds/ securities current year / (previous year)	Face value per shares/bonds/ security current year/ (previous year) (₹)	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
TRADE			-	-
NON-TRADE			-	-
Total :			-	-
Aggregate of Quoted Investment				-
Aggregate of Unquoted Investment			-	-
Market Value of Quoted Investment			-	-
Provision made for diminution in the value of Investment			-	-

NOTE - 12

LONG TERM LOANS & ADVANCES

₹ In Crores

	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
LOANS		
ADVANCES		
For Capital		
- Secured considered goods	-	-
- Unsecured considered goods	10.26	3.28
- Doubtful	-	-
	10.26	3.28
Less : Provision for Doubtful Loans and Advances	-	-
	10.26	3.28
For Revenue		
- Secured considered goods	-	-
- Unsecured considered goods	-	-
- Doubtful	-	-
	-	-
Less : Provision for Doubtful Loans and Advances	-	-
	-	-
Security Deposits	-	-
- Secured considered goods	-	-
- Unsecured considered goods	0.12	0.13
- Doubtful	-	-
	0.12	0.13

Less : Provision for Doubtful Loans and Advances	-	-		
	0.12	0.13		
Deposit for P&T, Electricity etc.				
- Secured considered goods	-	-		
- Unsecured considered goods	0.61	0.60		
- Doubtful	-	-		
	0.61	0.60		
Less : Provision for bad and doubtful Loans trade receivables	-	-		
	0.61	0.60		
LOAN TO EMPLOYEES & OTHERS				
For House Building				
- Secured considered goods	0.03	0.06		
- Unsecured considered goods	-	-		
- Doubtful	-	-		
	0.03	0.06		
For Motor Car and Other Conveyance				
- Secured considered goods	-	-		
- Unsecured considered goods	-	-		
- Doubtful	-	-		
	-	-		
For Others				
- Secured considered goods	-	-		
- Unsecured considered goods	-	-		
- Doubtful	-	-		
	-	-		
Less : Provision for Doubtful Loans and Advances	-	-		
	-	-		
Loan To Subsidiaries				
- Secured considered goods	-	-		
- Unsecured considered goods	-	-		
- Doubtful	-	-		
	-	-		
TOTAL	11.02	4.07		
	CLOSING BALANCE		MAXIMUM AMOUNT DUE AT ANY TIME DURING	
	As on 31-03-2016 (Audited)	As on 31-03-2015 (Audited)	2015-16	2014-15
Due by the Companies under the same management	NIL	NIL	NIL	NIL
Due by the parties in which the Director(s) of company is /are interested	NIL	NIL	NIL	NIL



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 13

OTHER NON-CURRENT ASSETS

₹ In Crores

			As at 31-03-2016 (Audited)		As at 31-03-2015 (Audited)
	Long Term Trade Receivable				
	- Secured considered goods		-		-
	- Unsecured considered goods		-		-
	- Doubtful		-		-
			-		-
	Less Provision for bad and doubtful trade receivables		-		-
			-		-
	Exploratory Drilling Work				
	- Secured considered goods		-		-
	- Unsecured considered goods		-		-
	- Doubtful		-		-
			-		-
	Less Provision for bad and doubtful trade receivables		-		-
			-		-
	Other Receivables				
	- Secured considered goods		-		-
	- Unsecured considered goods		0.02		0.02
	- Doubtful		-		-
			0.02		0.02
	Less Provision for bad and doubtful trade receivables		-		-
			0.02		0.02
	TOTAL		0.02		0.02
13.1		CLOSING BALANCE		MAXIMUM AMOUNT DUE AT ANY TIME DURING	
		As on 31-03-2016	As on 31-03-2015	2015-16	2014-15
	Due by the Companies under the same management	NIL	NIL	NIL	NIL
	Due by the parties in which the Director(s) of company is /are interested	NIL	NIL	NIL	NIL

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 14

CURRENT INVESTMENTS - Quoted / Unquoted at Cost

₹ In Crores

		Number of shares/ bonds/securities current year / (previous year)	Face value per shares/bonds/ security current year / (previous year) (₹)	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	NON-TRADE				
A)	Mutual Fund Investment	-	-	-	-
	Total (A)				
B)	TRADE				
	Total (B)				
	Total (A+B)			-	-
	Aggregate of Quoted Investment			-	-
	Aggregate of Unquoted Investment			-	-
	Market Value of Quoted Investment			-	-
	Market Value of Unquoted Investment			-	-
	Provision made for diminution in the value of Investment			-	-

NOTE - 15

INVENTORIES

(Valuation as per Accounting Policy No. 4.1 Note - 33)

₹ In Crores

		As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
A	Net Stock of Coal & Coke etc	-	-
	Stock of Coal		
	Coal Under Development	-	-
	Less : Provision	-	-
	Total (A)	-	-
B	Net Stock of Stores & Spare Parts (at cost)		
	Stock of Stores & Spare Parts (at cost)	7.57	6.42
	Stores -in -transit	0.41	0.09
	Less : Provision	0.57	0.41
	Total (B)	7.41	6.10
C	Net Stock of Workshop Jobs		
	Workshop Jobs:		
	Work-in-progress and Finished Goods	-	-
	Less : Provision	-	-
	Total (C)	-	-



D	Press :		
	Work-in-Progress and Finished Goods	-	-
	Loss of Stores/Assets	-	-
	Less : Provisions	-	-
	Total (D)	-	-
E	Stock of Medicine at Central Hospital		
	Workshop Jobs :	-	-
	Work-in-Progress	-	-
	Manufactured Items/Work-in-progress	-	-
	Finished Goods	-	-
	Manufactured Goods	-	-
	Work-in-progress and Finished Goods	-	-
	Less : Provisions	-	-
	Total (A)		
F	Prospecting & Boring/ Development Exp./Coal Blocks meant for Sale	-	-
	Total (A)		
	Total (A+B+C+D+E+F)	7.41	6.10

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 16

TRADE RECEIVABLE

₹ In Crores

		As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
	Debts outstanding for a period exceeding six months from the due date		
	- Secured considered goods	-	-
	- Unsecured considered goods	104.79	67.94
	- Doubtful	2.39	2.78
		107.18	70.72
	Less Provision for bad and doubtful trade receivables	2.39	2.78
		104.79	67.94
	Other Debts		
	- Secured considered goods	-	-
	- Unsecured considered goods	143.45	168.42
	- Doubtful	-	-
		143.45	168.42
	Less Provision for bad and doubtful trade receivables	-	-
		143.45	168.42
	Total	248.24	236.36

16.1		CLOSING BALANCE		MAXIMUM AMOUNT DUE AT ANY TIME DURING	
		As on 31-03-2016 (Audited)	As on 31-03-2015 (Audited)	2015-16	2014-15
	Due by the Companies under the same management				
	Eastern Coalfields Limited	4.06	13.42	23.72	48.72
	Bharat Coking Coal Limited	40.27	42.93	51.92	71.44
	Central Coalfields Limited	14.97	20.89	66.23	82.19
	Western Coalfields Limited	3.07	4.50	17.75	23.37
	South Eastern Coalfields Limited	61.02	32.82	91.19	44.86
	Northern Coalfields Limited	31.09	23.27	41.25	42.35
	Mahanadi Coalfields Ltd.	22.31	20.50	30.02	32.96
	North East Coalfields	0.54	0.59	0.88	0.74
	Kakri CHP (NCL)	0.14	0.14	0.14	0.14
	Dankuni Coal Complex (CIL)	0.00	0.02	0.00	0.02
	Bharatpur CHP (MCL)	0.00	0.01	0.00	0.01
	Coal India Africana Limitada	0.29	0.97	1.12	0.97
	CIL, Kolkata	24.93	37.44	37.44	37.44
	MJSJ Coal Co. Ltd	0.24	0.24	0.24	0.24
	MNH Shakti Ltd.	0.12	0.29	0.29	0.40
	Total	203.05	198.03	362.19	385.85
	Due by the parties in which the Director(s) of company is /are interested	NIL	NIL	NIL	NIL

NOTE - 17
CASH & CASH EQUIVALENTS

₹ In Crores

	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
Cash & Cash Equivalents		
Balances with Scheduled Banks		
- SBI Dividend Account (unpaid/unclaimed dividend account)	-	-
- In Deposit Accounts with maturity upto 3 months	-	-
- In Current Accounts	123.66	82.61
- In Cash Credit Accounts	-	-
Balances with Non - Scheduled Banks	-	-
In Account with Banks outside India	-	-
Remittance - in transit	-	-
Cheques, Drafts and Stamps on hand	0.09	0.01
Cash on hand	0.09	0.09



Central Mine Planning & Design Institute Limited

	Deposit with Scheduled Banks under Shifting and Rehabilitation Fund Scheme with maturity upto 3 months	-	-
	Other Bank Balances Contd...		
	Balances with Scheduled Banks		
	- In Deposit Accounts with maturity more than 3 months	0.46	3.21
	Deposit with Scheduled Banks under Shifting and Rehabilitation Fund Scheme with maturity more than 3 months	-	-
	Deposit with Scheduled Banks under Mine Closure Plan Scheme	-	-
	Total	124.30	85.92
	Maximum amount outstanding with Banks other than Scheduled Banks at any time during the year	-	-
Note:			
1	Balances with banks to the extent held as margin money or security against the borrowings, guarantees, other commitments, other earmarked balances shall be disclosed separately.	NIL	NIL
2	Repatriation restrictions, if any, in respect of cash and bank balances shall be separately stated.	NIL	NIL
3	Bank deposits with more than 12 months maturity	NIL	NIL
4	To be in Escrow Account	NIL	NIL

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 18

SHORT TERM LOANS & ADVANCES

₹ In Crores

		As at 31-03-2016 (Audited)		As at 31-03-2015 (Audited)
LOANS				
ADVANCE				
(Recoverable in cash or in kind or for value to be received)				
ADVANCE TO SUPPLIERS				
For Revenue				
- Secured considered good		-		-
- Unsecured considered good		0.75		0.67
- Doubtful		-		-
		0.75		0.67
Less Provision for bad and doubtful trade receivables		-		-
		0.75		0.67
		0.75		0.67
ADV PAYMENT OF STATUTORY DUES				
SalesTax				
- Secured considered good		-		-
- Unsecured considered good		0.41		3.72

- Doubtful		-		-
		0.41		3.72
Less Provision for bad and doubtful trade receivables		-		-
		0.41		3.72
Advance Income Tax / Tax Deducted at Source(Includes ₹22.31 Crores as payments under protest)		256.58		207.44
Less : Provision for Income Tax		111.71		103.61
		144.87		103.83
Others				
- Secured considered good		-		
- Unsecured considered good		0.79		0.23
- Doubtful		-		-
		0.79		0.23
Less Provision for bad and doubtful trade receivables		-		-
		0.79		0.23
		146.07		107.78
Advance to Employees				
- Secured considered good		-		-
- Unsecured considered good		25.02		38.90
- Doubtful		-		-
		25.02		38.90
Less Provision for bad and doubtful trade receivables		-		-
		25.02		38.90
Current Account with Coal India Limited & other Subsidiaries of Coal India Limited		127.32		192.41
Loan Account with Subsidiaries				
- Secured considered good		-		-
- Unsecured considered good		-		-
- Doubtful		-		-
Less Provision for bad and doubtful trade receivables		-		-
Claims Receivables				
- Secured considered good		-		-
- Unsecured considered good		9.07		20.03
- Doubtful		0.12		0.08
		9.19		20.11
Less Provision for bad and doubtful trade receivables		0.12		0.08
		9.07		20.03
Prepaid Expenses		-		0.60
		161.41		251.94
TOTAL		308.23		360.39
	CLOSING BALANCE		MAXIMUM AMOUNT DUE AT ANY TIME DURING	
	As on 31-03-2016	As on 31-03-2015	During 2015-16	During 2014-15
Due by the Companies under the same management	127.32	192.41	192.41	192.41
Due by the parties in which the Director(s) of company is / are interested	Nil	Nil	Nil	Nil



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 19

OTHER CURRENT ASSETS

₹ In Crores

	As at 31-03-2016 (Audited)	As at 31-03-2015 (Audited)
Interest Accrued		
- Investment	-	-
- Deposit with Banks	-	-
- Others	-	-
Ex Owner's Account	-	-
Other Advances	-	-
Less : Provision		
DEPOSITS		
Deposit for Customs Duty, Port Charges etc.	-	-
Deposit with Coal India Limited	-	-
Deposit for Royalty, Cess & Sales Tax	-	-
Less : Provision	-	-
Others	0.05	0.05
Less : Provision	-	-
Amount Receivable from Govt of India for transactions on behalf of Ex-Coal Board	-	-
Less : Provision	-	-
Other Receivables	-	-
Less : Provision	-	-
TOTAL	0.05	0.05

NOTE - 20

REVENUE FROM OPERATIONS

₹ In Crores

		For the Year ended 31-03-2016		For the year ended 31-03-2015	
A)	A Sale of Services	877.13		816.54	
	Less : Excise Duty	-	877.13	-	816.54
	Less : Other Levies				
	Royalty	-		-	
	Cess on Coal	-		-	
	Stowing Excise Duty	-		-	
	Central Sales Tax	-		-	

	Clean Energy Cess				
	State Sales Tax/VAT				
	Other Levies (Service Tax)	117.86	117.86	89.82	89.82
	TOTAL LEVIES				
	Net Sales (A)		759.27		726.72
B)	Facilitation charges for coal import				
	Subsidy for sand stowing and protective works	-		-	
	Loading and additional transportation charges	-		-	
	Less:- Excise Duty	-		-	
	Less:- Other Levies	-		-	
	Other Operating Revenue (B)		-		-
C)	Revenue From Operations(A+B)		759.27		726.72
Note :					
1	In Respect of Geo physical expenditure is recognized on the basis of actual approval of bills by Exploration department.				

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 21 OTHER INCOME

₹ In Crores

		For the Year ended 31-03-2016	For the Year ended 31-03-2015
	Income From Long Term Investments		
	Dividend from Joint Ventures	-	-
	Dividend from Subsidiaries	-	-
	Interest from		
	Government Securities	-	-
	Income From Current Investments		
	Dividend from Mutual Fund Investments	-	-
	Interest from		
	Government Securities	-	-
	7.55% Non Convertible IRFC Tax Free Bonds 2021 Series (Non-Trade)		
	Income From Others		
	Interest (Gross)		
	From Deposit with Banks	0.87	0.52
	From Loans and Advances to Employees	0.01	-
	From Income Tax Refunds	-	-



Central Mine Planning & Design Institute Limited

	From Coal India	-	-
	Others	-	-
	Apex Charges		
	Subsidy for Sand Stowing & Protective Works	-	-
	Profit on Sale of Assets	0.35	0.22
	Recovery of Transportation & Loading Cost	-	-
	Gain on Foreign exchange Transactions	-	-
	Exchange Rate Variance	-	-
	Lease Rent	-	-
	Liability Write Backs	-	-
	Guarantee Fees from Subsidiaries	-	-
	Other non-operating Income	3.85	4.74
	TOTAL	5.08	5.48
Note			
	Write Back:		
1	Stale cheques, which are more than three years old at the end of the period are written back during the period ₹ 0.10 Crores (Previous Year ₹ 0.01 Crores). Earnest Money and Security Deposit & Contractors Keep Back which are more than five years old at the end of the period are written back during the period ₹ 0.02 Crores (Previous Year ₹ 0.44 Crores) except disputed cases pending with court/arbitration.		

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 22

COST OF MATERIAL CONSUMED

₹ In Crores

	For the Year ended 31-03-2016	For the Year ended 31-03-2015
Explosives	-	-
Timber	-	-
P O L	7.42	7.95
HEMM Spares	-	-
Other Consumable Stores & Spares	14.50	13.48
TOTAL	21.92	21.43

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**NOTES TO BALANCE SHEET (Contd...)****NOTE - 23****CHANGE IN INVENTORIES OF FINISHED GOODS, WORK IN PROGRESS AND STOCK IN TRADE**

₹ In Crores

		For the Year ended 31-03-2016	For the Year ended 31-03-2015
A	Change in Inventory of Coal		
	Opening Stock of Coal	-	-
	Add: Adjustment of opening stock	-	-
	Less: Deterioration of Coal	-	-
		-	-
	Less:		
	Closing Stock of Coal / Coke	-	-
	Less: Deterioration of Coal	-	-
	Total (A)	-	-
B	Change in Inventory of workshop		
	Opening Stock of Workshop made finished goods and WIP	-	-
	Less: Provision	-	-
		-	-
	Less:		
	Closing Stock of Workshop made finished goods and WIP	-	-
	Less: Provision	-	-
	Total (B)	-	-
C	Change in Inventory of closing Stock of Press job made finished goods and WIP		
	Press Opening Job		
	i) Finished Goods	-	-
	ii) Work in Progress	-	-
		-	-
	Less:		
	Press Closing Job		
	i) Finished Goods	-	-
	ii) Work in Progress	-	-
	Total (C)	-	-
	Change in Inventory of Stock of trade		
	[A+B+C] [Decretion / (Accretion)]	-	-



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 24

EMPLOYEE BENEFIT EXPENSES

₹ In Crores

		For the Year ended 31-03-2016	For the Year ended 31-03-2015
	Salary, Wages, Allowances ,Bonus & Benefits	257.39	237.04
	Exgratia	14.98	10.75
	PRP	12.43	27.02
	Contribution to P.F. & Other Funds	32.30	32.84
	Gratuity	11.96	16.25
	Leave Encashment	19.66	23.41
	VRS	-	-
	Workman Compensation	0.14	0.02
	Medical Expenses for existing employees	8.36	7.47
	Medical Expenses for retired employees	2.01	0.04
	Grants to Schools & Institutions	0.09	0.09
	Sports & Recreation	0.76	0.51
	Canteen & Creche	0.23	0.21
	Power - Township	2.68	2.31
	Hire Charges of Bus, Ambulance etc.	0.51	0.40
	Other Employee Benefits	48.90	44.37
	TOTAL	412.40	402.73

NOTE - 25

CORPORATE SOCIAL RESPONSIBILITY EXPENSES

₹ In Crores

		For the Year ended 31-03-2016	For the Year ended 31-03-2015
	CSR Expenses	2.01	1.68
	TOTAL	2.01	1.68

Note: In pursuance of Sec 135 of the Companies Act 2013 an amount of ₹ 0.46 crores (being 2% of average net profits of the company made during the three immediately preceding financial years) was required to be spent during F/Y 2015-2016 towards CSR activities and the company has spent ₹ 2.01crores.

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**NOTES TO BALANCE SHEET (Contd...)****NOTE - 26****REPAIRS**

₹ In Crores

		For the Year ended 31-03-2016	For the Year ended 31-03-2015
	Building	7.26	5.73
	Plant & Machinery	4.30	2.69
	Others	8.34	6.80
	TOTAL	19.90	15.22

NOTE - 27**CONTRACTUAL EXPENSES**

₹ In Crores

		For the Year ended 31-03-2016	For the Year ended 31-03-2015
	Transportation Charges :		
	- Sand	-	-
	- Coal & Coke	-	-
	- Stores & Others etc.	-	-
	Wagon Loading	-	-
	Hiring of P&M	-	-
	Other Contractual Work	205.09	191.09
	TOTAL	205.09	191.09

NOTE - 28**FINANCE COSTS**

₹ In Crores

		For the Year ended 31-03-2016	For the Year ended 31-03-2015
A	INTEREST		
	Deferred Payments	-	-
	Bank Overdraft / Cash Credit	-	-
	CIL Fund Loan Interest	-	-
	Interest to Subsidiaries	-	-
	Others	0.24	0.24
	TOTAL(A)	0.24	0.24
B	OTHER BORROWING COSTS		
	Other Expenses / Bank Charges	-	-
	TOTAL(B)	-	-
	TOTAL (A+B)	0.24	0.24



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 29 PROVISIONS

₹ In Crores

		For the Year ended 31-03-2016	For the Year ended 31-03-2015
(A)	PROVISION MADE FOR		
	Doubtful debts	-	-
	Doubtful advances & Claims	-	-
	Foreign exchange Transaction	-	-
	Stores & Spares	-	-
	Reclamation of Land/Mine Closure Expenses	-	-
	Surveyed of Fixed Assets/Capital WIP	-	-
	Others	0.20	-
	TOTAL (A)	0.20	-
(B)	PROVISION WRITTEN BACK		
	Doubtful debts	0.31	0.06
	Doubtful advances & Claims	-	-
	Stores & Spares	-	0.01
	Reclamation of Land	-	-
	Surveyed of Fixed Assets/Capital WIP	-	-
	Others	-	-
	TOTAL (B)	0.31	0.07
	TOTAL (A-B)	(0.11)	(0.07)

NOTE - 30 WRITE OFF

₹ In Crores

		For the Year ended 31-03-2016	For the Year ended 31-03-2015
	Doubtful debts	-	-
	Doubtful advances	-	-
	Others	-	-
	TOTAL	-	-

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 31 OTHER EXPENDITURE

₹ In Crores

	For the Year ended 31-03-2016	For the Year ended 31-03-2015
Travelling expenses		
- Domestic	17.50	15.72
- Foreign	0.61	0.47
Training Expenses	0.60	0.62
Telephone & Postage	2.21	1.13
Advertisement & Publicity	2.19	1.95
Donation/Subscription	-	-
Security Expenses	8.29	6.80
Service Charges of CIL	-	-
Hire Charges	4.55	3.92
Legal Expenses	0.18	0.29
Bank Charges	0.06	0.05
Guest House Expenses	0.63	0.13
Consultancy Charges	1.41	2.58
Auditor's Remuneration & Expenses		
- For Audit Fees	0.02	0.02
- For Taxation Matters	0.01	0.01
- For Company Law Matters	-	-
- For Management Services	-	-
- For Other Services	0.25	0.14
- For Reimbursement of Expenses	-	-
Internal Audit Expenses	0.47	0.41
Rehabilitation Charges	-	-
Royalty & Cess	-	-
Central Excise Duty	-	-
Rent	0.82	0.80
Rates & Taxes	0.79	0.62
Insurance	-	-
Lease Rent	-	-
Rescue/Safety Expenses	-	-
Land/Crops Compensation	0.01	-
Environment & Tree Plantation	0.44	0.28
Miscellaneous Expenses	7.89	11.31
TOTAL	48.93	47.25



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTES TO BALANCE SHEET (Contd...)

NOTE - 32 EXCEPTIONAL ITEMS

₹ In Crores

PRIOR PERIOD ADJUSTMENT	For the Year ended 31-03-2016 (Audited)	For the Year ended 31-03-2015 (Audited)
Expenditure		
Depreciation	(0.75)	-
Building under construction	(4.35)	-
OBR Adjustment		
TOTAL (A)	(5.10)	-
Income		
Sale of Service	(0.32)	(0.01)
TOTAL (B)	(0.32)	(0.01)
TOTAL { A-B }{Charge/(Income)}	(4.78)	0.01

CASH FLOW STATEMENT (INDIRECT METHOD)

For the Period Ended 31st March, 2016

₹ In Crores

		FOR THE PERIOD ENDED	
		31/03/2016	31/03/2015
A.	CASH FLOWS FROM OPERATING ACTIVITIES:		
	Net Profit before tax	42.54	39.33
	Adjustment for:		
	Depreciation & Impairment of Fixed Assets	10.42	10.94
	Interest Income	(0.88)	(0.52)
	Dividend from Mutual fund investments	0.00	0.00
	Interest expense	0.24	0.24
	OBR adjustment	0.00	0.00
	Profit/Loss of sale of assets [net]	(0.35)	(0.22)
	Other non-operating Income	(3.85)	(4.74)
	Extra Ordinary Items	0.00	0.00
	Exchange Rate Fluctuation	0.00	0.00
	Operating profit before Current / Non Current Assets and Liabilities	48.12	45.03
	Adjustments for :		
	Trade Receivable	(11.88)	(38.02)
	Inventories	(1.31)	(0.33)
	Short/Long term Loans / Advances & Other Current Assets	58.12	(48.72)
	Short/Long term Liabilities and Provisions	14.64	56.91
	Cash generated from operations	107.69	14.87
	Income Tax paid / refund	(14.06)	(14.29)
	Interest paid	(0.24)	(0.24)
	Net Cash Flow from Operating Activities (A)	93.39	0.34
B.	CASH FLOWS FROM INVESTING ACTIVITIES		
	Purchase of Fixed Assets	(61.71)	(24.25)
	Proceeds from sale of Assets	0.47	0.30
	Proceeds/(Purchase) of Investments incl Fixed Deposit and Mutual Funds	0.00	0.00
	Other Long Term Loans & Advances (Capital Advances)	(6.95)	(2.05)
	Interest received on Fixed Deposit / Loan to Subsidiary	0.88	0.52



Central Mine Planning & Design Institute Limited

	Other non-operating Income	3.85	4.74
	Interest pertaining to Investments	0.00	0.00
	Dividend from Mutual fund Investments	0.00	0.00
	Net cash flow from Investing Activities (B)	(63.46)	(20.74)
C.	CASH FLOWS FROM FINANCING ACTIVITIES		
	Proceed from short term Borrowings/Govt. Grant	8.44	0.00
	Repayment of Borrowings	0.00	(2.86)
	Interest & Finance cost pertaining to Financing Activities	0.00	0.00
	Dividend paid	0.00	0.00
	Dividend Tax paid	0.00	0.00
	Net cash used in Financing Activities (C)	8.44	(2.86)
	Net increase/ decrease in Cash & Bank Balances (A+B+C)	38.38	(23.26)
	Cash and cash equivalent (Opening Balance)	85.92	109.18
	Cash and cash equivalent (Closing Balance)	124.30	85.92
	(All figures in bracket represent outflow)		

Sd/-
(A.Mundhra)
Company Secretary

Sd/-
(D. K. Rao)
General Manager (Finance)

Sd/-
(V. K. Sinha)
Director
DIN-06793778

Sd/-
(Shekhar Saran)
Chairman-cum-Managing Director
DIN-06607551

In terms of our report of even date attached

For K.C.Tak & CO.

Chartered Accountants

Firm Registration No. : 000216C

Date : 25th May, 2016
Place : Kolkata

Sd/-
(CA Anil Jain)
PARTNER
Membership No. : 079005

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

NOTE - 33

Significant Accounting Policies

(Forming part of accounts for the year ended 31/03/2016)

1.0 Accounting Convention:

Financial statements are prepared under the historical cost convention and on accrual basis of accounting and going concern concept, in accordance with the generally accepted accounting principles in India and the relevant provisions of the Companies Act, 2013 including accounting standards notified there under, except otherwise stated.

1.1 Use of estimate

In preparing the financial statements in conformity with Accounting Principles generally accepted in India, management is sometimes required to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosures of contingent liability as at the date of financial statements and the amount of revenue and expenses during the reported period. Actual results may differ from those estimates. Any revision to such estimate is recognized in the period in which the same is determined.

2.0 Subsidies / Grants from Government:

2.1 Subsidies / Grants on capital account are deducted from cost of respective assets to which they relate. The unspent amount at the Balance Sheet date, if any, is shown as current liabilities.

2.2 Subsidies / Grants on revenue account are credited to Statement of Profit & Loss as income and the relevant expenses are debited to the respective heads of expenses. The unspent amount at the Balance Sheet date, if any, is shown as current liabilities.

2.3 Subsidies / Grants from Government received as an implementing agency:

2.3.1 Certain Grants / 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.

2.3.2 Grant / Funds received as Nodal/Implementing Agency are accounted for on the basis of receipts and disbursement.

3.0 Fixed Assets:

3.1 Land:

Value of land includes cost of acquisition, cash rehabilitation expenses, resettlement cost and compensation in lieu of employment incurred for concerned displaced persons.

3.2 Plant & Machinery:

Plant & Machinery includes cost & expenses incurred for erection / installation and other attributable costs of bringing those assets to working condition for their intended use.



4.0 Inventories:

4.1 Stores & Spares:

- 4.1.1 The closing stock of stores and spare parts has been considered in the accounts as per balances appearing in priced stores ledger of the Central Stores and as per physically verified stores lying at the collieries/units.
- 4.1.2 Stock of stores & spare parts (which also includes loose tools) at central & area stores are valued at cost calculated on the basis of weighted average method. The year-end inventory of stores & spare parts lying at collieries / sub-stores / drilling camps/ consuming centres, initially charged off, are valued at issue price of Area Stores, Cost / estimated cost. Workshop jobs including work-in-progress are valued at cost. Similarly stock of stationary at printing press and medicines at central hospital are valued at cost.
- 4.1.3 Stock of stationery and scraps are not considered in inventory.
- 4.1.4 Provisions are made at the rate of 100% for unserviceable, damaged and obsolete stores and at the rate of 50% for stores & spares not moved for 5 years.

5.0 Depreciation:

- 5.1 Depreciation on fixed assets is provided on straight line method on the basis of useful life specified in Schedule II of Companies Act 2013 except for assets mentioned below, for which depreciation is provided on the basis of technically estimated useful life which are lower than that envisaged as per schedule II of Companies Act, 2013 to depict a more true and fair rate of depreciation:-

Telecommunication equipment	:	6 years
Photocopying machine	:	4 years
Fax machine	:	3 years
Computer	:	3 years
Mobile phone	:	3 years
Digitally enhance cordless telephone	:	3 years
Printer & Scanner	:	3 years
Earth Science Museum	:	19 years
High volume respiratory dust samplers	:	3 years
- 5.2 The residual value of all assets for depreciation purpose is considered as 5% of the original cost of the asset.
- 5.3 Depreciation on the assets added / disposed of during the year is provided on pro-rata basis with reference to the month of addition / disposal.
- 5.4 Cost of Software recognized as intangible asset, is amortized on straight line method over a period of legal right to use or three years, whichever is less; with a nil residual value.

6.0 Impairment of Asset:

Impairment loss is recognized wherever the carrying amount of an asset is in excess of its recoverable amount and the same is recognized as an expense in the statement of profit and loss and carrying amount of the asset is reduced to its recoverable amount.

Reversal of impairment losses recognized in prior years is recorded when there is an indication that impairment losses recognized for the asset no longer exist or have decreased.

7.0 Foreign Currency Transactions:

- 7.1 Transactions in foreign currency are initially recorded at exchange rates prevailing on the date of transactions.

Monetary items denominated in foreign currencies (such as cash, receivables, payables etc.) outstanding at the end of reporting period, are translated at exchange rate prevailing as at the end of reporting period.

Non-monetary items denominated in foreign currency, (such as investments, fixed assets etc.) are valued at the exchange rate prevailing on the date of the transaction.

Exchange differences arising on the settlement of monetary items or on reporting an monetary items at rates different from those at which they were initially recorded during the period, or reported in previous financial statements, are recognised as income or as expenses in the period in which they arise.

- 7.2 Transactions covered by cross currency swap options contracts to be settled on future dates are recognized at the rates prevailing on the Balance Sheet date, of the underlying foreign currency. Effects arising out of such contracts are taken into accounts on the date of settlement.

8.0 Retirement benefits / other employee benefits:

- 8.1 Short term benefits

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

- 8.2 Post-employment benefits and other long term employee benefits:

- a) Defined contributions plans:

The company has defined contribution plans for payment of Provident Fund and Pension Fund benefits to its employees. Such Provident Fund and Pension Fund are maintained and operated by the Coal Mines Provident Fund (CMPF) Authorities. As per the rules of these schemes, the company is required to contribute a specified percentage of pay roll cost to the CMPF Authorities to fund the benefits.

- b) Defined benefits plans:

The liability on the Balance Sheet date on account of gratuity and leave encashment is provided for on actuarial valuation basis by applying projected unit credit method. Further the company has created a Trust with respect to establishment of Funded group Gratuity (cash accumulation) Scheme through Life Insurance Corporation of India. Contribution is made to the said fund based on the actuarial valuation.



c) Other employee benefits:

Further liability on the Balance Sheet date of certain other employee benefits viz. benefits on account of LTA/ LTC; Life Cover Scheme, Group Personal Accident Insurance Scheme, Settlement Allowance, Post Retirement Medical Benefits Scheme and compensation to dependants of deceased in mines accidents etc. are also valued on actuarial basis by applying projected unit credit method.

9.0 Revenue Recognition

9.1 Sales:

- a) Revenue in respect of sales is recognized when the property in the goods with the risks and rewards of ownership are transferred to the buyer and there is no significant uncertainty as to its realisability.

Revenue from Consultancy Services by CMPDIL:

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 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.

10.0 Taxation:

Provision of current income tax is made in accordance with the Income Tax Act, 1961. Deferred tax liabilities and assets are recognized at substantively enacted tax rates, as on the balance sheet date, subject to the consideration of prudence, on timing difference, being the difference between taxable income and accounting income that originate in one period and are capable of reversal in one or more subsequent period.

11.0 Provision:

A provision is recognised when an enterprise has a present obligation as a result of past event; it is probable that an outflow of resources embodying economic benefit will be required to settle the obligation, in respect of which a reliable estimate can be made. Provisions are not discounted to present value and are determined based on best estimate required to settle the obligation at the balance sheet date.

12.0 Contingent Liability:

Contingent liability is a possible obligation that arises from past events and the existence of which will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the enterprise or a present obligation that arises from past events but is not recognised because it is not probable that an outflow of resources embodying economic benefit will be required to settle the obligations or reliable estimate of the amount of the obligations cannot be made.

Contingent liabilities are not provided for in the accounts and are disclosed by way of Notes.

Contingent asset are neither recognised nor disclosed in the financial statements.

13.0 Earning 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.

14.0 Prior Period Adjustments and Prepaid Expenses:

Income / expenditures relating to prior period and prepaid expenses, which do not exceed ₹ 0.10 Cr. in each case are treated as income / expenditure of current year.

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED**NOTE - 34****ADDITIONAL NOTES ON ACCOUNTS****1. APPLICABILITY OF ACCOUNTING STANDARDS:****a) Significant Accounting Policy:**

Significant accounting policy (Note-33) has been suitably modified/ re-drafted over previous year, as found necessary to elucidate the accounting policies adopted by the Company.

b) Revenue Recognition (AS-9)

- (i) The revenue recognition has been made where there is a reasonable certainty of collection. Revenue recognition is postponed in case of uncertainty to the extent of uncertainty as assessed by the management.
- (ii) Refund / adjustment from Tax Authorities are accounted for on the basis of final assessment/ settlement.
- (iii) Recovery of the liquidated damages and penalties are accounted for on the basis of final settlement.

c) Employee Benefits: Recognition and Measurement: (AS-15)

- (1) The year-end liability of certain other employee benefits like Gratuity, Earned Leave, Life Cover Scheme, Settlement Allowance, Group Personal Accident Insurance Scheme, Leave Travel Concession, Medical Benefits for Retired Executives, Compensation to dependents in case of mine accidental death are valued on actuarial basis. Total liability as on Balance Sheet date based on valuation made by the Actuary, details of which are mentioned below is ₹ 259.56 Crores.



(2) The Actuarial liability as on 31.03.2016.

₹ In Crores

Head	Opening Actuarial Liability as on 01.04.2015	Incremental Liability	Closing Actuarial Liability as on 31.03.2016
Gratuity	121.38	-9.57	111.81
Earned Leave	57.70	-0.16	57.54
Half Pay Leave	23.47	0.12	23.35
Life Cover Scheme- Executive	0.19	-0.01	0.18
Life Cover Scheme - Non-Executive	0.53	-0.03	0.50
Settlement Allowance Executives	0.62	1.22	1.84
Settlement Allowance Non-Executives	2.09	-1.05	1.04
Group Personal Accident Insurance Scheme	0.05	0	0.05
Leave Travel Concession - Executive	4.08	1.12	5.20
Leave Travel Concession - Non-Executive	7.36	1.22	8.58
Medical Benefits	49.84	-1.05	48.79
Post-Retirement Medical Benefit for non-executives	0.00	0.68	0.68
Compensation to dependents in case of mine accidental death	0.00	0.00	0.00
TOTAL	267.31	-7.51	259.56

(3) Gratuity: Actuarial Assumptions:

The disclosure as per actuary's certificate for funded employee benefits for Gratuity is given below:

ACTUARIAL VALUATION OF GRATUITY LIABILITY AS AT 31.03.2016

CERTIFICATE AS PER ACCOUNTING STANDARD 15 (Revised 2005)

Table 1: DISCLOSURE ITEM 120 (c)

₹ In Crores

Present Value of Obligations	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Present value of obligation at beginning of the year	121.38	122.72
Acquisition Adjustment	0.00	0.00
Interest Cost	9.35	9.22
Past Service Cost	0.00	0.00
Current Service Cost	10.63	7.94
Curtailement Cost	0.00	0.00
Settlement Cost	0.00	0.00
Benefits paid	9.09	14.91
Actuarial Gain / Loss on obligations	-20.46	-3.59
Present Value of Obligations as at 31.03.2016	111.81	121.38

Table 2: DISCLOSURE ITEM 120 (e)

₹ In Crores

Fair Value of Plan Assets	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Fair value of Plan Assets at beginning of the year		
Acquisition Adjustment	0.00	0.00
Excepted Return on Plan Asset	0.00	0.00
Contributions	0.00	0.00
Benefits Paid	30.08	0.00
Actuarial Gain /Loss on Plan Asset	9.08	0.00
Fair value of Plan Asset as at 31.03.2016	2.22	0.00
	23.22	0.00

Table 3: DISCLOSURE ITEM 120 (f)

₹ In Crores

Funded Status	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Present Value of obligation as at 31.03.2016		
Fair value of Plan Assets as at 31.03.2016	111.81	0.00
Funded Status	23.22	0.00
Un-recognized Actuarial gain / Loss at end of the Period	-88.59	0.00
Net Asset (Liability) Recognised in Balance sheet	0.00	0.00
	-88.59	0.00

Table 4: DISCLOSURE ITEM 120 (g)

₹ In Crores

Expenses Recognized in Statement of Profit & Loss	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Current Service Cost		
Past Service Cost	10.63	7.94
Interest Cost	0.00	0.00
Expected Return on Plan asset	9.35	9.22
Curtailement Cost	0.00	0.00
Settlement Cost / Benefit paid	0.00	0.00
Actuarial Gain/Loss Recognised in the period	0.00	0.00
Expense Recognised in statement of Profit /Loss	-22.68	-3.59
	-2.71	13.57

Table 5: DISCLOSURE ITEM 120 (i)

Actuarial Assumptions	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Mortality table	IALM(2006-08) ULTIMATE	IALM(2006-08) ULTIMATE
Superannuation age	60	60
	10 per Thousand P.A.	10 per Thousand P.A.
Early retirement and disablement	6 above age 45	6 above age 45
	3 between age 29 and 45	3 between age 29 and 45
	1 below age 29	1 below age 29
Discount Rate	8.00%	8.00%
Inflation rate	6.25%	6.25%
Return on assets	8.00%	8.00%
Remaining working life	11 Years	11 Years
Formula used	Projected Unit Credit Method	Projected Unit Credit Method



Table 6: DISCLOSURE ITEM 120 (o)

₹ In Crores

Movements in the Liability Recognized in Balance Sheet	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Opening Net Liability	121.38	0.00
Expenses as above	-2.71	13.57
Contributions	30.08	0.00
Closing Net Liability	88.59	13.57
Closing Fund/Provision as at 31.03.2016	111.81	121.38

ACTUARIAL VALUATION OF LEAVE ENCASHMENT BENEFIT (EL/HPL) AS AT 31.03.2016
CERTIFICATE AS PER ACCOUNTING STANDARD 15 (Revised 2005)

Table 1: DISCLOSURE ITEM 120 (c)

₹ In Crores

Present Value of Obligations	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Present value of obligation at beginning of the year		
Acquisition Adjustment	81.18	76.50
Interest Cost	0.00	0.00
Past Service Cost	5.92	5.37
Current Service Cost	0.00	0.00
Curtailement Cost	6.95	5.43
Settlement Cost	0.00	0.00
Benefits paid	0.00	0.00
Actuarial Gain / Loss on obligations	14.39	18.74
Actuarial Gain / Loss on obligations	1.24	12.61
Present Value of Obligations as at 31.03.2016	80.89	81.17

Table 4: DISCLOSURE ITEM 120 (g)

₹ In Crores

Expenses Recognized in Statement of Profit & Loss	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Current Service Cost		
Past Service Cost	6.95	5.43
Interest Cost	0.00	0.00
Expected Return on Plan asset	5.92	5.37
Curtailement Cost	0.00	0.00
Settlement Cost / Benefit paid	0.00	0.00
Actuarial Gain/Loss Recognised in the period	0.00	0.00
Actuarial Gain/Loss Recognised in the period	1.23	12.61
Expense Recognised in statement of Profit /Loss	14.10	23.41

Table 5: DISCLOSURE ITEM 120 (i)

Actuarial Assumptions	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Mortality table	IALM(2006-08) ULTIMATE	IALM(2006-08) ULTIMATE
Superannuation age	60	60
	10 per Thousand P.A.	10 per Thousand P.A.
Early retirement and disablement	6 above age 45	6 above age 45
	3 between age 29 and 45	3 between age 29 and 45
	1 below age 29	1 below age 29
Discount Rate	8.00%	8.00%
Inflation rate	6.25%	6.25%
Return on assets	8.00%	8.00%
Remaining working life	11 Years	11 Years
Formula used	Projected Unit Credit Method	Projected Unit Credit Method

Table 6: DISCLOSURE ITEM 120 (o)

₹ In Crores

Movements in the Liability Recognized in Balance Sheet	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Opening Net Liability	0.00	0.00
Expenses as above	14.10	23.41
Contributions	0.00	0.00
Closing Net Liability	14.10	23.41
Closing Fund/Provision as at 31.03.2016	80.89	81.17

d) SEGMENT REPORTING (AS-17)

The Company is primarily engaged in a single Segment business of Consultancy, there is no reportable primary segment identifiable in accordance with the Accounting Standard (AS-17) on Segment Reporting.

e) RELATED PARTY DISCLOSURE (AS-18)

In view of the exemption granted to State controlled enterprises as regards related party relationship with other State controlled enterprises and there being no transaction with other related enterprises & parties, no such disclosure under the Accounting Standard (AS-18) on Related Party Disclosures is required.

f) EARNING PER SHARE (AS-20)

		For the Period ended 31.03.2016	For the Period ended 31.03.2015
(i)	Profit after Tax (₹In Crore)	28.48	25.04
(ii)	Profit attributable to Equity Shareholders (₹In Crore)	28.48	25.04
(iii)	No. of Equity Shares for Basic & diluted EPS	190400	190400
(iv)	Nominal value of Equity share (₹)	1000.00	1000.00
(v)	Basic & Diluted Earnings per Share (₹)	1496	1315



g) ACCOUNTING FOR TAXES ON INCOME (AS-22)

- (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 Mar, 2016 and as at 31st March 2015 is given below:-

₹ In Crores

Deferred Tax Liability:	As at 31.03.2016 (Audited)	As at 31.03.2015 (Audited)
Related to Fixed Assets	7.61	6.22
Deferred Tax Asset:		
Provision for doubtful Debts, claims, etc.	0.87	0.97
Employee separation and retirement	107.01	111.54
Others	0.20	0.14
Total deferred tax Assets	108.08	112.65
Net Deferred Tax Asset/ (Deferred Tax Liability) :	100.47	106.43

h) Impairment of Assets (AS-28)

No external or internal indicators exist to show that the assets of CMPDI are impaired on the Balance Sheet date.

i) Contingent Liabilities, Commitments and Contingent Assets (AS-29)

I) Contingent Liabilities: Following suits are pending against the company at different forums. The financial impact, wherever available has been taken under contingent liabilities below, however, for other cases, management does not see any considerable impact on the financial position of the Company.

₹ In Crores

Sl. No.	Description	Current Year	Previous Year
1	Central Govt.	29.72	29.81
2	State Govt. and Local Authority	0.17	0.17
3	CPSEs	0.00	0.00
4	Others	4.44	4.40

II) Outstanding letters of Credits as on Balance Sheet date amounted to ₹ Nil Crores.

III) The Company has given Bank Guarantees of ₹0.14Crore (₹0.14 Crore) for which there is a floating charge on Current Assets of the Company.

Commitments:

(i) The amount remaining to be executed on capital account not provided for is ₹25.48 Crores (₹30.35 Crores).

Theft case:

Theft case amounts to ₹ 0.01 crores has been reported during the period.

2(a) VALUE OF IMPORTS ON CIF BASIS:

₹ In Crores

Details	For the year ended 31.03.2016	For the year ended 31.03.2015
Stores & Spares	0.27	1.08
Capital Goods	7.20	4.96

2(b) TOTAL CONSUMPTION OF STORES (Refer Note No. 22)

₹ In Crores

Particulars	For the year ended 31.03.2016		For the year ended 31.03.2015	
	Amount ₹ in Crores	% of Total Consumption	Amount ₹ in Crores	% of Total Consumption
Imported	0.00	0.00	0.00	0.00
Indigenous	21.92	100.00	21.43	100.00
Total	21.92	100.00	21.43	100.00

2 (c) EXPENDITURE INCURRED IN FOREIGN CURRENCY ON ACCOUNT OF:

₹ In Crores

Particulars	For the year ended 31.03.2016	For the year ended 31.03.2015
Traveling Expenses	0.27	0.16
Others	7.44	6.15

3 (A) DIRECTORS'/ KMPs REMUNERATION

₹ In Crores

Name of KMP	Salary	Pf	Others(medical, LE, PRP, etc)	Sitting Fees	Total
A K Debnath (CMD) {Upto 31.12.2015}	0.15	0.02	0.07	0.00	0.24
D K Ghosh (Director Technical) {Upto 30.11.2015}	0.13	0.02	0.11	0.00	0.26
R K Chopra (Director Technical) {Upto 30.09.2015}	0.09	0.01	0.10	0.00	0.20
Shekhar Saran (CMD) {From 01.01.2016}	0.21	0.03	0.06	0.00	0.30
V K Sinha (Director Technical)	0.19	0.03	0.12	0.00	0.34
Binay Dayal (Director Technical)	0.07	0.01	0.03	0.00	0.11
B N Shukla (Director Technical)	0.09	0.01	0.03	0.00	0.13
R.K. Mittal (Independent Director)	0.00	0.00	0.00	0.02	0.02
Rajender Parshad (Independent Director) {From 17.11.2015}	0.00	0.00	0.00	0.01	0.01
Debasish Gupta (Independent Director) {From 17.11.2015}	0.00	0.00	0.00	0.01	0.01
P Lazar (Company Secretary)	0.15	0.02	0.07	0.00	0.24
Abhishek Mundhra (Company Secretary)	0.09	0.01	0.01	0.00	0.11



(2014-15):

₹ In Crores

Name of KMP	Salary	PF	Others(medical, LE, PRP, etc)	Sitting Fees	Total
A K Debnath (CMD)	0.19	0.03	0.08	0.00	0.30
D K Ghosh (Director Technical)	0.18	0.02	0.08	0.00	0.28
R K Chopra (Director Technical)	0.18	0.02	0.07	0.00	0.27
Shekhar Saran (Director Technical)	0.18	0.02	0.07	0.00	0.27
V K Sinha (Director Technical)	0.16	0.02	0.12	0.00	0.30
R.K. Mittal (Independent Director)	0.00	0.00	0.00	0.02	0.02
P Lazar (Company Secretary)	0.15	0.02	0.04	0.00	0.21

4. BALANCE CONFIRMATION

Balance confirmation/ reconciliation is carried out for all bank balances; all major loans & advances, Trade Receivables, long term liabilities and current liabilities. Provision is taken against all doubtful unconfirmed balances.

5. USE OF ESTIMATE

In preparing the financial statements in conformity with accounting principles generally accepted in India, management is sometimes required to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosures of contingent liability as at the date of financial statements and the amount of revenue and expenses during the reported period. Actual results may differ from those estimates. Any revision to such estimate is recognized in the period in which the same is determined.

6. PREVIOUS YEAR'S FIGURES

Previous Year's figures have been regrouped and rearranged wherever considered necessary. Figures in the parentheses relating to the notes/additional notes of Balance sheet and Statement of Profit & Loss correspond to period of the previous year.

Note 1 to 19 form part of the Balance Sheet as at 31st March, 2016 and note 20 to 32 form part of Statement of Profit & Loss for the year ended on that date. Note-33 represents Significant Accounting Policies and Note-34 represents additional notes on the Accounts.

Signature to Note 1 to 34.

Sd/- (A.Mundhra) Company Secretary	Sd/- (D. K. Rao) General Manager (Finance)	Sd/- (V. K. Sinha) Director DIN-06793778	Sd/- (Shekhar Saran) Chairman-cum-Managing Director DIN-06607551
-------------------------------------------------	---------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------------------------------

In terms of our report of even date attached

For K.C.Tak & CO.

Chartered Accountants

Firm Registration No. : 000216C

Sd/-
(CA Anil Jain)

PARTNER

Membership No. : 079005

Date : 25th May, 2016

Place : Kolkata