Annual Report & Accounts 2013-14



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

(A Subsidiary of Coal India Limited)

A Mini Ratna Company

GONDWANA PLACE: KANKE ROAD

RANCHI - 834 031

CIN: U14292JH1975GOI 001223

Annual Report & Accounts 2013-14

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.

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BOARD OF DIRECTORS



Sri Amal Kumar Debnath Chairman-cum-Managing Director



Sri D. K. Ghosh



Sri R. K. Chopra



Sri Shekhar Saran



Sri V. K. Sinha



Sri N. Kumar



Sri D. N. Prasad



Shri Rakesh K. Mittal

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

MANAGEMENT DURING 2013-2014

Shri Amal Kumar Debnath	:	Chairman-cum-Managing Director (From 19.02.2013)
Functional Directors		
Shri Baidya Nath Basu	:	Director (Technical) (Upto 31.05.2013)
Shri Dilip Kumar Ghosh	:	Director (Technical) (From 13.10.2011)
Shri Rajesh Kumar Chopra	:	Director (Technical) (From 13.01.2012)
Shri Shekhar Saran	:	Director (Technical) (From 01.06.2013)
Shri V.K. Sinha	:	Director (Technical) (From 08.01.2014)
Part – time Official Director		
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		
Prof. Vedala Rama Sastry	:	Director (Upto 23.12.2013)
Shri Pramod Kumar Misra	:	Director (Upto 23.12.2013)
Dr. Mukesh Khare	:	Director (Upto 23.12.2013)
Prof. P. K. J. Mohapatra	:	Director (Upto 23.12.2013)
Shri Rakesh Kumar Mittal	:	Director (From 01.11.2013)
Permanent Invitee		
Shri Sharad Ghodke	:	Director, Ministry of Coal, New Delhi
Company Secretary		
Shri P. Lazar	:	Dy. G. M. (Finance) / Company secretary (From 01.04.2011)

MEMBERS OF THE BOARD AS ON 01.05.2014

Functional Directors

Shri Amal Kumar Debnath	:	Chairman-cum-Managing Director
Shri Dilip Kumar Ghosh	:	Director (Technical)
Shri Rajesh Kumar Chopra	:	Director (Technical)
Shri Shekhar Saran	:	Director (Technical)
Shri V.K. Sinha	:	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.

Part-time Non-Official Director

Shri Rakesh Kumar Mittal	: Independent Director
Permanent Invitee	
Shri Sharad Ghodke	: Director, Ministry of Coal, New Delhi
Company Secretary	
Shri P. Lazar	: Dy. G. M. (Finance) / Company secretary

BANKERS, AUDITORS AND REGISTERED OFFICE

BANKERS

State Bank of India	
United Bank of India	
Canara Bank	
Bank of Maharashtra	
Union Bank of India	
Central bank of India	
UCO Bank	
Syndicate Bank	

AUDITORS

M/s TODI TULSYAN & Co. (ER0043) Chartered Accountants, 602, LUV KUSH TOWER Exhibition Road, Patna – 800 001 (Bihar)

REGISTERED OFFICE

Central Mine Planning & Design Institute Limited, Gondwana Place, Kanke Road, Ranchi - 834 031, Jharkhand, India CIN: U14292JH1975GOI 001223

Ph. No. : 0651-2230169 Fax No. : 0651-2231447 E-mail : company_secretary@cmpdi.co.in Website: www.cmpdi.co.in

NOTICE FOR 39th ANNUAL GENERAL MEETING

Ref. No. CS/AGM-39/2014/3145

Dated:15th May,2014

Notice is hereby given to all the shareholders of Central Mine Planning & Design Institute Limited that the 39th Annual General Meeting of the Company will be held on 10th June 2014, the Tuesday at 11.00 A.M. at the Registered Office of the Company, Gondwana Place, Kanke Road, Ranchi to transact the following business:

ORDINARY BUSINESS :

- To receive, consider and adopt the Audited Balance Sheet as on 31st March, 2014 and Profit & Loss Account for the year ended on that date along with the Notes attached thereto and the Reports of Statutory Auditor and Comptroller & Auditor General of India thereon with the replies given by the management.
- 2. To receive and adopt the Report of the Board of Directors for the year 2013-14.
- 3. To appoint a Director in place of Sri N. Kumar, official part-time Director who retires in terms of Article 34 (1) (e) (iii) of the Articles of Association of the Company and is eligible for re-appointment.
- 4. To appoint a Director in place of Sri D. N. Prasad, official part-time Director who retires in terms of Article 34 (1) (e) (iii) of the Articles of Association of the Company and is eligible for re-appointment.

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

Sd/-

(P. Lazar) Dy. General Manager (Finance)/ Company Secretary

Registered Office : Central Mine Planning & Design Institute Limited, Gondwana Place, Kanke Road, Ranchi - 834 031, Jharkhand, India

- **N.B.** 1. A member entitled to attend and vote, is entitled to appoint a proxy to attend and vote instead of him self and the proxy need not be a member of the Company.
 - 2. Pursuant to Section 224(8) of the Companies act 1956, the members of the company in its 27th Annual General Meeting held on 26th September 2002 authorised the Board of Directors to fix the remuneration of Statutory Auditors appointed by Comptroller and Auditor General of India under Section 619(2) of the Companies act 1956.
- ToAll the ShareholdersThe Auditors of the CompanyThe Chairman of the Audit CommitteeAll the Directors of the Company



Shri Amal Kumar Debnath Chairman-cum-Managing Director

Chairman's Statement

Dear Shareholders,

I have great pleasure to extend a very warm welcome to all of you to the 39th Annual General Meeting of CMPDIL and present to you the Annual Report of your Company for the financial year 2013-14. The Report of Directors and the Audited Accounts of your Company for the period ended 31st March, 2014 together with Report of the Statutory Auditors and the report and 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.

Your company has been providing 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 clients other than CIL including clients from metal mining sectors. Additionally, CMPDI also renders services to MoP & NG and Ministry of Coal 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 increasing the level of expertise of CMPDI personnel, significant build up of infra structural 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. 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. Moreover, changing business scenario and consequent changes in opportunities in the mining sector within the country and abroad fuelled exodus of experts mainly after 2000. Although, introduction of ISO Standards and computerization to some extent, including use of software related to mining industry, and addition of some equipment especially related to environmental facilities and coal characterization 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 turn-over was also around Rs. 150 to Rs. 200 crores (Rs. 151 crore in 2004-05 and Rs. 196 crore in 2007-08). This non-sustenance of advancement in respect of level of expertise, upgradation of technical facilities and support services and reaching a plateau in respect of the services being rendered by the company to the coal industry was necessitated to be thwarted and the

distinctiveness of the company was required to be kept preserved for the interest of the coal sector as a whole in foreseeable future as CMPDI had been the herald to technological innovations and strategies adopted in the coal sector.

It was conceived that CMPDI would not only need upgradation of manpower skill and infrastructural facilities but also substantial expansion in its role as an exploration agency, consultant, technical service provider and an R&D institute. The possible way-out was in terms of enhancement in the exploration capacity, upgradation and modernisation of existing facilities and infrastructure, 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.

2. Financial Performance:

During the financial year 2013-14, your company has achieved highest turnover of Rs. 647.43 crore, registering an increase of Rs. 46.38 crore over last year turnover of Rs. 601.05 crore with a profit before tax of Rs. 34.60 crore. The net worth of your company has risen to Rs. 155.88 crore as on 31.03.2014 from Rs. 134.89 crore as on 31.03.2013.

3. Drilling Performance:

Your company carried out 6.97 lakh meter of drilling during 2013-14 in comparison to 5.63 lakh meter of drilling carried out during 2012-13 through departmental resources and outsourcing, registering a growth of 24% over previous year. The target for 2014-15 has been substantially increased to 12 lakh metre which is further required to be raised to a level of 15 lakh meter per year by the 2015-16 (departmental exploration capacity to be raised to a level of 4 lakh meter), considering 54.46 lakh meter of drilling target for the XII Plan period in CIL, non-CIL and SCCL areas. This 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 1.5 lakh meters from 2012-13. Under MOU between CMPDI and MECL, drilling has been taken up in 14 blocks during 2013-14 by MECL. CMPDI has outsourced 26 coal blocks since 2008 to private agencies through different rounds of national and global tenders. Further 'e-tendering' was introduced for outsourcing of coal blocks for detailed exploration during 2012-13 and work has been successfully awarded for 16 blocks through E-tendering and drilling work has started in 13 blocks.

4. ICRIS:

Coal Resource data of the country has been captured in digital form to create a data base at all the coalfields of India as part of project entitled 'Integrated Coal Resource Information System (ICRIS)', approved by the Ministry of Coal, Govt. of India. Updation of geological models and data continued. Modelling of 89 zones has been carried out till 2013-14, out of which data of 28 zones of different coalfields have been uploaded in the database of ICRIS (Integrated Coal Resource Information System) website icris.cmpdi.co.in. The site can be used by different stake holders for gathering information of different coalfields.

5. **Project Reports**:

A total of 126 projects were identified for XII Plan resulting in capacity addition about 446 Mt, against which, project reports for 93 projects, with capacity addition of about 337 Mt have already been formulated.

During the year under review, 26 Project Reports have been prepared with capacity addition of about 81 Mt. Balance 33 Project Reports with capacity addition of about 109 Mt will be formulated in subsequent years of XII Plan. Further, classification of coal reserves/resources for mines/blocks in CIL command area as on 1.4.2013 was done based on United Nations Framework Classification (UNFC).

6. Upgradation of Laboratories:

Upgradation of laboratories in your company continued this year also. Environmental Laboratory at CMPDI, Regional institute-I, Asansol was renovated. The analysis facilities in the laboratory for Air and Water samples have been enhanced to meet the requirement of CPCB/MoEF. The laboratory is having state of the art equipment like Atomic Absorption Spectrophotometer, Visible Spectrophotometer, Microprocessor based Spectrophotometer, Meteorological Data Logger, Respirable Dust Sampler, etc. It will cater to the needs of environmental monitoring of all the Coal Mines of Eastern Coalfields Ltd (ECL). CMPDI is also in the process of enhancing capacity of already existing state of the art CBM lab which has been added with facility of TOC equipment for shale gas potentiality assessment. Rock Eval Pyrolysis equipment required for assessing shale gas prospectivity is under procurement process and is expected to be procured shortly. With the acquisition of this equipment CBM lab will be equipped with technologically driven instruments fulfilling the analytical requirement of Shale gas studies.

7. Manpower Induction:

Manpower requirement to cater enhanced targets of Exploration, Planning and Design as well as allied engineering services has been addressed to a large extent. During the year 2013-14, 46 nos. of Management Trainees (MTs), in different disciplines, have been posted through recruitment and transfer in CMPDI. Similarly, non-executive manpower has been brought from other subsidiaries of CIL as well as through outside recruitment. However, this is a continuous process for maintaining the level of expertise in number terms.

8. 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 land reclamation monitoring of the opencast coal mines of CIL having production less than 5 million m³ per annum was also taken up from the year 2011 at the interval of three years. Land reclamation monitoring of 82 nos. of opencast projects of CIL (includes 50 nos. of opencast mines having production more than 5 million m³ per annum) based on high resolution satellite data was completed during 2013-14. The result of land reclamation status of all opencast coal mines of CIL having production more than 5 million m³ (coal +OB) per annum has been put up on the website of CIL in public domain. Additionally, Vegetation cover mapping of six coalfields viz. Jharia, Talcher, Bisrampur, Wardha Valley, Kamptee and Makum coalfield based on satellite data have been completed for assessing the regional impact of coal mining on land use/ vegetation cover in the span of 3 years to take remedial measures required, if any.

9. Assistance for setting up of coal washeries:

Your company has been providing assistance to the subsidiary companies of CIL for setting up of coal washeries, particularly, in works like testing of run-of-mine (ROM) coal, planning, BID process management and assistance in construction & commissioning of washeries. It is expected that considering the large scale requirement of washing of coal in the country, there would be major spurt in services being provided

by us. Foreseeing this, engineers from prestigious institutions have been inducted for strengthening the capability. Additionally, the Coal Preparation laboratory has been upgraded with procurement and installation of new equipment to cater to the future requirement for washability tests, etc.

10. Environmental Services:

Environmental services rendered by your company to CIL during 2013-14 included preparation of 26 nos. of Form-I and formulation of 14 nos. of draft EMPs (Environment Management Plans). Environmental Monitoring (air, water and noise) of 301 projects / establishments of CIL were carried out through nine environmental laboratories located at Asansol, Nagpur, Bilaspur, Kusmunda, Hasdeo, Jayant, Talcher, Ib Valley and Ranchi. In terms of the revised guidelines issued by Ministry of Coal in 2013, CMPDI has prepared 257 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, capacity enhancement in respect of environmental services rendered by us would be required on a continual basis.

11. Alternative source of coal based energy:

Adopting alternative source of coal based non-renewable energy generation like Coal Bed Methane / Coal Mine Methane, Underground Coal Gasification (UCG) and Coal Liquefaction, etc., has been stressed to meet energy needs to the extent possible. CMPDI is generating CBM related data under Promotional (Regional) Exploration (PRE) programme of MoC for enlarging CBM resource base. Development of Shale gas has also emerged as a promising area of operation for your company. DGH had awarded the consultancy work of delineation and preparation of Data Dossiers on prospective CBM blocks in Cambay basin, Singrauli and Johilla Coalfields for forthcoming CBM Round to CMPDI in May 2011. Final Data Dossiers on identified 8 blocks were submitted to DGH. DGH had also assigned the consultancy work of delineation of Data Dossiers for six prospective Shale Gas blocks within Gondwana Basin to CMPDI in May, 2011. Final Data Dossiers on Raniganj, Jharia, Bokaro, South Karanpura, North Karanpura and Sohagpur basins were submitted to DGH.

Development of coal based alternate energy sources has been made one of the priority areas of operation for your company. To facilitate development of Coal Mine Methane, an India CMM/CBM Clearinghouse was established in CMPDI, Ranchi in November, 2008 at the instance of MoC under the aegis of MoC and USEPA. 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 terms of India CBM/CMM clearinghouse has been extended for a further period of 3 years which indicates the recognition of the efforts made in the field of mitigation of greenhouse gases and development of CMM at an international level. An International Workshop on "Development of Coal based non-conventional energy resources in India" was also organised at CMPDI, Ranchi, on 12th-13th November, 2013, under the aegis of India CMM/CBM Clearinghouse. The workshop was attended by high level functionary of MoC, MoP & NG, captains of the Indian coal industry, international experts of CBM/CMM/Shale gas, representatives of industries, technical, research and educational institutions.

CMPDI has been identified as the Nodal agency by Ministry of Coal, Govt. of India for the development of CMM in India and steps have been taken for commercial development of CMM within CIL areas. CMPDI has closely pursued the issue regarding operationalization of CMM with Ministry of Coal and Ministry of Petroleum and Natural Gas and with the constant pursuit of CMPDI, the matter got resolved between

the two Ministries in Aug.'2012 and has paved the way for taking up commercial development of CMM. Further, reportedly CCEA has granted its approval in December, 2013 allowing CIL to explore and exploit CMM from its coal mining areas. A formal communication in this regard is awaited after which further activities will be taken by CMPDI/CIL for development and exploitation of CMM.

CMPDI is the only identified company from India along with IIT Kharagpur, as a collaborative partner of the Multi-country multi-organization (5 countries and 12 partners) research project 'Greenhouse Gas recovery from coal mines and unmineable coalbeds and conversion to Energy (GHG2E)'. The Project Coordinator along with team reviewed the progress at CMPDI on 13th Nov.'13 and visited Moonidih mine on 14th Nov.'13 to finalise data acquisition sites and draw action plan to generate samples. A review meeting was held with IIT Kharagpur at CMPDI on 24th Jan.'14. CMPDI is pursuing its assigned tasks as a collaborative partner and efforts made by CMPDI were appreciated.

CMPDI, on behalf of CIL, is proceeding ahead for selection of Developer for commercial development of Underground Coal Gasification(UCG) in two blocks viz. Kaitha Block, CCL and Thesgora'C' Block, WCL within CIL command area and e-tender for the purpose has been floated in January 2014 and tender and the offers will be received up to 17th April 2014. It will be first of its kind tender for development of UCG on commercial basis in India and will facilitate bringing of a new and high end technology in India.

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

Your company is the nodal agency for S&T Projects sponsored by Ministry of Coal and R&D projects executed by CIL. Over the past 38 years, CMPDI has worked for the betterment of the mining industry through technology and innovation, and worked hand-in-hand with companies on a regular basis to help them convert research achievements into business success. During 2013-14, 12 nos. of R&D and S&T projects were completed. The competed projects were pertaining to Integrated communication system to communicate and locate trapped underground miners, Design and development of coal winnowing system for dry beneficiation of coal based on CFD modelling and simulation, Development of Methodology for estimation of Greenhouse Gas emissions in mine fire areas and their mitigation through terrestrial sequestration, Development of tribo-electrostatic separator for beneficiation of high ash Indian coking coals, Analysis of in-situ stress for CBM exploration in Jharia Coalfield, Effective utilization of low rank and low volatile high rank Indian coking coals for Blast Furnace (BF) coke making, Feasibility study of High Angle Conveying System (HAC) in Open Cast Coal Mines by Computer Modelling and Simulation, Investigation on augmentation of life of dump truck tyres through the improvement of the tyre re-treading compound and development of an optimum road maintenance management system - Phase -II, etc. Some of the ongoing research projects related to demonstration of coal beneficiation system using radiometric technique, Indigenous development of integrated dumper collision avoidance system for OC mines, Assessment of prospect of shale gas in Gondwana basin, Development of self advancing (mobile) goaf edge support for depillaring operation in underground mines, etc. Further to expand R&D base in coal sector, CMPDI is making all out efforts to involve more and more research and academic institutions, including private organizations with adequate infrastructure and expertise. CMPDI had invited Expression of Interest (EoI) for undertaking R&D work on thirteen selected topics out of which four topics viz. CBM reserve estimation for Indian Coalfields, Online washabality analysis by using CT system, Early warning system for prediction of roof fall in underground mines and highwall failure in opencast mines were shortlisted. Out of this, R&D projects on 'CBM reserve estimation for Indian Coalfields' and 'Online washabality analysis by using CT system' has been approved and are in progress since March'14.

CMPDI has also taken up an R&D Project on 'Design, Develop and Demonstrate a Micro-Grid system for optimization and control of Multiple source of power supply' with GERMI (Gujarat Energy Research and Management Institute), Gujarat. Detailed design of Micro Grid Solar System of 200kW Capacity for optimization and control of multiple sources of power supply at CMPDI complex has been completed and Letter of Award has been issued to M/s Titan Energy Systems. The detailed survey work of the site has been conducted.

13. E-Procurement and Contract Management:

E-Procurement and Contract Management Division has been created in CMPDI with the primary objective of implementation of e-procurement system (EPS) in all the Contracts concluded by CMPDI, HQ and the Regional Institutes spread over 6 States. CMPDI has successfully implemented EPS in the Contracts related to Drilling Outsourcing, purchase of goods and Civil Contracts.

It is a matter of pride for CMPDI that for the first time in the history of Public Sector Undertakings in India, turnkey tender for construction of Coal Handling Plant at Jayant Project of NCL has been taken up through electronic mode. In due course, all turnkey tenders related to Coal Handling Plants and Coal Washeries will also be done through EPS in addition to tenders related to other works and services.

14. 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, sustainable development and inclusive growth was emphasized and practiced by CMPDI. Major activities carried out during the year 2013-14 include Installation of Waste Paper Recycling Plant at CMPDI (HQ), Ranchi, Energy Conservation by replacing conventional lights at CMPDI, RI-IV, Nagpur, Rain Water Harvesting at CMPDI, RI-VII, Bhubaneswar and Establishment of web based feedback system from key stakeholders (villagers, employees, etc.) regarding the performance of the company in social, economical and environmental sustainability.

15. Consultancy Services in the area of Quality Assurances:

Certifications/recertification of 65 units (including 38 newly certified units) was achieved for different management system standards, under the guidance of CMPDI. Certifications for OHSAS 18001 and ISO 17025 were also achieved for the first time for the Environment Lab of CMPDI. Besides these, two subsidiaries of CIL viz. MCL & NCL were certified/recertified for a company-wide Integrated Management System (IMS integrating ISO 9001, ISO 14001 & OHSAS 18001).

16. Consultancy-Other than CIL:

Over the years, your company has been providing consultancy services to organizations other than CIL, not only in Coal & Lignite but also in other minerals. Against the MoU target to obtain Rs. 22.00 crore worth consultancy jobs outside CIL during 2013-14, CMPDI has obtained 36 work orders worth Rs. 23.35 crores. This includes consultancy jobs worth Rs. 12.10 crores from Ministry of Coal for 'Preparation of Detailed Project Report of 6 numbers explored coal blocks for captive bidding' as well as providing comments on 'Mining plan & Mine closure Plans' and 'Mine Closure Plans' of coal / lignite blocks forwarded by MoC. During 2013-14, Consultancy services were provided to 20 organizations for 29 jobs. Some of the important clients/organizations are Neyveli Lignite Corporation Limited, MOIL Limited, National Thermal

Power Corporation, Steel Authority of India Limited, National Aluminium Company Limited, Jindal Steel & Power Limited, Singareni Collieries Company Limited, Damodar Valley Corporation, etc.

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 Department of Public Enterprise'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 consistently rating from 2007-08 to 2009-10 and adjudging it the 'Best performing Subsidiary Company of CIL' for the year 2008-09 as per MoU rating. CMPDI achieved excellent MoU rating for 2011-12 and 2012-13. CMPDI received award for 'Highest MoU Score in 2012-13' amongst CIL subsidiary companies on the occasion of CIL Foundation day 2013 celebrated on 1st November, 2013 at Kolkata from Hon'ble Minister of Coal.

Your Company received, "Geospatial World Excellence Award 2012" in recognition of excellent usage of Geospatial technology for Land Reclamation Monitoring of Coal Mines on behalf of Coal India Limited in Amsterdam, the Netherlands on 24th April, 2012. A total of 149 nominations were received for the above award, out of which, CIL was selected by a panel of eminent international jury for this prestigious award.

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 made because of the concerted efforts of employees of your company, whole¬hearted 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.

Sd/-

(A.K. DEBNATH)

Date : 10.06.2014

Place : Ranchi

Chairman cum Managing Director

	Particulars	Unit	2009-10	2010-11	2011-12	2012-13	2013-14
1	Sales of Services (Net Sales)	₹ in crore	453.53	429.09	524.03	601.05	647.43
2	Profit before Tax	₹ in crore	19.61	23.69	30.79	29.77	34.60
3	Profit after Tax	₹ in crore	11.46	15.32	19.61	25.05	19.57
4	Retained Profit	₹ in crore	11.46	15.32	19.61	25.05	19.57
5	Net Block	₹ in crore	67.56	71.95	78.06	75.18	71.45
6	Net Worth	₹ in crore	73.78	87.92	110.92	134.89	155.88
7	Current Assets	₹ in crore	417.88	409.67	466.93	580.21	629.85
8	Current Liabilities	₹ in crore	317.26	319.66	347.72	446.06	491.13
9	Working Capital [(7) - (8)]	₹ in crore	100.62	90.01	119.21	134.15	138.72
10	Capital Employed	₹ in crore	168.18	161.96	197.27	209.33	210.17
11	Gross Margin	₹ in crore	27.30	26.51	36.68	42.61	44.09
12	Value Added	₹ in crore	10.48	10.31	16.95	21.68	23.07
13	Number of Employees	Numbers	3156	3102	3129	3142	3135
14	Value Added per Employee	₹ in thousand	33.21	33.24	54.17	69.00	73.59
15	Return Capital Employed	₹ in crore	11.66	14.63	15.61	14.22	16.46
16	Face Value Per Share	Rupees	1000.00	1000.00	1000.00	1000.00	1000.00
17	Earnings Per Share	Rupees	602.00	805.00	1030.00	1316.00	1028.00

PERFORMANCE AT A GLANCE

Note :

- 1. Net Worth = Paid-up Capital + Reserve & Surplus Accumulated loss & deferred revenue expenditure
- 2. Capital Employed = Net Block + Working Capital
- 3. Gross Margin = Net Profit + Depreciation + Interest + PP Adjustment + Tax Expenses
- 4. Value Added = Gross Margin 10% of Capital Employed



















Annual Report & Accounts 2013-14

DIRECTORS' REPORT

To,

The Shareholders

Gentlemen,

On behalf of the Board of Directors, I have great pleasure in presenting the 39th Annual Report on the working of your Company along with the Accounts for the year ended 31st March, 2014 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., Hindustan Copper Ltd., Neyveli Lignite Corporation Ltd., Jindal Steel & Power Limited, SCCL, DVC, Orissa Mining Corporation, Odisha Power Generation Corporation, Orissa Infrastructure Industrial Development Corporation, Baitarani West Coal Company Limited, etc. were provided mainly through CMPDIL Headquarter. Besides these Consultancy services, CMPDI also handled

specialized assignments of Ministry of Coal. During the Year 2013-14, 36 outside CIL consultancy jobs worth Rs. 23.35 crores from 20 organisations were received by CMPDIL.

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 insitu 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 subsystem 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 ` 19.57 Crores (after deferred tax). The working results of the company are given below :

(₹ in Crore)

Particulars	Year ending 31.03.2014 (Audited) (Rs. in crore)	Year ending 31.03.2013 (Audited) (Rs. in crore)
Total Revenue	652.44	605.21
Less: Total Net Expenditure	618.35	570.25
Profit before P. P. Adjustment & Tax	34.09	34.96
Less: Prior Period Adjustment	(-)0.51	5.19
[Debit (+) / Credit (-)]		
Profit before Taxation	34.60	29.77
Provision for Income Tax:		
Less: For current period	19.15	28.58
Add: For Deferred Tax	(-)6.05	(-)23.86
For earlier years	1.93	0.00
Net Profit after Tax	19.57	25.05

1.3 MANAGEMENT DISCUSSION AND ANALYSIS REPORT

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

1.3.1 Vision of CMPDIL :

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

1.3.2 Mission of CMPDIL:

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 CMPDIL are as follows:

- 1. To provide consultancy support in coal and mineral exploration including geological, geophysical, hydrological and environmental data generation.
- To improve quality of exploration and feasibility reports providing higher level of confidence of geological assessment for optimum mine planning.
- 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 assimilate and disseminate technological information through information networks.
- 7. To undertake formulation of

Environmental Management Plans (EMPs), Environment Impact Assessment (EIA) and Mine Closure Plans for coal mining and related projects.

- 9. 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.
- 10. To provide field and laboratory services to Subsidiary Coal Producing Companies of CIL.
- 11. 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:

- 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, this offers the following services 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.
- Environmental Management Services C. - 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 all major opencast mines in Coal India Ltd., producing more than 5 million cu.m. (Coal+OB) per annum, are being carried out by satellite surveillance on yearly basis.
- d. Management System Services Under offer since 1997, these cover complete range of consultancy and support for creation, implementation, and certification of various standardized management systems, e.g. ISO 9001 Quality Management System and its industry specific translations, ISO 14001 Environmental Management System, OHSAS 18001 occupational health and safety management, and SA 8000 social accountability management.
- 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 Indian economy is the world's tenth largest by GDP (2013) according to estimates made by the International Monetary Fund (IMF) and World Economic Outlook and the third largest economy in terms of purchasing power parity, according to the latest World Bank ranking. Following market based economic reforms in 1991, India became one of the largest growing major economies.

Mining in India is a major economic activity which contributes significantly to the economy of India. Mining and quarrying sector accounts for 2.5% of India's GDP, as estimated by Central Statistical Organization. As a prospering economy, India faces energy security as a growing challenge and the coal production is expected to grow at a CAGR of around 5.8% during XII Plan.

Approximately 40% of the world's electricity needs is being provided by coal. Yes, coal is the second source of primary energy after oil. Since the start of the 21st century, coal production has been the fastest-growing global energy source. It is the second largest source of primary energy in the world after oil, and the largest source of electricity generation. The surge in global coal consumption is driven primarily by developing economies, such as China and India. Growth in emerging market economies (EMEs), which had slowed down, is now picking up. The Reserve Bank of India has projected growth in a range of 5 to 6 percent in 2014-15 against a projected growth of around 4.9 per cent in 2013-14 and 4.5 percent in 2012-13. Coal is the key fuel in the energy mix and since economic growth and energy use are highly correlated, coal demand prospects are bullish in foreseeable future. The XII Plan (2012-17) document of Ministry of Coal (March, 2012) indicates coal demand of 980.50 at a CAGR of 7.09 in terminal year of XII Plan i.e. 2016-17. The indigenous all India coal production projection in 2016-17 is projected to be 795 Mt (615 Mt for CIL) under optimistic scenario. Hence, the demand & indigenous supply gap by 2016-17 is projected to be 185.5 Mt. Also, even with a longer perspective beyond XII Plan period, coal production is not likely to be capped in the country in foreseeable future due to demand restrictions.

Though, on the one hand, the huge demand of coal facilitates for the growth of the coal producers in the country, the role of CIL - the producer of 81% of coal in the country often comes under scrutiny for the coal shortages for the power sector without acknowledging the role played by CIL in enhancement of the coal production of the country from 70 Mt in 80s to about 462 Mt in 2013-14 and the adverse impact of non-removal of the constraints like under-developed infrastructure including poor evacuation logistics of the railways which has been creating problems for transportation of coal to various power plants across the country in spite of considerable pit head stock, non-availability of forestry clearances in time, R&R and law & order problems. Often CIL comes into the domain of criticism even for the non-performance and inefficiencies

of the captive coal producers to whom a considerable coal reserve has been allocated over the years.

The target for detailed drilling for 2014-15 has been substantially enhanced and set at a level of 12.0 lakh meter from the achievement level of 6.97 lakh meter during 2013-14 and finally to 15 lakh in 2015-16 (including departmental drilling capacity of 3.50 & 4.0 lakh in 2014-15 and 2015-16 respectively, considering 54.46 lakh meter of drilling target for the XII Plan period. For building up of drilling capacity, strengthening of CMPDIL with additional manpower (both executive & non-executive) and plant & machinery is being done.

CMPDI, being the consulting subsidiary of CIL - the largest coal producer company in the world, has the mandate to provide exploration, planning & design and other allied services for its rapid expansion. 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.

The coal demand for the year 2013-14 had been assessed at 769.69 Mt by Planning Commission. The Annual Plan 2013-14 of Ministry of Coal had envisaged the total coal production of coal in the country to be about 604.55 Mt and off take/supply of 614.55 Mt. Production target of CIL was 482 Mt against which it could achieve production of 462.53 Mt. Import of coal to the tune of 148 Mt was made during the year to meet the requirement of both coking and non-coking coal.

Furthermore, adopting alternative source of coal based non-renewable energy generation like Coal Bed Methane / Coal Mine Methane, Underground Coal Gasification (UCG) and Coal Liquefaction, etc., is being stressed to meet energy needs to the extent possible. CMPDI is generating CBM related data under Promotional Regional Exploration (PRE) programme of MoC for enlarging CBM resource base. Development of Shale gas has also emerged out as a promising area of operation for CMPDI. CMPDI is rendering services in generation of CBM related data under delineation of blocks, preparation of data dossiers, etc. Data dossiers on shale gas blocks in pursuance to work awarded by DGH were submitted by CMPDI. Further spurt in CMPDI services in the area of non-renewable energy generation consultancy works is being forecast. Additionally, emerging area of Information and Communication Technology (ICT) in coal sector is also presenting additional opportunities for CMPDI and likely to inflate further in coming years.

CMPDI, on behalf of CIL, is proceeding ahead for selection of Developer for commercial development of Underground Coal Gasification(UCG) in two blocks viz. Kaitha Block, CCL and Thesgora'C' Block, WCL within CIL command area and e-tender for the purpose has been floated in January 2014. It will be first of its kind tender for development of UCG on commercial basis in India and will facilitate bringing of a new and high end technology in India.

There has been spurt in the expert services of CMPDI as demanded by MoC recently. CMPDI has been rendering technical assistance to MoC in captive coal block allocation. CMPDI has prepared Project Reports for valuation of Explored Captive Coal blocks identified by Ministry of Coal for Auction through competitive bidding. It also provided consultancy to CIL for preparation of Model Concession Agreement (MCA) for Development and Operation of Coal mines/projects on Public-Private-Partnership (PPP) model.

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:

- Enhancing exploration capacity with addition of manpower, plant & machinery, etc.,
- 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 multidisciplinary 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 50 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 facility, baseline data generation capacity.

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 Coal Demand-Supply gap is likely to widen further 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 detailed drilling capacity of 15 lakh metre (proposed) 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.

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. For drilling services performed by outsourced agencies service charges range from 7.5% to 20%. Environment monitoring jobs were carried out at 90% of Central Pollution Control Board (CPCB) rate. A further increase in the consultancy service charge rate has become difficult due to the cut throat competition from the other players. Under this situation, the above pricing method was continued in the year 2013-14.

1.3.10 MARKETING POLICY

CMPDIL is committed to provide consultancy services in all possible areas as and when demanded by Coal India Limited and its subsidiary companies on priority basis. However CMPDIL is committed to undertake job from outsiders as well considering the importance and strategic values, wherever such outside consultancy jobs can be undertaken.

1.3.11 Outlook and Preparedness of CMPDIL

CMPDI exploration activities had major spurt during the XI Plan period as well as in the 1st year of the XII Plan. Through departmental drills and outsourcing, CMPDI carried out 19.41 lakh meter of drilling during the XI Plan period (2007-12) in comparison to about 10 lakh meter of total drilling carried out during the X Plan period (2002-07). Also, compared to 2.09 lakh metre of drilling carried out in the beginning year of XI Plan, i.e. 2007-08, 5.63 lakh metre of drilling was carried out in 2012-13 and 6.97 lakh metre in 2013-14 through departmental resources and outsourcing. 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 for drilling accessories including mud pumps and trucks had been the key to augment the drilling capacity of CMPDI.

The target for 2014-15 has been substantially increased to 12 lakh metre which is further required to be raised to a level of 15 lakh meter per year by the year 2015-16 (departmental exploration capacity to be raised to a level of 4 lakh meter). This 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 1.5 lakh meters from 2012-13. CMPDI has outsourced 26 coal blocks since 2008 to private agencies through different rounds of national and global tenders. Further 'e-tendering' was introduced for outsourcing of coal blocks for detailed exploration during 2012-13 and work has been successfully awarded for 16 blocks through E-tendering and drilling work has started in 13 blocks.

A total of 126 projects were identified for XII Plan resulting in capacity addition about 446 Mt, against which, project reports for 93 projects, with capacity addition of about 337 Mt have already been formulated. During the year under review, 26 Project Reports have been prepared with capacity addition of about 81 Mt. Balance 33 Project Reports with capacity addition of about 109 Mt will be formulated in subsequent years of XII Plan.

Capacities of most of the laboratories in CMPDI have been upgraded. Chemical and Petrography laboratories have been upgraded with sophisticated imported equipments and the capacities have been enhanced. Environment laboratories have been upgraded at HQ, RI-I and RI-IV and established at RI-V whereas, upgradation of RI-VI Environmental lab is underway. Action for establishment of new environmental lab at RI-VII, Bhubneswar and RI-II, Dhanbad has been taken up. CMPDI is also in the process of enhancing capacity of already existing state of the art CBM lab which has been added with facility of TOC equipment for shale gas potentiality assessment. Rock Eval Pyrolysis equipment required for assessing shale gas prospectivity is under procurement process and is expected to be procured shortly. With the acquisition of this equipment CBM lab will be equipped with technologically driven instruments fulfilling the analytical requirement of Shale gas studies. CMPDI has created the facility for adsorption isotherm test, which is capable of testing adsorption capacity of coal seam upto 20 Mpa pressure (a pressure of about 2000 meter depth). The equipment of this capacity is probably first of this kind in India. The Mining Technology laboratory has been made capable for carrying out the Resin and Cement Capsule tests. One heavy duty Universal Testing Machine (UTM) of 2000 kN capacity has also been procured and installed for determination of physicomechanical properties.

Manpower requirement of Exploration, Planning and Design as well as allied engineering services have been addressed. During 2013-14, 46 MTs have been posted in CMPDI through recruitment and transfer. Similarly, non-executive manpower have been brought from other subsidiaries and process of addition in manpower is going on.

Development of coal based alternate energy sources has become one of the priority area of operation for CMPDI. Coal Mine Methane project has been successfully demonstrated by CMPDI at Moonidih project of BCCL. CMPDI has closely pursued the issue regarding operationalization of CMM with Ministry of Coal and Ministry of Petroleum and Natural Gas and with the constant pursuit of CMPDI, the matter got resolved between the two ministries in Aug.'2012 and has paved the way for taking up commercial development of CMM. CMPDI will take further action after getting a formal order in this regard for which required collateral activities have already been taken up. In addition, steps have been taken for commercial development of UCG in 2 blocks within CIL areas, namely Kaitha (CCL) and Thesgora-C (WCL) and e-tender for the purpose has been floated in January 2014 and tender and the offers will be received up to 17th April 2014. It will be first of its kind tender for development of UCG on commercial basis in India and will facilitate bringing of a new and high end technology in India and tenders were under finalization at CIL level. Foray in the area of Shale Gas development has already been made and the data dossier on prospective Shale Gas blocks in Damodar Valley and Sohagpur Basin have been submitted to DGH.

Satellite surveillance for land reclamation monitoring of opencast projects of CIL is being carried out by CMPDI from the year 2008. 50 nos. of Opencast projects/ mines producing 5 million cubic meter and more (coal+OB) and 113 Opencast mines/ projects producing less than 5 million cubic meter (coal+OB) are monitored annually and at three year interval, respectively. Land reclamation monitoring of 82 nos. of opencast projects of CIL based on high resolution satellite data has been completed during 2013-14. Additionally, Vegetation cover mapping of six coalfields viz. Jharia, Talcher, Bisrampur, Wardha Valley, Kamptee and Makum coalfield based on satellite data have been completed for assessing the regional impact of coal mining on land use / vegetation cover.

Pertaining to the Planning & Design of Coal Handling Plants for various coal mines of CIL and outside agencies, CMPDI has the expertise for preparation of Basic Layout of a CHP having facilities of ROM coal receiving, crushing, storing and rapid loading in to rail wagons for incorporation in the Project Report, preparation of tender document for turn-key execution of CHPs including detailed specifications of various P&M used in the CHP and commercial terms & conditions, tendering, tender evaluation and determination of L-1 bidder for a CHP on turnkey basis, design/drawing scrutiny and author's supervision, etc. Based on e-tendering done by CMPDI for Block-B CHP (3.5 Mty), work has been awarded by NCL in August 2013. E-tenders for Nigahi Ph-II and Khadia Ph-III CHPs have been re-tendered in February 2013 and are under process of finalization.

Environmental services rendered by CMPDI to CIL during 2013-14 included preparation of 40 Environment Management Plans (including 26 Form-I). Environmental Monitoring (air, water and noise) of 301 projects / establishments of CIL were carried out through nine environmental laboratories located at Asansol, Nagpur, Bilaspur, Kusmunda, Hasdeo, Javant, Talcher Ib Valley and Ranchi. In terms of the revised guidelines issued by Ministry of Coal in 2013, CMPDI has prepared 257 nos. of mine closure plans for CIL mines during the year.

RFQ (Request for Qualification) & RFP (Request for Proposal) documents for Development and Operation of Opencast and underground mines/projects through Mine Developer-cum-Operator (MDO) in CIL was prepared. Consultancy was also provided to CIL for preparation of Model Concession Agreement (MCA) for Development and Operation of Coal mines/

projects on Public-Private-Partnership (PPP) model. Classification of coal reserves/ resources for mines/blocks in CIL command area as on 1.4.2013 based on United Nations Framework Classification (UNFC) was done.

Certifications/recertification of 65 units (including 38 newly certified units) was achieved for different management system standards, under the guidance of CMPDI. Certifications for OHSAS 18001 and ISO 17025 were also achieved for the first time for the Environment Lab of CMPDI. Besides these, two subsidiaries of CIL viz. MCL & NCL were certified/recertified for a companywide Integrated Management System (IMS integrating ISO 9001, ISO 14001 & OHSAS 18001). The work of ISO 9001 for Ministry of Coal, Govt. of India and NABH certification consultancy for Gandhinagar Central Hospital, CCL is in progress.

MoU with CSIRO, Australia has been signed in June'13 for joint efforts in mutual interest in mining related fields.

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 2012-2013, CMPDIL has been graded as Excellent (1.11).

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, sustainance of the detailed drilling capacity of 15 lakh metre (proposed) 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.

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 2013-14 is Rs. 652.44 crores as against Rs. 605.21 crores in the previous year, thus registering an increase of 7.80%.

The total expenditure is Rs 618.35 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. 34.60 crores as against Rs. 29.77 crores for the previous year, increased by Rs. 4.83 crores. The profit after tax is Rs. 19.57 crores as against Rs. 25.05 crores for the previous year, decreased by Rs. 5.48 crores.

1.4.0 Financial Overview of CMPDIL

During the year the company made a net profit of Rs. 19.57 Crore (After deferred Tax). The summary of the working results for the last three years is as follows:

Eligibility Criteria		Status of CMPDIL			
		2011-12	2012-13	2013-14	
1.	Profit before Taxes (Rs. in Crore)	30.79	29.77	34.60	
2.	Profit after Taxes (Rs. in Crore)	19.61	25.05	19.57	
3.	Net worth (Rs. in Crore)	110.92	134.89	155.88	
4.	Net profit to net worth (%)	17.68	18.57	12.55	
5.	Turnover (Rs. in Crore)	524.03	605.21	652.44	
6.	Profit before tax to Turnover (%)	5.88	4.92	5.30	

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 as determined by the President of India subject to provisions of the section 314 of the Companies Act.

(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 2014, the Board of Directors of CMPDIL comprises of 8 (Eight) Directors out of which Five are Whole time Directors including the Chairman-cum-Managing Director. Two part-time official Directors and One part-time non-official Directors. The Board is headed by an Executive Chairman Shri Amal Kumar Debnath and only one independent Director. The remaining three independent Director are yet to be appointed by the Ministry of Coal, Govt of India after the cessation of office of the independent Directors appointed three years back .As such the guidelines on Corporate Governance in respect of composition of Board could be followed as soon as the appointment of the independent Directors is intimated by MoC/CIL.

The composition of Directors as on 31st March 2014 is as follows:

I. Whole-Time Directors

a. Chairman-cum-Managing Director

1. Shri Amal Kumar Debnath

b. Functional Directors

- 2. Sri D.K.Ghosh
- 3. Sri R.K.Chopra
- 4. Sri Shekhar Saran
- 5. Sri V.K. Sinha

II. Part-Time Official Directors

- 1. Sri Nagendra Kumar
- 2. Sri Devulapalli Narasimha Prasad

III. Part-Time Non-Official Directors

1. Shri Rakesh Kumar Mittal

(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. Six Board meetings were held during the financial year 2013-14.

SI. No.	Dates	Day	Place
1.	10.05.13	Friday	CMPDIL, Ranchi
2.	27.07.13	Saturday	CMPDIL Ranchi
3.	04.09.13	Wednesday	CMPDIL Ranchi
4.	26.10.13	Saturday	CMPDIL Ranchi
5.	19.12.13	Thursday	New Delhi
6.	06.02.14	Thursday	CMPDIL Ranchi

(D) Attendance of each Director at the Board Meetings

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

SI.	Directors	No. of	No. of	Attended	No. of	No. of
No.		Board	Board	at the	Directorship	Directorship
		Meetings	Meetings	last	/ Chairmanship	/ Chairmanship
		held during	attended	AGM	in other	in Board
		their tenure			Boards on	Committees
					31.03.2014	(CMPDIL)
						on 31.03.2014
	Functional Directors					
1.	Shri Amal Kumar Debnath	6	6	Yes	2	0
2.	Shri B.N. Basu	6	1	No	0	0
3.	Shri D.K. Ghosh	6	6	Yes	0	1
4.	Shri R.K.Chopra	6	6	Yes	0	1
5.	Shri Shekhar Saran	6	3	Yes	0	0
6.	Shri V.K Sinha	6	1	No	0	0
	Part-time official Directors					
7.	Shri D. N. Prasad	6	6	No	1	1
8.	Shri Nagendra Kumar	6	2	No	4	1
	Part-time Non-official					
	Directors					
9.	Prof. Vedala Rama Sastry	6	3	No		
10.	Shri Pramod Kumar Misra	6	5	Yes		
11.	Dr. Mukesh Khare	6	3	No		
12.	Prof. P.K.J. Mohapatra	6	3	No		
13.	Shri Rakesh Kumar Mittal	6	1	No	0	1

Shri B.N. Basu ceased to be the Director w.e.f 31.05.2013, Shri Shekhar Saran joined the board w.e.f 01.06.2013, Shri V.K. Sinha joined the board w.e.f. 08.01.2014, Prof. Vedala Rama Sastry ceased to be the Director w.e.f 23.12.2013, Shri Pramod Kumar Misra ceased to be the Director w.e.f 23.12.2013, Dr Mukesh Khare ceased to be the Director w.e.f 23.12.2013, Prof. P.K.J. Mohapatra ceased to be the Director w.e.f 23.12.2013, Shri Rakesh Kumar Mittal joined the Board w.e.f 01.11.2013. Sri D.N. Prasad, Sri R.K. Chopra and Sri N. Kumar are members of the Audit committee of CMPDIL. Sri R.K. Mittal is the Chairman of the Audit Committee of CMPDIL.

(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 CSR & Sustainability Committee.
- Award of large contracts / Agreements
- Disclosure of interest by Directors about Directorship and position occupied by them in other companies.
- Any Other materially important information.

(F). Brief Resume of the Directors:

Shri Amal Kumar Debnath, (58) is currently Chairman cum Managing Director of Central Mine Planning and Design Institute (CMPDI), a wholly owned subsidiary of the Holding company Coal India Limited (CIL), which is the largest hard coal producing company in the World.

Shri Debnath, graduated in Mining Engineering (in 1976) from Indian School of Mines (ISM), Dhanbad, India. He obtained First Class Mine Manager's Certificate of Competency (Coal) from DGMS, Dhanbad. He has working experience of over three & half decades in coal mining sector, wherein, he served in various capacities in production and planning and management in Central Coalfields Limited (CCL) and Central Mine Planning and Design Institute Ltd. (CMPDI). He also served as the Regional Director of Regional Institute-V, CMPDI providing full exploration and planning support to South Eastern Coalfield Ltd. (SECL). Shri Debnath, worked in the capacity of Director (Technical / P&D), CMPDI, Ranchi and looked after the various activities of Environment, Underground Mine Planning & Design, Project Appraisal Division, Quality Management System and Opencast Divisions.

He has been responsible for preparation of Project Reports, Environmental Impact Assessment (EIA)/Environmental Management Plan (EMP), Operational Plan and other specialised reports for mines of CIL as well as outside clients. Project Report for Kusmunda OCP for a total capacity of 50 Mty was prepared under his guidance which is the largest mine planned in India till date. He has been instrumental in selection of sites & preparation of Global Bids for application of Highwall Mining, mass production technology such as Continuous Miner, Shortwall, Low Capacity Continuous Miner, etc. He has acted as Chairman of various Tender Committees for technical and commercial evaluation as well as award of work for turn-key execution of Coal Handling Plants and other projects. Major consultancy works in metal mining sector for Manganese Ore (India) Ltd., Hindustan Copper Ltd., Hutti Gold Mines Co. Ltd., etc. have also been taken up under his leadership. He is the member of Mining, Geological & Metallurgical Institute of India (MGMI).

Shri A.K. Debnath has a large number of technical papers presented in National and International Conferences/ Symposia/Seminars. He has traveled widely to many countries like USA, UK, China, Germany, Sweden, South Africa, Australia, Poland, Turkey, etc. He is a Board member in Indian School of Mines, Dhanbad and a permanent invitee in the Board of Coal India Limited.

Sri Dilip Kumar Ghosh (59), a Graduate in Mining Engineering, is presently working as a Director (Technical) in CMPDIL. Prior to his joining at CMPDIL, he was in Western Coalfields Ltd., and South Eastern Coalfields Ltd., subsidiaries of Coal India Limited, working in different capacities. Shri Ghosh to his credit made many special achievements. He was awarded as "Best Manager" in the year 1993-94 in PK-II Mine of Pathakhera Area, WCL. During his tenure, in the year 2005-06 Pathakhera Area, consisting of nine UG mines, was declared as "Best UG Area of WCL" which had produced highest ever coal production i.e. 33.11 lakh tones during the year 2006-07 and LHD productivity of the Area was also the highest in WCL i.e. 189 TPD. Thereafter, he assumed the charge of Baikunthpur Area, SECL, consisting only underground mines with similar mechanization. This Area also registered growth on all counts every year during his tenure. Churcha East & West were amalgamated in the year 2009 and converted to a Mega Underground project of 2 MTY capacities which was inaugurated by the Hon'ble minister of Coal in November 2009.

Two sets of Continuous Miners are being introduced in this Project. For the year 2008-09 the Area was adjudged best Underground Area in its group. In 2009-10 on half yearly basis again this Area was adjudged best UG Area in its group. At the end of the year of 2009-10 Dipka Area, a Mega OC project of 25 Million tones per annum capacity produced 24 million tones of coal with a growth of 2 million tones. Surface miner technology was introduced with hiring of equipment for a capacity of 45000 Tonne per day. Large HEMM package of 42 Cub. Mtr. Shovel and 240T Dumper was commissioned in the month of June, 2010. Dipka Area was given award for the performance of 2009-10 for highest productivity. After joining Chirimiri Area, action was taken by Sri Ghosh for re-opening of the two mines which were sealed off earlier due to fire, for nitrogen flushing with foaming agent in the sealed off mines.

Mr. Rajesh Kumar Chopra (59), Director (Technical /P&D), CMPDI is a graduate in Mining Engineering (1977) from Banaras Hindu University (BHU). Started his career with Tata Iron & Steel Co. Ltd. in 1977, he joined CIL / CMPDIL in 1982. He was nominated for one year training in Germany in advance coal mining methods. During his service of CMPDI for over 20 years he undertook Planning of several large and mega mining projects of CCL, SECL and NCL. He was also placed in the Ministry of Coal, New Delhi as GM/ CGM (Mining) where he made his contribution in subjects like coal research & conservation, clean coal technologies, coal bed methane,
gasification, CTL, coal exploration, coal project monitoring & appraisal, policies, guidelines etc. He has visited many countries and has been part of the delegations representing India, and presented many papers in national and international forums. Presently he is Director (Technical), CMPDIL, looking after Planning and Design of Opencast and Underground projects.

Shri Shekhar Saran (52), is an engineering graduate (1981 batch) from the Deptt. of Mining Engineering, Institute of technology, Banaras Hindu University (BHU) and has joined CMPDI, Ranchi as Director (Technical) on 1st June 2013. Being the topper of his batch he is the recipient of BHU Gold Medal as well as Roberton Medal from MGMI.

Prior to joining CMPDI, he worked at Sohagpur, Hasdeo and Bisrampur 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 ECL HQ 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 has presented number of technical papers in different seminars/ workshops. He had also been a rescue trained member for more than 26 years and has attended a number of rescue and recovery operations in underground mines.

During his service he has visited a number of foreign countries like U.K

,Germany, France, Netherlands & USA etc. He is an NCC Certificate holder & good sportsman.

Presently (since 01.06.2013) he is working as Director (Technical) CMPDI, looking after Coal Resource Development.

Shri Vinod Kumar Sinha, Director (Technical/ Research, Development & Technology), CMPDI, aged 56 years (02.07.1957) 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 the consumers.

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.

Nagendra Kumar (56) has Shri Mining Engineering graduated in (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 ICVL,BCCL and in CMPDI. Besides, he has also assumed the charge of CMD (Additional Charge) of SECL with effect from 01.11.2012

Shri D.N. Prasad (57), 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 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.

Mr. Rakesh K. Mittal 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 extra curricular 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 Medial 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 like minded friends. Today this mission has expanded widely with more than 2200 life members spread over 35 centres 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 wishdom'. 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.

Sri 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).

1.5.3 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.

Terms of reference:

The terms of reference of the Audit Committee are in accordance with Section 292A of the Companies Act, 1956 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 visà-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.

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 (Clause 2AA of Section 217 of the Companies Act, 1956).
- b) Changes, if any, in accounting policies and practices and reasons for the same;
- Major accounting entries involving estimates based on the exercise of judgment by management;
- d) Significant adjustments made in the financial statement arising out of audit findings;
- e) Compliance with legal requirements (applicable laws, regulation and Company policies) relating to financial statements;
- f) Disclosure of any related party transactions; and
- g) Qualifications in the draft audit report.
- 5. Reviewing with the management, the quarterly financial statements before submission to the Board for approval.
- 6. Reviewing with the management, performance of internal auditors and adequacy of the internal control systems.
- 7. Reviewing the adequacy of internal audit function, if any including the structure of the internal audit department, staffing and seniority of the official heading the department, reporting structure coverage and frequency of internal audit.

- 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.
- 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.
- 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.

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.

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

Composition:

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

1.	Chairman	Sri Pramod Kumar Misra	Non-official part-time Director	Ceased to be director on 23.12.2013
2.	Member	Dr. V. R. Sastry	Non-official part-time Director	Ceased to be director on 23.12.2013
3.	Member	Prof. PKJ Mohapatra	Non-official part-time Director	Ceased to be director on 23.12.2013
4.	Member	Prof. Mukesh Khare	Non-official part-time Director	Ceased to be director on 23.12.2013
5.	Chairman	Sri R.K. Mittal	Non-official part-time Director	Assumed Chairmanship on 06.02.2014
6.	Member	Sri D. N. Prasad	Govt. Nominee Director, MOC	-
7.	Member	Sri N. Kumar	Director (Technical), CIL	-
8.	Member	Sri R.K. Chopra	Director (Technical), CMPDIL	-

The Audit Committee is headed by an independent Director Sri R. K. Mittal and the other three members are from Ministry of Coal, Coal India Limited and CMPDIL, as the remaining three independent Director are yet to be appointed by the Ministry of Coal, Govt. of India after the cessation of office of the independent Directors appointed three years back .The guidelines on Corporate Governance in respect of Audit Committee could be followed as soon as the appointment of the independent Directors is intimated by MoC/CIL.

Meeting and Attendance :

Four meetings were held during the financial year 2013-14 on 10.05.2013, 27.7.2013, 26.10.2013 and 06.02.2014 respectively. The details of the audit committee meetings attended by members are as under:

Members of Audit Committee	Status	Meetings held	Meetings attended
Shri Pramod Kumar Misra	Chairman	4	3
Dr. V. R. Sastry	Member	4	2
Prof. P. K. J. Mohapatra	Member	4	2
Prof. Mukesh Khare	Member	4	2
Shri D. N. Prasad	Member	4	3
Shri N. Kumar	Member	4	-
Shri R.K. Chopra	Member	4	4
Shri R. K. Mittal (From 1.11.2013)	Chairman	4	1

1.5.4 Remuneration Committee:

CMPDI, being a Central Public Sector Enterprise, the appointment, tenure and remuneration of Directors are fixed by the President of India.

The decisions relating to remunerations in respect of annual bonus/variable pay pool and the policy for its distributions across the executives and non unionized supervisors in line with the prescribed limits are made by Coal India Limited, the holding company, which has constituted the remuneration committee.

The company being the subsidiary of Coal India Limited, the remuneration of the executives and non unionized supervisors are regulated as per the directions of the holding company, Coal India Limited and Government of India.

Hence, the Board does not decide the remuneration and no remuneration committee is constituted. However, if any requirement arises, the Board shall discharge such functions of the remuneration committee or constitute remuneration committee.

1.5.5 CSR & Sustainability 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 partners ,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 Managivng 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 & Sustainability Committee consists of following members and is headed by a non-official part-time Director (Independent Director):

1.	Chairman	Dr. Mukesh Khare (Upto 23.12.2013)	Non-official part-time Director
2.	Chairman	Shri R.K. Mittal (Assumed Chairmanship on 06.02.2014)	Non-official part-time Director
3.	Member	Shri D. K. Ghosh	Director (Technical / ES)
4.	Member	Shri R. K. Chopra	Director (Technical /RD&T)

Meeting and Attendance:

Four meetings were held during the financial year 2013-14 on 10.05.2013, 06.12.2013, 06.02.2014 and 26.03.2014. The details of the Sustainable Development Committee meetings attended by members are as under:

Members of CSR & Sustainability committee	Status	Meetings held	Meetings attended
Dr.Mukesh Khare (Upto 23.12.2013)	Chairman	4	2
Shri R.K. Mittal (Assumed Chairmanship on 06.02.2014)	Chairman	4	2
Shri D. K. Ghosh	Member	4	4
Shri R. K. Chopra	Member	4	4

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 ₹)

Name Designatio		Gross Salary and Allowances Including Leave encashment	Perks	HRA	CMPF Employer's Contribution	PRP Advance	TOTAL	LTC & Medical expenses
Sri A. K. Debnath	CMD	2000621.20	430228.00	0.00	239520.00	0.00	2670369.20	39078.00
Sri Shekhar Saran	Director (Tech)	1661450.00	326250.00	0.00	198954.00	0.00	2186654.00	34993.00
Sri B.N. Basu	Director (Tech)	261910.00	67936.00	0.00	31336.00	0.00	361182.00	227698.00
Sri D.K. Ghosh	Director (Tech)	1777845.00	391500.00	0.00	212787.00	0.00	2382132.00	78189.00
Sri R.K. Chopra	Director (Tech)	1691901.00	403191.00	0.00	202474.00	0.00	2297566.00	19835.00

(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, 1956. The details of the sitting fees paid to the Part-Time Non-Official Directors are given as under :

SI. No.	Name	Sitting Fees	paid for attending	Total (Rs.)
		Board Meeting (Rs.)	Committee Meeting (Rs.)	
1	Sri Pramod Kumar Misra	75,000.00	45,000.00	1,20,000.00
2	Dr. V. R. Sastry	45,000.00	30,000.00	75,000.00
3	Prof. P. K. J. Mohapatra	45,000.00	30,000.00	75,000.00
4	Prof. Mukesh Khare	45,000.00	60,000.00	1,05,000.00
5.	Shri R. K. Mittal	15,000.00	45,000.00	60,000.00

1.5.7 (i) Annual General Meetings :-

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

Details	2010-2011 36th AGM	2011-2012 37th AGM	2012-2013 38th AGM
Date	26.05.2011	21.05.2012	22.05.2013
Time	10.30 A. M.	10.30 A. M.	10.30 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) Independent Directors Meeting:

A meeting was held by Independent Directors on 09.05.2013 at Ranchi as per the guidelines issued by the MoC.

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 2014 that may have potential conflict of interest of the company at the large.

 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. Committee. Audit Disclosures. Reports. Code of Conduct etc. are complied with. However, the Guidelines like Remuneration Committee, Subsidiary Companies, Training Policy etc. are not considered for compliance as they are not applicable to CMPDIL, being a subsidiary of Coal India Limited. A certificate from the Company Auditor who is in whole-time practice with regard to compliance of conditions of Corporate Governance is annexed to this report.

• Integrity Pact

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 2013-14 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 have affirmed compliance with the provisions of the Company's Code of Conduct for the financial year ended 31st March 2014.

• 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.

Presidential Directives :

No Presidential Directives was issued by the Central Government to CMPDI during the financial year 2013-14.

• Annual Return :

Annual Return is regularly filed with ROC.

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", Mine Tech and publications in the Leading English Newspaper and also in local dailies.

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

1.5.10 Audit Qualification

It is always the Company's endeavour to present unqualified financial statement.

Management reply to the Statutory Auditors' observations on the Accounts of the Company for the year ended 31st March 2014 are furnished as Annexure to the Directors' Report. Comments of the Comptroller & Auditor General of India under Section 619(4) of the then Companies Act, 1956, on the Accounts of the Company, for the Financial Year ended 31st March 2014 is also enclosed.

1.5.11 Training of Board Members

The Board of Directors are 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 parttime 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 the company. 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.

1.5.13 Risk Management Plan

As a part of strategic business policy, due importance is given to the process of risk identification, assessment and mitigation control in different functional areas of the organization. Inherent risk due to external and internal factors is assessed and necessary mitigation control measures are taken through policies and system to manage risk effectively. The risk management scheme of CMPDIL 2011 was approved by the Board in its 164th meeting held on 13.01.2012 and this Scheme is in operation in CMPDIL. The Risk Management Plan is also uploaded in the intranet website of CMPDIL.

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 the companies Act, the key managerial personnel are:

Shri Amal Kumar Debnath - CEO Shri D.K. Ghosh - Whole time Director Shri R.K. Chopra - Whole time Director Shri S. Saran - Whole time Director Shri V.K. Sinha - Whole time Director Shri P. Lazar - Company Secretary Shri A.K. Soni - CFO

1.6.0 CSR and Sustainable Development 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 underprivileged sections of the society.

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-today 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 has initiated its CSR & Sustainability activities during 2013-14 in the Areas like Infrastructural Support, Education,Skill /Social Development / Women Empowerment, Installation of Waste Paper Recycling Plant, Construction of Rain water Harvesting System, Energy conservation by replacing conventional lights by LED lights etc.

PART : B

ANNUAL PERFORMANCE OVERVIEW

1.0 Geological Exploration & Drilling

- **1.0.1** CMPDI continued to carry out coal exploration activities in 2013-14 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 and 6.97 lakh meter in 2013-14 (24% Growth) through departmental resources and outsourcing. For capacity expansion through modernization of departmental drills. 39 new Mechanical drills & 4 Hi-Tech Hydrostatic drills have been procured since 2008-09, out of which 10 have been deployed as additional drills and 33 as replacement drills. CMPDI has also replaced 38 mud pumps and 74 trucks in last six years.

To meet the increased work load, recruitment has been taken up through campus interview / open examination. 201 Geologists, 26 Geophysicists and 20 Mechanical Engineers for Drilling have joined CMPDI since 2008-09. About 343 non-executive staffs have also been inducted for exploration work. Out of it 25 Geologists, 2 Geo-physicsts, 5 Mechanical Engineers and 11 nonexecutives have resigned.

- **1.0.3** Under outsourcing, the work of 40 blocks involving 14.78 lakh metre of drilling was awarded through tendering since 2008-09, out of which drilling has been concluded in 18 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 was stopped in 7 blocks. Due to lack of forest clearance and adverse law & order, about 2.14 lakh metre of drilling could not be carried out in outsourced blocks in 2013-14. In 2013-14, a total of 3.71 lakh metre (30% Growth) has been drilled through outsourcing, out of which 1.95 lakh metre through tendering & 1.71 lakh metre through MoU with MECL.
- **1.0.4** To fulfill the enhanced requirement of coal core analysis due to increase in drilling, the capacity expansion of CMPDI & CIMFR labs has been taken up. A MoU between CMPDI (on behalf of Coal India Ltd.) and CSIR has been signed for capacity enhancement. The work is under progress.

1.1 Drilling Performance in 2013-14:

1.1.1 CMPDI deployed its departmental resources for 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 120 to 140 drills were deployed in 2013-14 out of which 57 were departmental drills. Apart from it, CMPDI continued the technical supervision of Promotional Exploration work undertaken by MECL in Coal Sector (CIL & SCCL areas) in 9 blocks and monitored work of GSI in 11 blocks for Promotional Exploration in Coal Sector on behalf of MoC.

1.1.2 In 2013-14, CMPDI and its contractual agencies took up exploratory drilling in 100 blocks/mines of 22 coalfields situated in 5 States. These coalfields are Raniganj (6 blocks/mines), Barjora (1), Brahmani (1), Rajmahal (3), Jharia (3 blocks/mines), W.Bokaro (2), Ramgarh (2), South Karanpura (5), North Karanpura (7), Kamptee (8), Nand-Bander (2), Wardha Valley(5), Sohagpur (11), Mand Raigarh (11), Korba (6), Bisrampur (2), Sonhat (1), Tatapani-Ramkola- (4), Singrauli (4), Talcher (10) and Ib Valley (6) .Out of 100 blocks/mines, 26 were Non-CIL/Captive blocks and 74 CIL blocks/mines. Departmental drills

of CMPDI took up exploratory drilling in 53 blocks/mines whereas contractual agencies drilled in 47 blocks/mines.

1.1.3 Under Promotional (Regional) Exploration Programme, MECL has undertaken Promotional drilling in 9 coal blocks (Mand Raigarh - 3, Bishrampur - 2, Singraulli - 2, & Godavari Valley - 2), GSI has undertaken 11 blocks for Promotional drilling (Raniganj -2, Talcher - 2, Ib Valley - 2, Sohagpur - 3 & Tatapani Ramakola -2). DGM(Nagaland) & DGM(Assam) has also undertaken 1 block each for Promotion drilling i.e. Northern Khar & Karbianglong, respectively in Coal Sector.

Agency	Target 2013-14 (metre)	Performance of	Exploratory Drilli	ng in 2013-14	Achieved Prev.	Growth %
		Achieved (metre)	Achieved (%)	+/- (m)	Year: 2012-13 (m)	
	A. De	etailed Drilling Und	lertaken by CMPD	1:		
I. Departmental	285000	325362	114%	40362	276199	18%
II. OUTSOURCING	• •	· · · · · · · · · · · · · · · · · · ·				
State Govts.	9000	5943	66%	-3057	7398	-20%
MECL (MOU)	185000	171006	92%	-13994	138761	23%
Tendering (CIL blocks)	242000	156359	65%	-85641	90779	72%
Tendering (non-CILblocks)	179000	38171	21%	-140829	49772	-23%
Total Outsourcing	615000	371479	60%	-243521	286709	30%
Grand Total A	900000	696841 *	77%	-203159	562908	24%
B. P	romotional Drilling by N	IECL, GSI, DGM(Na	agaland) & DGM(A	ssam): I. COAL	SECTOR	
GSI	14500	15589	108%	1089	14702	6%
MECL	69500	46753	67%	-22747	30594	53%
DGM, Nagaland	700	783	112%	83	328	139%
DGM, Assam	300	123	41%	-177	0	123%
CMPDI	4000	0	0%	-4000	0	
Total Coal:	89000	63248	71%	-25752	45624	39%
II. LIGNITE SECTOR						
GSI	12500	7380	59%	-5120	8378	-12%
MECL	51500	61394	119%	9894	59349	3%
Total Lignite:	64000	68,774	107%	4774	67728	2%
Grand Total B	153000	132022	86%	-20978	113352	16%

1.1.4 The overall performance of exploratory drilling in 2013-14 is given below :

* In 2013-14, 4.59 lakh m. has been drilled in CIL blocks and 2.38 lakh m. in Non-CIL blocks

In 2013-14, CMPDI achieved its departmental and overall drilling targets by 114% and 77%, respectively. The performance of departmental drilling was better than previous year with 18% growth and recording average operational drills productivity of 487 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 and CMPDI could not take promotional drilling due to priority in detailed drilling.

1.1.5 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 2013-14, a total of 3.62 lakh metre of drilling was targeted in Non-CIL blocks (departmental: 0.76 lakh metre, outsourcing: 2.86 lakh metre). As against this, a total of 2.38 lakh metre has been achieved, out of which the departmental drills of CMPDI have carried out 0.94 lakh metre of exploratory drilling whereas 1.44 lakh metre 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. CMPDI has also provided copies of existing GRs to prospective entrepreneurs of Captive Mining to enable them in selection of suitable blocks for their end use. After the process of allotment is over, original Geological Report is provided to allottee on payment of total cost of exploration.

1.2 Hydro-geology

- **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 32 mining projects/mines/cluster of mines in ECL, BCCL, CCL, MCL, WCL and SECL were completed during 2013-14.
- **1.2.2** CMPDI is also carrying out groundwater monitoring of MOEF cleared projects (65 nos. of mines) in WCL area. 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** Hydro-geological notes on ground water condition of 13 projects of WCL, 8 projects of MCL, 9 projects of SECL and 1 project of CCL projects as part of PR, GR and Mine closure etc. have also been completed during this period. Hydro-geological studies for mine water inflow estimation in 3 projects of WCL were completed.
- **1.2.4** Hydro-geological studies in 4 projects of WCL and SECL have been carried out for water supply arrangement to mines, colony and villages.
- **1.2.5** Planning and Design of Piezometers for MoEF cleared projects of SECL (4 Reports) and CCL (1 Report) have been provided for monitoring of both water table aquifer and confined aquifer.
- **1.2.6** Hydro-geological investigations for disposal of ash in Jagannath OC mine void and South Balanda OC mine void for NTPC are in progress.

1.3 Geological Reports:

1.3.1 In 2013-14, a total of 15 Geological Reports were prepared on the basis of detailed exploration conducted in previous years. In addition to this 8 Revised Geological

Reports were prepared. The prepared Geological Reports have brought about 2.5 Billion Tonnes of additional coal resources under 'Proved' category.

1.3.2 Under Promotional Exploration Programme, GSI and MECL have submitted 4 Geological Reports on coal blocks, estimating about 1.77 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 2013-14, a total of 193004 depth meter of geophysical logging has been carried out for this purpose in CIL and Non-CIL project with multi-parametric geophysical logging equipments. Out of this, 51916 depth meter of logging was done by 5 no. of departmental geophysical logging units and 141087 m of logging was done 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 251 line km of Resistivity profiling, 130 no. of Vertical Electrical Sounding (VES) and 3717 no. of stations of Magnetic survey have been carried out in 2013-14 for such purpose. With 48 -Channel signal enhancement Seismograph a total of 49 line kms of High Resolution Shallow Seismic (HRSS) survey has been carried out in Phuljhari East & West blocks of Talcher CF (MCL) and in the Southern Part of Hardi and part of Renki block of Korba CF (SECL) in Promotional Area.
- **1.4.3 Reports:** A total of 13 Geophysical reports have been submitted during the year 2013-

14. It includes 5 reports on geophysical logging, 1 on resistivity survey, 1 on magnetic survey and 1 on HRSS survey and 5 on ground water study.

1.5 Geosystem:

1.5.1 In the Government funded project "Integrated Coal Resources Information System (ICRIS), Geological Modelling of zones has been taken up during XII plan and during 2013-14, 50 such zones models has been completed by different data centers, out of which 28 zone models have been uploaded on ICRIS website. ACAD, SQL servers softwares and window version of FORTAN softwares have been procured. Procurement action has also been initiated for new hardware in 2013-14 to replace earlier hardware.

1.5.2 CEMPGEODOC & SASLINT :

- A window based version of existing in-house developed CEMPGEODOC software for the analysis, interpretation & graphical representation of Geological data has been developed and is being tested.
- SASLINT software was modified to generate graphic log from geophysical data.

1.6 COAL BED METHANE (CBM) / COAL MINE METHANE (CMM) FOR THE YEAR 2013-14

1.6.1 Collaborative development of CBM prospects in Jharia & Raniganj coalfields by the consortium of CIL & ONGC

In terms of Govt. of India CBM Policy, consortium of CIL and ONGC has been allotted 2 blocks, one each in Jharia and Raniganj coalfields for commercial development of coalbed methane. These projects are being implemented by CMPDI on behalf of CIL.

1.6.1.1 Jharia CBM Block

The Govt. of Jharkhand granted Petroleum Exploration License (PEL) to the consortium of CIL-ONGC in August 2003 for Jharia CBM block after which the work as detailed in the Minimum Work Programme was taken up.

CMPDI has carried out deep slimhole drilling (depth range 1000 to 1400m) wherein, CBM related parametric data were generated. A report based on this drilling and other available drilling and gas related data has been prepared by CMPDI and submitted to ONGC which facilitated ONGC to drill exploratory and pilot wells.

Consequent to the completion of envisaged work in the exploratory and pilot phases, consortium of CIL & ONGC has submitted a development plan of the block having a budgetary outlay of Rs. 1137 Crores for the approval of Government. The development plan was deliberated in the Steering committee meeting and government approval has been accorded vide letter no. DGH/CBM/MoPN&G/ONGC/2013 dated 2nd July, 2013.

Further, CIL has conveyed ONGC about its intention of increasing its Participating Interest (PI) from existing 10% to 26% from Development Phase onwards for this block in pursuance to the decision of CIL Board. The matter regarding operationalisation issues and future course of action was deliberated in the meeting of CIL Board wherein it was observed that there is lack of transparency from ONGC for sharing information and the Board directed that CIL to withdraw from Joint Operation.

1.6.1.2 Raniganj CBM Block

The Govt. of West Bengal granted Petroleum Exploration License (PEL) for Raniganj CBM block in April 2004 after which the work as detailed in the Minimum Work Programme was taken up. CMPDI has carried out deep slimhole drilling (depth range 800 to 1100m) wherein, CBM related parametric data were generated. A report based on this drilling and other available drilling and gas related data has been prepared by CMPDI and submitted to ONGC which facilitated ONGC to drill exploratory and pilot wells.

Consequent to the completion of envisaged work in the exploratory and pilot phases, consortium of CIL & ONGC has submitted a development plan of the block having a budgetary outlay of Rs. 957 Crores for the approval of Government. The development plan was deliberated in the Steering committee meeting and government approval has been accorded vide letter no. DGH/CBM/MoPN&G/ONGC/2013 dated 2nd July, 2013.

Further, CIL has conveyed ONGC about its intention of retaining 26% Participating Interest (PI) in this block from Development phase onward in pursuance to the decision of CIL Board. The matter regarding operationalisation issues and future course of action was deliberated in the meeting of CIL Board wherein it was observed that there is lack of transparency from ONGC for sharing information and the Board directed that CIL to withdraw from Joint Operation.

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

1.6.2.1 CBM related studies:

CMPDI is carrying out studies related to "Assessment of Coalbed Methane Gasin-Place Resource of Indian Coalfields/ Lignite fields" through bore-holes being drilled under promotional exploration (XII Plan period) under PRE funding of Ministry of Coal. This study will enlarge the CBM resource base of the country and facilitate delineation of more blocks for CBM development. A total of 60 boreholes (40 by CMPDI and 20 by GSI) are to be taken up for studies during the XII Plan Period with a total plan expenditure of Rs. 13.46 crore.

During 2013-14, studies/tests in 8 boreholes located in different coal/lignite fields have been done.

Following three reports based on CBM related studies have been submitted during the year:

- a) "Assessment of CBM Gas-in-Place Resource in Saktigarh block", Pathakhera Coalfield,
- b) "Assessment of CBM Gas-in-Place Resource in Nachchiyarkudi block", Mannargudi Lignitefield (TN),
- c) "Assessment of CBM Gas-in-Place Resource in Banai block", Mand-Raigarh Coalfield.

Total fourteen reports have been submitted since April, 2007.

1.6.2.2 Shale gas related studies:

CMPDI is carrying out studies related to "Assessment of Shale Gas-in-Place Resource of Indian Coalfields/Lignite fields" through boreholes being drilled under promotional exploration (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. A total of 25 boreholes are to be taken up for studies during the XII Plan Period with a total plan expenditure of Rs.7.75 crore.

During 2013-14, a total of 6 boreholes were taken up for shale gas related studies.

1.6.3 Commercial development of Coal Mine Methane (CMM)

Commercial development of CMM is a priority area both at the Govt. and Coal Industry level. Successful implementation of the Demonstration Project at Moonidih mine of BCCL has already proved the efficacy of the process and five suitable areas within CIL mining leasehold areas were identified. Further, MoC has made CMPDI the Nodal Agency for development of CMM in India.

Under the aforesaid background, actions for commercial development were initiated and on behalf of CIL/concerned Coal Company consent, CMPDI had floated Global Tender for selection of suitable Developer for commercial development of CMM in 5 identified blocks (3 in BCCL and 2 in CCL) in April 2011 which could not be proceeded further in view of certain issues regarding mechanism of operationalization were raised by MoP&NG. To resolve the issues the matter was deliberated at competent level of MoC and MoP&NG and it was resolved in a meeting held between Advisor, MoC and Secretary, MoP&NG on 17th August, 2012.

Further, reportedly CCEA has granted its approval in December, 2013 allowing CIL to explore and exploit CMM from its coal mining areas. A formal communication in this regard is awaited after which further activities will be taken by CMPDI/CIL for development and exploitation of CMM.

1.6.4 CMM/CBM Clearinghouse in India

A CMM/CBM clearinghouse was established at CMPDI, Ranchi under the aegis of Ministry of Coal and US EPA on 17th Nov'08. 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 the initial 3 year term completed in Nov.'2011, USEPA grant had been extended for additional three years on the approval of Ministry of Coal.

Under the aegis of India CMM/CBM Clearing House and International workshop on "Development of Coal based Nonconventional Energy Resources in India" has been organized on 12th - 13th November, 2013 at CMPDI, Ranchi. It was well attended by the International dignitaries, International experts, high level Government functionary from Ministry of Coal, Ministry of Petroleum & Natural Gas, captains of the coal industries, CBM operators, representative of technical and research institutions.

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

CMPDI has invited on-line bids on 20th January'14 for the e-Tendering portal https:// coalindiatenders.gov.in for Selection of "Developer for Commercial Development of Underground Coal Gasification (UCG)" in Kaitha Block of Central Coalfields Limited (CCL) and Thesgora "C" Block of Western Coalfields Limited (WCL). Five firms participated in the pre bid meeting held on 3rd Feb'14. The due date for submission of offer has been extended from 10th March'2014 to 17th April, 2014.

1.6.6.0 Outside Consultancy Work (DGH Job)

1.6.6.1 Preparation of Data Dossiers for CBM Round V

DGH had awarded the consultancy work of delineation and preparation of Data Dossiers on prospective CBM blocks in Cambay basin, Singrauli and Johilla Coalfields for forthcoming CBM Round to CMPDI in May 2011. Final Data Dossiers on identified 8 blocks were submitted to DGH.

1.6.6.2 Delineation and preparation of Datadossiers for six prospective Shale gas blocks within Gondwana Basin

DGH has assigned the consultancy work of delineation and preparation of Data Dossiers for six prospective Shale Gas blocks within Gondwana Basin to CMPDI in May, 2011. Final Data Dossiers on Raniganj, Jharia, Bokaro, South Karanpura, North Karanpura and Sohagpur basins were submitted to DGH.

1.6.7 R&D and S&T Projects

1.6.7.1 CIL R&D Project "Assessment of prospect of shale gas in Gondwana basin with specific reference to CIL areas"

Work on CIL R&D project "Assessment of prospects of shale gas in Gondwana basin with special reference to CIL areas" is in progress. Areas have been demarcated for assessing the prospectivity of Shale gas within BCCL and CCL areas and collection of shale samples for qualitative analysis has been done and generation of suite of parametric data for assessment of Shale gas potentiality in identified areas of BCCL & CCL command areas have been completed. Facility for taking up Total Organic Carbon (TOC) Analysis has been created in the CMPDI lab and procurement of "Rock Eval Analyszer" has been finalized and supply order has been issued to M/s Vinci

Technologies of France under this project. Sub-implementing agency ARI (USA) has submitted the report on creation of type well and simulation for assessment of Shale gas potentiality in delineated areas. Finalization of report is in progress.

1.6.7.2 CIL R&D project titled "Studies on shrinkage swelling characteristics of some Indian coals to ascertain recoverability of CBM from deep seated coal resources".

> CIL R&D project titled "Studies on shrinkage swelling characteristics of some Indian coals to ascertain recoverability of CBM from deep seated coal resources" work is in progress. Design and fabrication of the instrument is under progress at IIT Kharagpur. Design of Sample Cell and Experimental Cell completed as per MoU commitment and report submitted on 27th January, 2014 as per schedule. Procurement of High Pressure fittings and testing of instrument is under progress at IIT Karagpur.

1.6.7.3 S&T Project on "Shale gas potentiality evaluation of Damodar basin of India

A S & T project regarding "Shale gas potentiality of Damodar basin of India" at an investment of Rs.16.87 crore under S&T plan of Ministry of Coal (MoC) vide letter no. 34012/3/2012-CRC-1, dated 30th Oct, 2012 and 12th Dec, 2012 is under implementation with the objective to evaluate Damodar basin for their shale gas potentiality through integrated geophysical, geological, geochemical and petro-physical investigations are in progress as per schedule. The instrument "Automatic Porosimeter cum Permeameter" is under procurement.

1.6.7.4 S & T Project on "CBM reserve estimation for Indian coalfields"

A S & T project regarding "CBM Reserve estimation for Indian coalfields" at a cost

of Rs.2069.91 Lakhs has been approved under Eol 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. Action has been initiated as per the approved project proposal.

1.6.7.5 EU funded Research Project

CMPDI is one of the participating organizations along with IIT Kharagpur from India in the multi-national/multi-organization collaborative project titled "Greenhouse Gas Recovery from Coal Mines and unminable Coal beds and conservation of Energy(GHG2E)" which has been approved under the partial funding scheme of European Union Research Commission. The balance fund has been provided under a CIL R&D scheme. The project aims at studies and modeling of recovery of coal mine methane and its utilization as clean energy.

The work has been taken up and the assigned CMPDI work packages were submitted to Imperial College of Mining in January 2013 as per schedule. Presentation for progress review and Project workshop scheduled from 10th-14th June' 2013 at Slovenia were sent to Project Coordinator. The Project coordinator along with team reviewed the progress at CMPDI on 13th Nov'13 and visited Moonidih mine on 14th Nov'13 to finalized data acquisition sites and drawn action plan to generate samples. A review meeting was held with IIT Kharagpur at CMPDI on 24th Jan'14. CMPDI is pursuing its assigned tasks as a collaborative partner and efforts made by CMPDI were appreciated.

2.0 PROJECT PLANNING & DESIGN

As prioritized by subsidiary companies of Coal India Limited, preparation of Project Reports (PR) for new/expansion/reorganisation mines was carried out during the year 2013-2014 for building additional coal production capacity to the tune of 81 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 (PR) for valuation of Explored Captive Coal blocks identified by Ministry of Coal for Auction through competitive bidding were also prepared.

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

- Master Plan of Coalfields
- Preparation & evaluation of RFQ (Request for Qualification) and RFP (Request for Proposal) documents and customisation of bid document for coal washeries
- Operational plans for large 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 Report for setting up of FBC based thermal power plants using washery rejects.

Detailed design and drawings, NIT, tender scrutiny, etc.

the year 2013-2014, During 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, Assessment of Normative Cost of sand stowing for stowing mines, etc.

During the year 2013-2014, a total of 248 reports have been prepared for CIL and its subsidiary companies.

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

REPORTS	Nos.
Geological Reports	15
Project Reports	26
Other Studies	167*
Draft EMPs (including 26 Form-I)	40
TOTAL	248

* This includes 6 Operational Plans of large opencast mines.

Detail of reports prepared during the period 2013-2014 is furnished below:

LIST OF COMPLETED REPORTS DURING 2013-14

RI/HQ	Name of the Reports		RI/HQ		Name of the Reports	
Geological Reports			RI-VI	1.	Jayant Expn. OCP	
RI-I	1.	Bansra-Searsole	RI-VII	1.	Basundhara West Extn	
RI-II	1.	Block-VII OCP			(with Chaturdhara) OCP	
RI-III	1.	Pundi		2.	Kulda Expn. OCP	
	2.	Gidi C	HQ	1. 2.	Samleshwari Extn. OCP	
RI-V	1.	Tulsi Block B	Operational Plans	۷.	Jagannath Reorganisation OCP	
	2.	Baroud-Bijari	RI-IV	1.	Ukni OC	
	3.	Porda		2.	Pimpalgaon OC	
RI-VI	1.	Bijul Block	RI-VI	1.	Jayant OCP	
RI-VII	1.	Brahmanbil		2.	Dudhichua OCP	
	2.	Karadabahal		3.	Nigahi OCP	
HQ (Contractual)	1.	Lohapatti East	RI-VII	1.	Lingaraj OC Expn.	
	2.	Chira NE B (Non-CIL)	Other Reports			
	3.	Marki-Barka West Ph-I	RI-I	1.	Determination of Benchmark of	
	4.	Sayang South (Non-CIL)			Powder Factor at North Searsole,	
	5.	Chira North (Non-CIL)		-	Bansra & Dabor OCs	
Project Reports				2.	Controlled blasting and vibration study at Bansra OCP	
RI-I	1.	Siduli UG (Recast)		3.	Controlled blasting and vibration	
	2.	Bakulia UG			study at Topsi OCP	
RI-II	1.	Lohapatti UG		4.	Updated Cost Estimate (UCE) Kumardih 'B' UG mine with out	
RI-III	1.	Karo Expn. OCP			sourcing option	
	2.	Ashok Expn. OCP		5.	Controlled blasting and vibration	
	3.	Jeewandhara OCP			study at Khottadih OCP	
	4.	Ara OCP				
	5.	Kalyani OC		6.	Controlled blasting and vibration study at Chitra OCP	
	6.	Asnagarha OCP		7.	Conceptual Report on Bansra	
	7.	Sawang Pipradih OCP		1.	OC Patch	
RI-IV	1.	Gauri Deep OC RPR		8.	Controlled blasting and vibration	
	2.	Saoner-I UG to OC			study at Sonepur Bazari OCP	
	3.	Kumbharkhani OC		0		
	4.	Bhanegaon Expn. OC		9.	GR for PR of Siduli UG	
	5.	Yekona Combined OC		10. 11.	GR for PR of Madanpur UG GR for PR of Bakulia & Bakulia	
	6.	Durgapur (Deep) Extn. Reor		11.	Extn. UG	
	7.	Makardhokra-I Expn. OC		12.	Conceptual Report on Nirsa OC	
RI-V	1.	Vijay Central OC			Patch	
	2.	Haldibari UG RPR		13.	UCE of PR for Low Height Con	
	3.	Amadand OC RPR		11	tinuous Miner at Jhanjra UG Conceptual Report on Mohanpur	
	4.	Madan Nagar OC		14.	OC Patch	

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

RI/HQ		Name of the Reports	RI/HQ		Name of the Reports
	15.	Recast PR of Itapara OC		7.	UCE of Pauni-III OC
	16.	GR for PR of Chitra OC		8.	Scheme of Pauni OC Extn.
	17.	Conceptual Report on Dabor		9.	Scheme of Telwasa OC Extr.
		Phase-III		0. 10.	Scheme of Ghorawari (16,17) Extn. OC
	18.	Scheme for introduction of		11.	UCE of Ukni Deep OC & Bellora-
		Highwall Mining at Tilaboni, Nimcha & Sripur Blocks			Naigaon Deep OC
	19.	Controlled blasting and vibration		12.	UCE of New Majri UG to OC &
		study at Chitra OCP			Gauri Deep OC
RI-II	1.	Preparation of Global Bid		13.	UCE of Jamunia UG
		Documents of Sudamdih Shaft Mine		14.	UCE of Dhankasa UG PR (updation)
	2.	UCE for PR of NT/ST (Expn.) OCP			and New Majri Sector I(A) & II(A)
	3.	Revised GR for Lohapatti UG		15.	Feasibility Report for Saoner UG to
		Mine (Eastern Part)			OC conversion
	4.	Kharkharee-Dharmabandh Extn.		16.	Controlled Blasting study at Gauri
	_	(Revised GR)		47	Deep OCP
	5.	Conceptual Report for mining of Chandrapura Block		17.	Controlled Blasting study at Kolar Pimpri OCP
	6.	Diesel Audit and benchmarking		18.	Scheme for deployment of Dragline
	0.	of diesel consumption of HEMM			at Mungoli Nirguda OC
		of Block-II OCP		19.	Revised GR of Makardhokra-I OC
RI-III	1.	UCE for Churi-Benti and		20.	Revised GR of Yekona I & II OC
		Piparwar-Mangardaha UG for		21.	Revised GR of Durgapur &
		MDO mode			Motaghat (Comb.) OC
	2.	UCE for DRD OC for MDO mode		22.	UCE of Niljai Expn. (Deep) OC and
	3.	Scheme for pollution control at			Bhatadi Expn OC
	4	Dakra railway siding		23.	Energy Audit Report (Diesel) with benchmarking for Junad OC
	4. 5	Pre-feasibility report for Kedla UG		24.	Energy Audit Report (Electrical)
	5.	UCE of Sanghmitra OCP		24.	with benchmarking for Mauri UG
	6.	Report on NPV calculation of Jhirki & Jhirki West OCP		25.	Scheme for Mohan OC
	7.	Report on NPV calculation of		26.	Revised GR of Bhanegaon (Bina) OC
		Tokisud-II OCP	RI-V	1.	RCE of Bijari OCP
	8.	Revised GR of Kathara Ph-I		2.	UCE of Kusmunda OC (4 Mty)
	9.	UCE for Churi-Benti and Piparwar-		3.	UCE of Batura OC (4 Mty)
		Mangardaha UG for MDO mode		4.	UCE of Chhal OC (6Mty)
RI-IV	1.	Mining Plan of CRC UG & DRC UG		5.	UCE of Pelma OC (15 Mty)
	2.	Energy Audit Report (Electrical)		6.	Report on scientific study for
		with benchmarking for Ballarpur			controlled diphole blasting beyond
	2	3 & 4 UG Energy Audit Report (Electrical)			100m from hutments & railway line
	3.	with benchmarking for Tawa-II UG			at Dugga OCM
	4.	Energy Audit Report (Diesel) with		7.	UCE of Mahan-II OC (6 Mty)
		benchmarking for Kamptee OC		8.	UCE of Amritdhara OC (2 Mty)
	5.	UCE of Tawa-II UG		9.	Manriding scheme for Rajendra Mine
	5. 6.	UCE of Chincholi OC			
	0.		L		

RI/HQ		Name of the Reports	RI/HQ	N	
	10.	Trial blasting and scientific study to introduce 160 mm departmental drill in coal benches at Mahan II OCM		4.	Repo Pane
	11.	Controlled blasting study at NCL Mines		5.	Rep prop
	12.	UCE of Amgaon OC (1.0 Mty), Amera OC (1.02 Mty) and Chirimiri OC (2.0 Mty)		0	Kap Loh
	13.	Subsidence prediction study report of Rehar UG Mine		6.	Sche Talcl
	14.	Opencast feasibility study of Shivani UG RPR		7.	Land Clus
RI-VI	1.	Mining Plan of Krishnashila OCP		8.	Lano Gan
	2.	Diesel auditing and benchmarking of Nigahi OCP		9.	Land
	3.	Diesel auditing and benchmarking of Khadia OCP		10.	OCF Land
	4.	Diesel auditing and benchmarking of Dudhichua OCP		11.	OCF Fire base
RI-VII	1.	Scheme for transportation of coal from Kulda OCP to Basund-hara washery		12.	Aste
		5			at pa
	2.	Mining Plan of Bhubaneswari OCP (25 Mty)		13.	Rep Colli Sea
	3.	Report on deployment of 10 cum. Electric Shovel with 100T Dumper in place of 20 cum. Rope Shovel			Sea (R-X
		with 170T Dumper at Bharatpur OCP & its economics		14.	Soil
	4.	Scheme on coal transportation from Hingula OCP to proposed Hingula		15. 16.	Soil OCF Cont
		washery including silo loading arrangement at Balram siding			at Re
	5.	Mining Plan of Siarmal OCP (40 Mty)		17.	Con stud
	6.	GR for PR of Neelachal-Kaniha		18.	Land
	7.	UCE of Talcher West UG			Naw
	8.	UCE of Siarmal OCP		19.	Lano Kam
	9.	Mining Plan of Basundhara (West) Extension		20.	Lanc
	10.	Bharatpur OCP Reorganisation			mine
	11.	Scheme for transportation of raw coal to Jagannath Washery and construction of silo at siding III & IV		21.	Fire fields (TIR
HQ	1.	Scheme for introduction of man riding system of 10 mines of SECL		22.	Mine unde 2013
	2.	Subsidence prediction report of Gandhigram UG Mine, WCL		23.	Rep
	3.	Pre-feasibility report in respect of Swang Sand Winning Project, CCL			and (V S

	Name of the Reports
 4.	Report on method of extraction of Panel 'H' of Tandsi Mine, WCL
5.	Report on physico-mechanical properties of BH Nos. MKP-23, Kapuria block and MLE-16 Lohapatti East block, BCCL
6.	Scheme for water treatment plant at Talcher, MCL
7.	Land use/cover mapping of Cluster-XII Mine of ECL
8.	Land use/cover mapping of Gandhigram UG of WCL
9.	Land use/cover mapping of Ama- dand, Saraipalli and Kusmunda OCPs of SECL
10.	Land use/cover mapping of Arga OCP of CCL
11.	Fire mapping of Jharia Coalfields based on ThermalInfra Red (TIR) Aster Satellite data
12.	Controlled blasting and vibration study at patch B&C of Tarmi OCP, CCL
13.	Report on RMR studies of Haripur Colliery, No.1 & No.2 incline (R-V Seam), J K Nagar Colliery (R-V Seam) and Nar samuda Colliery (R-X Seam), ECL
14.	Soil erosion study for Rohini OCP, CCL
15.	Soil erosion study for Jharkhand OCP, CCL
16.	Controlled blasting and vibration study at Religara & Giddi 'C' OCP, CCL
17.	Controlled blasting and vibration study at Lohapatti Colliery, BCCL
18.	Land use/cover mapping of Nawapara UG of CCL
19.	Land use/cover mapping of Kamptee Deep OC of WCL
20.	Land use/cover mapping of buffer zone of Cluster-3 and Cluster-4 mines of ECL
21.	Fire mapping of Raniganj Coal- fields based on Thermal Infra Red (TIR) Aster Satellite data
22.	Mine capacity assessment of underground mines of CIL for 2013-14
23.	Report on RMR studies of Sawang Colliery, (Top/18ft/10ft/6ft Seams), and Karo Special Project, Phase-II (V Seam), CCL

RI/HQ		Name of the Reports	RI/HQ		Name of the Reports
	24. 25.	Scheme for Acid Mine Drainage (AMD) of Tirap OCP, NEC Mine Closure Plan of Tirap OCP, Tikak OCP and Tipong OCP of		42.	Feasibility Report for replacing Steam Drive with Electric Drive in Steam Winder at Pit No.2 o Tal-cher Colliery
	26.	NEC based on guidelines of Minis-try of Coal Scientific study of blasting at NT-ST OCP & Jeenagora Hired		43.	Scientific study at Hirakhand Bundia Mine to suggest sequence of depillaring operations, method
	27.	Patch,Lodna Area, BCCL Preparation of Global bid Docu- ment for manriding vehicle at Jhanjra Project, ECL		44.	of working and support design Report on analysis of specific consumption of explosives diesel and electric power of
	28.	Gas Survey of 7B seam of Kumardihi A Colliery, ECL			opencast mines of CIL during 2012-13
	29.	Report on RMR studies of Bansra Colliery, (R-VI and R-VIII Bottom Seams), Bankola Colliery (R-VIII		45.	Slope stability study o Bhanegaon OCP, WCL
		Top Seam), Lower Kenda Colliery (R-V Seam) of ECL and Ray Col- liery (Lower Bachra Seam) of CCL		46.	Top soil management study o Rohini OCP, CCL
	30.	Soil erosion study for Ashoka OCP, CCL		47.	Controlled blasting & vibration study at KDH OCP, CCL
	31.	Land use/cover mapping of buffer zone of Cluster-8 mines of ECL		48.	Reports on RMR studies of Pandaveswar Colliery (R-IV(E seam & R-V seam), Amritnaga
	32.	Scheme for nala diversion of Rajrappa OC, CCL			Colliery (R-VI seam) and Ner Kenda Colliery (R-VI seam), ECL
	33.	Study Report of Bina Deshaling Plant, NCL		49.	Scheme for Acid Mine Drainag (AMD) of Bharatpur OCP, MCL
	34.	Assessment of capacity & capacity utilisation of opencast mines of CIL during 2012-13		50.	Scheme for Effluent Treatmer Plant (ETP) Amlai OCP, SECL
	35.	Performance of HEMM of open- cast mines of CIL during 2012-13		51.	Reports on RMR studies of C Jambad Colliery (R-VIII seam and Kalidaspur Project (R-IX
	36.	Report on RMR studies of Kedla UGP, Incline Nos.1 and 3, Seam VA of CCL		52.	seam), ECL Vegetation Cover Mapping of Kamptee Coalfield
	37.	Scheme for Benti Nala diversion of Piparwar OCP, CCL		53.	Top soil management study o Konar OCP, CCL
	38.	Top soil management study of Ashok OCP, CCL		54.	Slope stability study of Balrar OCP, MCL
	39.	Land use/cover mapping of buffer zone of Ganpati OC, WCL		55.	Annual benchmarking 14 OCF identified by CCL
	40.	Vegetation Cover Mapping of Jharia and Wardha Valley Coalfield		56.	Annual benchmarking 8 OCP identified by NCL
	41.	Gas Survey of R-X seam of Nar samuda Colliery, ECL		57.	Annual benchmarking 12 OCP identified by MCL

RI/HQ		Name of the Reports	RI/HQ		Name of the Reports
	58.	Annual benchmarking 14 OCPs	RI-II	1.	Bhojudih Coal Washery (2 Mtpa)
		identified by BCCL		2.	Mahuda Coal Washery
	59.	Annual benchmarking 9 OCPs		3.	Cluster-XVII Mines (Revised)
		identified by ECL		4.	Cluster-IV Mines (Revised)
	60.	Annual benchmarking 3 OCPs		5.	Dugdah Coal Washery (Revised)
	61.	identified by SECL Annual benchmarking 17 OCPs	RI-III	1.	Kedla Group of Mines
	01.	identified by WCL		2.	Religara OCP
	62.	Fire mapping of Bokaro and		3.	Form-I and Addendum EMP of
		Karanpura coalfields based on		4	Govindpur PH-II OCP (1.52 / 2.0 Mty)
		Thermal Infra Red (TIR) Aster		4. E	Topa Expn. OC
	C 2	Satellite Data		5. 6.	Sanghmitra OC
	63.	Land use/cover mapping of buffer zone of Damini UG, Amagaon UG,		0. 7.	Tapin South Expn. OCP Phase-I Form-I and Addendum EMP of
		Bhadra UG and Rehar UG, SECL		1.	Govindpur PH-II OCP (2.2/2.5 Mty)
	64.	Land use/cover mapping of buffer	RI-IV	1.	Nandan-II UG
		zone of Mahan OC, Baroud OC, Mahan-II OC & Chaal OC, SECL		2.	Hindustan Lalpeth Extn. OC
	65.	Land use/cover mapping of buffer		3.	Mungoli Nirguda OC
		zone of Kedla OC, Kuju OC &		4.	Gauri Deep Expn. OC
		Pundi OC,CCL		5.	Bhatadi Expn. OC
	66.	Land use/cover mapping of buffer	RI-VI	1.	Amlohri OCP
		zone of Cluster-I Mines, Chitra OC, Rangamati UG & Ghusick		2.	Krishnashila OCP
		UG, ECL	RI-VII	1.	Bhubaneswari OCP
	67.	Vegetation cover mapping of		2.	Garjanbahal OCP (Revised)
	01.	Talcher, Bishrampur and Makum		3.	Kakudi/Kishorepal Sand Mine
		Coalfields	но	1.	Basundhara Washery, MCL
	68.	Assessment of capacity of open	Draft EMP		
		cast mines of CIL (Projections as on 1.4.2014)	RI-I	1.	Cluster-III Mines
	69.	Report on RMR studies of Bahula		2	Cluster-X Mines
		Colliery (R-VI / R-VII seam), ECL		- 3.	Cluster-IV Mines
	70.	Electrical Energy Audit and bench	RI-III	1.	Gose OCP
		marking of Moonidih Project and		2.	Kuju OC
	74	Washery	RI-IV	 1.	Gandhigram UG
	71.	Electrical Energy Audit and bench marking of Lakhanpur Mine, MCL	RI-V	1.	Kusmunda Expn. OC (Revised)
	72.	Top Soil Management of Parej		2.	Amadand OC
		(E) OCP, CCL		3.	Mahan-II OC
	73.	Soil Erosion Study of Parej (E)	RI-VII	1.	Lingaraj OCP
		OCP, CCL		2.	Lakhanpur OCP Expn.
F	Environment Managen			3.	Nizigarhjami & Gopinathpur
<u>Form-I</u>	1.	Sand Mining in Ajoy River (Revised)		5.	(Mandapal) Sand Mine
RI-I	2.	Sand Mining in Damodar River (Revised)	HQ	1.	Cluster-VIII Mines, ECL
	3.	Madanpur UG		2.	Cluster-XI Mines, ECL

2.1 COAL & MINERAL PREPARATION

CMPDIL 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. It is equipped with ISO certified modern laboratory with latest and sophisticated equipments for carrying out laboratory scale studies. CMPDIL has already handled many prestigious assignments in the field of Beneficiation of coal and other minerals against stiff competition in open market which includes

- 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 2013-14.

A. REPORTS/STUDIES.

- Preparation of Report on washery for Mine PR of Pauni Combined OCP (WCL), Karo OCP (CCL), Kalyaneswari OCP (BCCL), Kulda Expn. OCP (5.0 Mty) (MCL) and Lohappati UG Mine (BCCL)
- 2. Preparation of study report for Bina Deshaling Plant, NCL

Updating cost estimate of Electrical & Mechanical part of integrated effluent treatment plant of Krishnashila OCP, NCL

 Preparation of Electrical and Mechanical specification and estimate for the scheme for Effluent Treatment Plant at Tirap OCM, NEC

- 4. Preparation of updated cost estimate for 4.0 Mty washery for DRD Project, CCL
- 5. Preparation of Conceptual Report for Ib Valley Washery (Lakhanpur Washery)
- 6. Vetting of Price escalation of Madhuband washery, BCCL.
- 7. Preparation of Report on ETP for Bharatpur OCP, MCL
- 8. Preparation of Report on ETP for Amlai OCM Expansion, SECL

B. PREPARATION OF TENDER DOCUMENT

- Preparation of RFQ part of Bid Document for Jagannath washery and Basundhara washery of MCL and Dugda washery of BCCL
- Preparation of RFP part of Bid Document for Dugda washery, Patherdih-II washery and Bhojudih washery of BCCL; Basundhara washery and Jagannath washery of MCL (draft on e-tendering mode)

C. TENDER SCRUTINY

- 1. Evaluation of RFQ part of Bid Document for Jagannath washery and Basundhara washery of MCL
- 2. Evaluation of RFP part of Bid Document for Hingula washery and Basundhara washery of MCL

D. AGREEMENTS

1. Preparation of contract agreement for Hingula washery, MCL

E. APPROVAL OF CONSTRUCTION DRAWINGS

1. Madhuband washery

Total no. of drawings approved: 105

F. R&D and S&T Projects

- i. Dry-deshaling with Allmineral Allair Jig at Bharatpur, MCL.
 - 1. Tender floated.
 - 2. Part-I opened and evaluation is in progress.
- ii. Dry-deshaling with Ardeesort Technique (Radiometric) at Madhuband washery, BCCL.
 - 1. Tender floated.
 - 2. Successful bidder identified.
 - 3. Work order issued and construction work started at site.
- iii. Development of Coal Preparation Plant Simulator.
 - Status reviewed by R&D Board, CIL.

G. OUTSIDE CONSULTANCY

a) Preparation of study report for KPCL

2.2 PROJECT APPRAISAL

- Scrutiny and appraisal of 26 nos of draft PRs/RPRs//EPRs prepared by Regional Institutes and HQ Departments of CMPDI during the year 2013-14, and coordination for their presentation at CMPDI (HQ) for guidance to the concerned Regional Institute and HQ Department before finalization of the reports.
- Scrutiny and appraisal of 8 nos of conceptual notes prepared by Regional Institutes, and coordination for their assessment by Director (T) (P&D) along with OC/UMD Department and PAD for finalizing the main technical parameters before preparation of the draft PR/RPR/ EPR.

- Updation of status of implementation of ongoing projects costing more than Rs. 500 crores, especially with respect to actions under CMPDI's responsibility, for the Secretary (Coal)'s Quarterly Review Meetings.
- 4. Updation of status of formulation of PRs for XII Plan coal mining projects of CIL at the time of Secretary (Coal)'s Quarterly Review Meetings, VIP visits, and RDs' Coordination Meetings.

3.0 UNDERGROUND MINING AND OPENCAST MINING

The following jobs were completed and are in progress during the year 2013-14

3.1 UNDERGROUND MINING

A. OUTSIDE CONSULTANCY JOBS (COMPLETED):

- Comprehensive Consultancy Services including design, preparation of Tender document, TEFR for sinking of 7.5 meters diameter vertical high speed shaft about 630 mtrs. deep at Balaghat mine of MOIL
- Preparation of Mining plan & Expansion PR for enhancement of production from Balaghat mine
- 3. Detailed design of vertical shaft, winding installation & vetting of TEFR for vertical shaft at Munsar mine, MOIL.

OUTSIDE CONSULTANCY JOBS (IN PROGRESS):

- 1. Detailed design of vertical shaft, winding installation & vetting of TEFR for vertical shaft at Ukwa mine , MOIL
- 2. Preliminary design, Tender Document & TEFR for Gumgaon Mine, MOIL
- Consultancy services for preparation of Mine Plan & Expansion PR for Gumgaon mine, MOIL

B. CIL JOBS (COMPLETED) :

- 1. Prefeasibility report in respect of Swang Sand Winning Project, Kathara area, CCL
- 2. Suggestion for method of extraction of Panel 'H' of Tandsi mine, Kanhan Area, WCL
- 3. Scheme for introduction of man riding system of 10 mines of SECL
- 4. Preparation of design for man riding rail car system for Incline no.2, Talchar West mine
- 5. Quick comments on various "Mining Plan & Mine Closure Plan" for other than CIL Client
- Preparation of detailed Project Report (DPR) for 6 (2 nos. allotted to UMD) Explored Captive coal blocks for valuation by CRISIL for bidding.
- 7. Preparation of NIT/TD,BOQ, Detailed design of supports for Incline drivage at Piparwar UG, CCL
- Technical vetting of Draft Project Report of Muraidih U/G mine, BCCL submitted by M/s MINOP
- 9. Comments on draft DPR of Kapuria Projects submitted by M/s AMR-BBB
- 10. Mine Capacity Assessment for the year 2013-14
- 11. Preparation of Global Bid Document for Manriding Vehicle at Jhanjra Project, ECL
- 12. Gas survey of 7B seam of Kumardihi A colliery, Bankola area & Nursamuda colliey, ECL
- Inspection & Feasibility Study for replacing Steam Drive with Electrical Drive in steam winder at Pit no.2 of Talcher colliery, MCL

- Scientific study at Hirakhand Bundia mine to suggest sequence of depillaring operations, method of working and support design
- 15. Vetting of DPR for Moonidih 15 seam, BCCL
- 16. Preparation of draft NIT for operation of Chinakuri-I, U/G mine, ECL, through joint venture route.
- 17. Updation of cost estimate of Project Report for Sitanala Coking Coal Block
- 18. Preparation of comprehensive Project Report of Lohapatti U/G mine of BCCL
- 19. Preparation of PR for Andal_Babuisol Block, Raniganj Coalfields

B. CIL JOBS (IN PROGRESS) :

- 1. Stability analysis of headgear structures of Pandaveswar area, ECL
- 2. Preparation of PR for Dongrital Under Ground mine, NCL
- 3. Ventilation survey of Jhanjra mine of ECL
- Preparation of Draft & Final RFQ and RFP documents for selection of MDO for Opencast/Underground mines of CIL
- 5. Mine Capacity Assessment for the year 2014-15.

3.2 OPENCAST MINING JOBS COMPLETED

Major Outside Consultancy Jobs

- 1. Feasibility Report for Devangudi Lignite Mine Project – Client NLC.
- 2. MINING PLAN for Palana Lignite Mine Project – Client – NLC.
- 3. MINING PLAN for Dongribuzurg Manganese OCP Client – MOIL Limited.

4. UCE for Mahan Coal Company – Client Essar Mining Ltd.

Major Internal Consultancy Jobs

- FR of Samleshwari Extension OCP (Considering all seams) – Client MCL, CIL.
- 2. FR of Jagannath Re-organization (MCL) with

Revised Boundary - Client MCL, CIL.

- 3. PR forTirap Opencast Project (Recast) (0.60 Mty), NEC
- Analysis of specific consumption of explosives, diesel & electric power of OC mines of CIL during 2012 -13.
- Performance of HEMM of OC mines of CIL during 2012 – 13.
- Study note on 20 cum. ERS + 190 T dumper combination requirements (Ref: CMD's Meet – 77th/80th).
- Assessment of capacity & capacity utilization of opencast mines of CIL during 2012-13
- 8. Capacity projection for all opencast mines of CIL as on 01.04.2014.
- 9. Allocation of CIL plant no of newly procured HEMM during 2013-14.
- Technical Scrutiny of Open Cast Project Reports (15 nos.) prepared by different Regional Institutes was carried out.

Review of Mining Plans for Ministry of Coal

- i. Mining Plan (1st Revision) and Mine Closure Plan for Gare IV/7 coal blocks of M/s. Sarda Energy & Minerals Ltd.
- Mining Plan of RG OC-III Extension (First Revision) including RG OC-III Extension Phase-II Project of SCCL (January – 2013).

- iii. Revised Mining Plan including Mine Closure Plan (November, 2011) for part of Manuguru Mining Lease, Revision-2 (Manuguru OC-IV Extension), District – Khammam, AP.
- iv. Mining Plan of ChatchiBariatu (South), M/s. NTPC.
- v. Mining Plan of North Godavari Mining Lease – 6th Revision (KalyanKhani OCP), M/s. SCCL.
- vi. Mining Plan for Gare Pelma Sector II, M/s. Maha Tamil Collieries Ltd.
- vii. Mining Plan for Gare (Sector IV/7 (First Revision), M/s. Sarda Energy Mineral Ltd.
- viii. Mining Plan of Gotitoria East & West Coal Block.
- ix. Mining Plan of Makala Lignite Deposit (M/s. RSMML), District Nagpur.
- x. 2nd Revised Mining Plan of TARA (East West) Block, Raniganj Coalfield, submitted by M/s. Bengal EMTA Coal Mines Ltd.
- xi. Mining Plan of Pakri Barwadi Coal Block (East Quarry), NK Coalfield by M/s. NTPC Ltd.

4.0 ENGINEERING SERVICES

4.1 CIVIL ENGINEERING

PROJECT PLANNING JOBS

- PR/FR preparation of Jagun OCP (NEC), Jagannath OCP (MCL), Recast of Tirap OCP (NEC) and Samleswari Extension OCP (MCL)
- 2. Technical vetting of 17 nos. of PRs

DETAILED DESIGN JOBS

- 1. Design/Drawing of A,B,C type Quarters for BCCL
- 2. Design/Drawing of Combined Office Buildings for BCCL areas.

- 3. Design/Drawing of CGM office Amlorhi
- 4. Design/Drawing of Kalyan Mandap at Amlorhi
- Design/Drawing of Office Building of CMPDI RI V & RI VI
- 6. Structural adequacy study for Samleshwari and Lajkura Projects
- 7. Design/Drawing of Buildings for Anandwan Camp

PREPARATION OF TURN-KEY TENDER DOCUMENTS

- 1. Water Treatment Plant at Talcher, MCL
- 2. Effluent Treatment Plant at Krishnashila, NCL
- 3. Nigahi Incremental CHP, NCL
- 4. Tetulmari CHP, BCCL

TENDER EVALUATION :

- 1. Block B CHP (3.5 MTY) NCL awarded
- 2. Khadia CHP NCL -
- 3. Nighai Incremental CHP NCL -
- 4. CMPDI RI V Bilaspur awarded
- 5. CMPDI RI VI Singrauli awarded

ARCHITECTURAL JOBS

- 1. Layout and Design for different type quarters and office building for BCCL
- Design and estimation for CMPDI, RI-V Building at Bialspur and RI VI Building at Singrauli
- Design and layout of office complex at Margheritta for NEC
- 4. Preparation of Scheme and turn-key tender documents for Belpahar Training Institute at Lakhanpur area, MCL

5. Design of Kalyan Mandap and CGM Building at Amlorhi

DESIGN/ DRAWING SCRUTINY

- a. Scrutiny of design and drawing for Ananta CHP of capacity 15 MTY with two numbers of Rapid loading Silo of capacity 4000 tonne, Ground Bunker, Two locations of Truck Receiving Hoppers, associated conveyor Structures and associated civil/ structural and infra-structure facility total 80 Nos. of drawings were approved/ commented based on the scrutiny of the design documents/ drawings submitted by the contractor.
- b. Scrutiny of design and drawing for Kirshnashila CHP of capacity 3.5 MTY with Rapid loading Silo of capacity 3000 tonne, Ground Bunker of capacity 15000 tonne, Receiving pit with Gyratory Crusher ,associated conveyor Structures and associated civil /structural and infra-structure facility - total 100 Nos. of drawings were approved/ commented based on the scrutiny of the design documents/ drawings submitted by the contractor.
- c. Scrutiny of design and drawing for Block B CHP, NCL with Rapid loading Silo of capacity 3000 tonne, Ground Bunker, Receiving pit with Gyratory Crusher ,associated conveyor Structures and associated civil /structural and infrastructure facility - total 150 Nos. of drawings were approved/ commented based on the scrutiny of the design documents/ drawings submitted by the contractor.

BLOCK - B, NCL



Receiving Pit & TH1

Ground Bunker

Silo

4.2 ELECTRICAL AND MECHANICAL ENGINEERING SERVICES

4.2.1 Mine Planning (Infrastructure)

(i) CIL Projects

- Meenakshi OCP
- Mahamaya OCP, Bhatgaon Area
- Bharatpur OCP

4.2.2 Coal Handling Plant

- Krishnashila CHP (4.0 Mtpa): Scrutiny/ approval of Design & Drawings submitted by Turnkey contractor M/S HEC and project monitoring for construction is going on.
- Block B main CHP: Scrutiny/ approval of Design & Drawings submitted by Turnkey contractor M/S L&T and project monitoring for construction is going on.
- Nigahi Phase III CHP (5 Mtpa): Tender Floated and Tender scrutiny going on.
- Khadia Phase II CHP (6 Mtpa): Tender Floated and Tender scrutiny going on.

4.2.3 Workshop & Store

i) Khadia OCP

4.2.4 FBC based Power Plant

 Conceptual Report for FBC based power plant at :

- i) 2X40 MW FBC based TPP at Jagannath, MCL
- ii) 2X125 MW Recast FBC Based TPP at Basundhara, MCL

4.2.5 Energy Audit and Benchmarking

- Reports on annual benchmarking of diesel consumption of 70 identified OCPs of CIL
- Detailed Diesel Audit & Benchmarking
 - i) Bina OCP, NCL
 - ii) Rajrappa OCP, CCL
 - iii) Tarmi OCP, CCL
- Report on Electrical Energy Audit and Benchmarking of
 - Moonidih wahery and WJ area of Moonidih area.
 - ii) Lakhanpur and Lingraj Mine, MCL
 - iii) Data Collection of AkashKinari colliery
 - iv) Dudhichua, NCL
 - v) Nigahi, NCL

4.2.6 Power Supply and Distribution & Control Systems

Scheme and NIT for 2X2.5 MVA, 33/11 KV MCL HQ Substation. "Reliable power supply arrangement for corporate office of MCL & its associated township at Sambhalpur

- Scheme and NIT for 3X5 MVA, 33/6.6 KV Block B opencast Project Substation.
- Scheme and Nit for Construction of 220/30 kV Kaniha substation, MCL

4.2.7 Inspection Services

CMPDI Continued Third Party Inspection services for Pre-disptach of equipment and materials purchased by various subsidiaries of CIL. Total revenue earned from these sevices was around 4 crores in 2013-14.

4.2.8 Other Studies

- Reorganization of power supply of NCL Coalfield
- Scheme & NIT of Kulda OH Line
- Fire Detection & Fire Fighting in Jurabaga Sub station
- Preparation of Scheme,e-NIT & Estimate for providing Automatic Fire Fighting arrangement with automatic Fire Detection and alarm communication system for Regional Sub station Kalinganagar under Orient Sub area of MCL
- Illumination Survey of Dudhichua,NCL
- 200 KW Rooftop Solar System at CMPDI,HQ
- Formulation of Diesel price Escalation Formulae in association with IIT Kharagpur
- Pre feasibility study for Coal Block Allocation by Coal Ministry of Kardabahal (6 MT) and Brahmanbill (5 MT).
- Concept Note for Ministry of Coal on CIL prospects of Power generation by

IGCC (Internal Gasification Combined Cycle) based power plants as a source of renewable energy from coal gasification.

 Concept Note for IMC (Inter Ministerial Committee) on Indicative Power Generation Potential of Washery Rejects obtained from CIL coal washeries for fixation of cost of CIL washery rejects on the basis of their GCV (Gross Calorific Value) and power generating potential.

4.3 TOWN ENGINEERING SERVICES

Town Engineering Services includes:

- 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.
- Maintenance of all electrical, electronic and mechanical equipments pertaining to the office and maintaining the inventory of the same.
- iii) Maintenance of all office furniture.
- iv) Water supply management by takingup 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 2013-14 in TE & CM Division of CMPDI (HQ) :

COMPLETED WORKS

SI.No.	Name of Works	Work Value (Rs. In lakh)
1	Construction of boundary wall, repair of damage drains, construction of dustbin and repair of nallah	
	at CMPDI Township at NTS, Barkakana.	
2	Extension of store shed and renovation of existing shed at CMPDI(HQ) complex, Ranchi	33.41
3	Renovation of Park near STP and Old office and extension and renovation of Hill park at CMPDI(HQ), Ranchi.	80.49
4	Refurbishing of Library & publication deptt at CMPDI(HQ), Ranchi.	60.71
5	Development of Logistic support in CMP Division including renovation of CP Lab and renovation of	58.52
	Opencast Division for creation of Simulation Lab at CMPDI(HQ), Ranchi	
6	Repair of roof of residential buildings and service buildings at CMPDI(HQ), complex, Ranchi	91.27
7	Installation of 2 nos. borewell with hand pump facility at Lower Misirgonda village, Kanke Road, Ranchi under CSR activities of CMPDI.	1.04
8	Renovation of main gate including resurfacing of road and allied works at CMPDI(HQ), Ranchi.	51.33
9	Annual maintenance contract for one year for Mosquito Control & Anti-Termite Treatment for residential quarters and office building in CMPDI campus, Kanke Road, Ranchi.	9.22
10	Annual maintenance contract for Garden including maintenance of seasonal plants (Indoor & Outdoor) at CMPDI(HQ), Ranchi	23.83
11	Upkeep work of CMPDI(HQ) complex for a period of one year.	72.36
12	Operation and maintenance of waste water treatment plant including operation and maintenance of pumps for one year at CMPDI(HQ), Ranchi.	6.11
13	Maintenance Contract for 2012-13 for electrical works of CMPDI complex, Ranchi (Residential & Non-residential both) for one year.	59.25
14	Special repair maintenance at CMPDI(HQ), Ranchi (LED)	51.47
15	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.	34.51
ON-GO	ING 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	48.54
	and painting of existing building at Birsa School, Hathia gonad and construction of concrete road at Patragonda village under CSR scheme of CMPDIL.	
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
SI.No.	Name of Works	Work Value
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		(Rs. In lakh)
7	Special repair and maintenance of Documentation, Security, E&M, CIL Cell and Exploration Division	162.00
	at Ground floor, 1st, 2nd, 3rd & 4th floor of Old Office Building and balance portion of R&D building	
	at CMPDI(HQ), Ranchi.	
8	Construction of two class rooms at Birsa High School premises at Hathia Gonda village under CSR	15.54
	activities of CMPDI	
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	6.14
	pumps for one year at CMPDI(HQ), Ranchi.	
11	Maintenance Contract for 2014-15 for electrical works of CMPDI complex, Ranchi (Residential &	59.25
	Non-residential both) for one year.	
12	Supply, installation and commissioning of 40 ton capacity air-conditioning system alongwith standby	AMC
	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.	
13	Operation of waste paper recycling plant at CMPDI(HQ), Ranchi.	Departmentally

5.0 RESEARCH & DEVELOPMENT PROJECTS

5.1 R&D PROJECTS UNDER S&T GRANT OF MINISTRY OF COAL

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, amonast others. The main functions of SSRC are to plan, programme, budget and oversee the implementations of research projects and seek application of the findings of the R&D work done.

The SSRC is assisted by a Technical subcommittee 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.

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, 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

Total no. of S&T projects taken - 380 up (till 31.03.2014) Total no. of S&T projects - 310 completed (till 31.03.2013) Physical and financial performance during 2013 -14:

A. Physical performance

The status of Coal S&T projects during 2013 -14 is as follows:

Projects on-going as on 01.04.2013		
Projects sanctioned by Gol during 2013 -14	02	
(Annexure-A)		
Projects completed during 2013 -14		
(Annexure-A)		
Projects on-going as on 01.04.2014		

B. Financial Status –

Budget provisions and actual expenditure are shown below:

(₹	in	Crores)
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2012 -13		2013 -14	
RE	Actual	RE	Actual
11.40	11.53	11.65	11.76

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 Cr value with a limit of ₹ 25.0 Cr per annum considering all the projects together and CIL R&D Board is empowered to sanction individual R&D project up to ₹ 50.0 Cr.

So far, 71 projects have been taken up under the fund of CIL R&D Board out of which 48 projects have been completed till March 2014.The status of CIL R&D Projects during 2013-14 are as follows:

i)	Projects on going as on 01.04.2013	23		
ii)	Projects sanctioned during 2013 -14	02		
	(Annexure B)			
iii)	Projects completed during 2013–14	07		
	(Annexure B)			
iv)	Projects on going as on 01.04.2014	18		

The disbursement of fund for CIL R&D projects during 2013 -14 is Rs 10.97 Cr.

Annexure-A

S&T Projects funded by Ministry of Coal sanctioned during 2013-14

(₹in Lakh)

(₹ in Lakh)

SI No	Name of the Project	Total Approved Cost
1	Coal Bed Methane (CBM) reserve estimation for Indian coalfields.	2069.91
2	Development of an on-line coal washability analyzer.	849.00

S&T Projects funded by Ministry of Coal completed during 2013-14

SI No Total Approved Cost Name of the Project Integrated communication system to communicate and locate trapped underground miners. 428.69 1 2 Design and development of coal winnowing system for dry beneficiation of coal 181.40 based on CFD modeling and simulation. Development of Methodology for estimation of Greenhouse Gas emissions in 354.491 3 mine fire areas and their mitigation through terristerial sequestration. 47.67 4 Development of tribo-electrostatic separator for beneficiation of high ash Indian coking coals. An approach to explore the applicability of spectrometry as a tool for assessment of coal quality 147.61 5

Annexure-B <u>R&D Projects funded by CIL sanctioned during 2013-14</u>

(₹in Lakh)

SI No	Name of the Project	Total ApprovedCost
1	Design, Develop and Demonstrate a Micro-Grid system for optimization and control of Multiple source of power supply.	351.30
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.	26.58

R&D Projects funded by CIL completed during 2013-14

(₹in Lakh)

SI No	Name of the Project	Total Approved Cost
1	Analysis of in-situ stress for CBM exploration in Jharia Coalfield.	168.597
2	Effective utilization of low rank and low volatile high rank Indian coking coals for Blast Furnace (BF) coke making	265.00
3	Assessment of performance of explosives/ blast results based on explosive energy utilization.	236.35
4	Investigations of Bolt Behaviour in Development and Depillaring Panels under Blast Induced Dynamic Loading	491.08
5	Feasibility study of High Angle Conveying System (HAC) in Open Cast Coal Mines by Computer Modeling and Simulation.	211.50
6	Investigation on augmentation of life of dump truck tyres through the improvement of the tyre re-treading compound and development of an optimum road maintenance management system-Phase-II	64.37
7	Development of a notch cutting machine to facilitate construction of stoppings in underground coal mines.	11.15

The performance against the target for 5 R&D projects chosen by CMPDI, as per MoU 2013-14 between CMPDI and CIL, is given below:

SI.No.	Project Chosen	Performance Indicator	Target (Excellent)	Actual
2.1	Investigations of Bolt Behaviour in Development and Depillaring Panels under Blast Induced Dynamic Loading.	Knowledge Generation/ dissemination	If report preparation is completed by 14th Dec.13	Project Completion Report submitted vide letter dated 18th Nov.13.
2.2	Indigenous development of Integrated Dumper Collision Avoidance system for opencast mines.	Equipment/ material development to improve Opencast Mine Safety	If system fitment and field trial completed by 31st Jan 14	The system fitment trial report submitted vide letter dated 20th Nov.13.
2.3	Studies on shrinkage swelling characteristics of some Indian coals to ascertain recoverability of CBM from deep seated coal and shale resources	Process development / improvement	If design of sample cells and experimental set up completed by 28th Feb. 14	The report on completion of design of sample cells and experimental set up submitted vide letter dated 30th Jan.14
2.4	Construction of quick setting stopping incase of fire in underground mines using expansion foam agent.	Equipment/ material development to improve Opencast Mine Safety	If field trials in two mines of MCL completed by 30th Sep.13	Field Trial Report in three mines of MCL submitted vide letter dated 20th Sep.13
2.5	Assessment of performance of explosives/ blast results based on explosive energy utilization	Improvement in productivity	If estimating Seismic & fragmentation energy completed by 30th Jun. 13	The report containing data and necessary analysis for estimation of seismic and fragmentation energy submitted vide letter dated 29th May 13.

6.0 LABORATORY SERVICES

6.1 Chemical Laboratory

Characterization study of coal core samples generated from 30 blocks comprising Jharia CF,Mand-Raigarh CF, South Karanpura CF,Raniganj CF, Talchir CF, Singrauli CF,Sohagpur CF,Johilla CF, West Bokaro CF & Korba CF explored by CMPDI was carried out during the year 2013-2014. A total 12053 meter of Coal Cores was processed, 37577 nos. of samples were analyzed for quality evaluation and their downstream utilization. Under the project "Augmentation of capacity of coal core analysis at CMPDI (HQ)" all imported & indigenous equipments have been procured and commissioned.

4 boreholes from Mozambique have been analyzed. 402.25 m of coal core has been processed. Band by band analysis for 841 samples has been carried out. GCV and Volatile Matter for 20samples have been determined.

6.2 Coal Petrography Laboratory

During the year 13-14 ,the laboratory has undertaken Petrography study on 875 coal samples from 32 exploration blocks comprising Jharia CF,Mand-Raigarh CF, South Karanpura CF,Raniganj CF,Talchir CF,Wardha Valley CF, Singrauli CF,Sohagpur CF,Johilla CF,IB river valley CF,West Bokaro CF& Korba CF (14% Growth). Systematic characterization of raw and clean coal samples (Bore Hole coal core and ROM samples) from BCCL, CCL, MCL, NCL, SECL, ECL has also been carried out during the year.

Petrographic Study has been carried out on 10 samples from Mozambique. Procurement for Scanning Electron Microscope, X-ray Diffractometer and Polarised Microscope is under process.

6.3 Coal Preparation Laboratory

CMP Laboratory is engaged in washability study (including Proximate Analysis, GCV, HGI, Caking Properties etc.) for both coking and non-coking coal samples of different coalfields as per requirement. The above tests are done for bore core coal samples as well as RoM coal samples etc. for construction of new washeries, modification of existing washeries etc.

The number f the coal samples whose washability testing was done during the FY 2013-14 is given below:

- 1) Bore Core Sample 40
- 2) RoM Samples from mine 2
- 3) Washery Feed Coal Sample 3
- 4) Other Coal Samples 2

6.4 Coalbed Methane (CBM) Laboratory

CBM Lab established at CMPDI has enhanced its capacity and added facility of TOC equipment for shale gas potentiality assessment. The instrument "Rock Eval Analyszer" required for assessing shale gas prospectivity for which supply order has been placed and procurement of the instrument "Automatic Porosimeter cum Permeameter" is under process.

CBM Lab has carried out the field desorption studies at the borehole sites in 8 boreholes during 2013-14 and has generated total gas content and gas composition data. In addition, studies have been carried out in 6 boreholes for assessment of shale gas potentiality.

CBM lab has carried out Adsorption Isotherm (AI) test for 20 numbers (17 Coal and 3 Shale) of samples during 2013-14 through the in-house facility created in CMPDI in addition to carrying out Total Organic Carbon (TOC) analysis on 110 number of shale samples. Analysis of 913 mine air samples, received from different collieries of CCL, was also carried out and the results have been submitted.

7.0 ENVIRONMENTAL SERVICES

7.1 EIA / EMPs

During the year, CMPDI prepared a total of 26 nos. of Form-1 and formulated 14 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 2013-14, environmental monitoring of 301 projects/establishments of CIL (ECL-42, CCL-60, WCL-79, SECL-82, NCL-13 and MCL-25) were carried out through nine environmental laboratories located at Asansol, Nagpur, Bilaspur, Kusmunda, Hasdeo, Jayant, Talcher, Ib Valley and Ranchi.

7.3 Accreditation to CMPDI as EIA Consulting Organisation

CMPDI has been accreditated 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 and Coal Washeries sector. Application has also been made for inclusion of thermal sector in our scope of EIA services. This Surveillance assessment has been conducted in March'14.

7.4 Accreditation of CMPDI Environmental Laboratory

- CMPDI Environmental Laboratory at HQ, RI-IV & RI-V has been assessed for accreditation by NABL, New Delhi. The accreditation certificate is awaited.
- 2) CMPDI Environmental Laboratory has received OHSAS Certification 18001-2007.

7.5 ETP, STP & WTP for Coal Projects

Four Schemes for Effluent Treatment Plant (ETP), One scheme for Sewerage Treatment Plant (STP) and One scheme for water treatment Plant (WTP) have been prepared.

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

Quick comments on 42 nos. of mine closure plans were prepared and sent to MOC during the year.

7.7 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 condition of the environmental and forestry clearances issued by Ministry of Environment & Forests, Government of India. Accordingly, 2 nos. slope stability study and determination of ultimate slope angle of high wall were completed. Besides, 4 nos. of soil erosion control studies of CCL projects and 3 nos. of Top Soil Management of CCL projects were also completed.

7.8 Celebration of World Environment Day

The World Environment Day was celebrated on 5th June, 2013. 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.

8.0 INFORMATION & COMMUNICATION TECHNOLOGY

In addition to providing in-house support, CMPDI has been extending consultancy services to CIL and its Subsidiaries. Some of the major jobs done during Financial Year 2013-14 are:

- Web enabled Executive Information 1) System for CIL and subsidiaries has been developed and maintained to facilitate establishing a system for managing Executive related HR information. During financial year 2013-14, 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.
- 2) Web enabled On-line recruitment application portal has been a successful project developed under consultancy Mahanadi Coalfields Limited. for Sambalpur, Eastern Coalfields Limited, Sanctoria, Central Coalfields Limited, Ranchi and South Eastern Coalfields Limited, Bilaspur. The same portal is extended to CMPDI. This is tool for Recruitment Division to accelerate the direct recruitment process for nonexecutive employees governed by NCWA.
- 3) Web enabled On-line recruitment application portal for Management

Trainees is developed for Coal India Limited. Through this portal the recruitment of Management Trainees is being done.

Online recruitment, e-recruitment or web based recruitment is the use of Online technology or the internet to attract candidates, searching for the talented candidates and aid the recruitment process. A job vacancy advertisement is available on website for 24 hours a day, 7 days a week.

- Web enabled on-line Performance 4) Report for Individual Development of Executive (PRIDE). 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.
- Developed and implemented on-line web enabled Annual Property Return system for all executives of Coal India Limited for the year 2013.
- Developed and implemented for uploading of scanned Annual Property Returns for all executives of CMPDI for the year 2012.
- CMPDI is maintaining the website of Mahanadi Coalfields Limited at CMPDI Server.
- Designing and development of on-line Land Information System (first phase) for Coal India Limited is in process.

- 9) Developed bill tracking system for the use of all departments in CMPDI, HQ.
- 10) Web enabled Consumer Grievance System, Vigilance complaints system developed for SECL & NCL.
- 11) Portal for Corporate Social Responsibility has been developed for ECL and CMPDI
- 12) Prototype Vigilance Clearance System for CIL has been developed and demonstrated to CVO, CIL

Enhancement of Infrastructure of CMPDI

- In order to improve connectivity of web servers, internet leased line band-width capacity has been enhanced from 10 Mbps to 20 Mbps.
- 2) Replacement of licensingservers for CMPDI.
- Additional MS office license and Kaspersky antivirus for CMPDI has been procured.
- 4) Procurement of Oracle Software with latest development tools..
- 5) Replacement of 71 Desktop PCs and additional procurement of 55 PCs for Regional Institutes.
- Replacement of 21 Workstations and 3 additionalprocurement of workstations for HQ and RIs.
- 7) Replacement of Wide format Scanners for HQ and RIs.

8.1 INFORMATION MANAGEMENT SYSTEM Following activities/jobs were undertaken:

 Publication of Deshkal Sampada – 4 issues of our in-house magazine have been published during the year. This includes editing, DTP work, layout and publication of the magazine.

- Publication of Minetech 4 issues of our technical magazine 'Minetech' have been done during the year. This includes editing, DTP work, layout and publication of the magazine.
- Dispatch of magazines Dispatch of approximately 14000 copies of b o t h the magazine to different places like MoC, CIL & subsidiary HQs and units etc.
- 4. Publication of book Publication of book titled "Coal- Its Properties and Characterisation" done.

8.2 VIGILANCE

During 2013-14, CMPDI endeavored to promote good governance in the organization. Better governance results in improved mechanisms and processes of the organization. Transparency, fairness, encouraging competitiveness and leveraging of technology plugs loopholes in the system.

Major tasks accomplished during the 2013-14 fiscal are as follows:

- 1. A new e-procurement Cell has been constituted in the Company. At the Headquarters, all contracts above a certain threshold limit are tendered in e-procurement mode.
- 2. Geo-physical logging after the closure of boreholes has become online for outsourced drilling.
- 3. Inventory management norms have been finalized.
- 4. Digitization of CMPF contribution and systemic improvements for settlement of CMPF and Pension.
- 5. APR-2012 of the executives has been scanned and put up on its website.

- Systemic studies conducted in Tendering process in TE Dept. resulting in improved tendering process and development of feedback process in outsourced housekeeping works.
- 7. Systemic studies done in Environment Division and suggestions made to improve the tendering process and greater control on the environmental data generation.

9.0 SPECIALISED SERVICES

9.1 Geomatics

CMPDI 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 32 OC projects producing less than 5 million cu.m. (coal+OB) have been completed based on high resolution satellite data during the year 2013-14. Monitoring of land reclamation status in larger capacity mines (>5 mcm) are carried out regularly on annual basis and smaller mines (<5 mcm) at three years interval.

9.1.2 Vegetation cover mapping

Vegetation cover mapping of six coalfields viz. Jharia, Talcher, Bisrampur, Wardha Valley, Kamptee and Makum coalfields have been completed during the year 2013-14 for assessing the regional impact of coal mining on land use/vegetation cover in the coalfields.

9.1.3 Land use mapping

Land use/cover mapping of core and buffer zone of 28 projects of ECL, CCL, MCL, SECL and WCL have been completed for generating baseline information for Environmental Management Plan.

9.1.4 Coal mine fire mapping and MFIS

Monitoring of coal mine fire in Raniganj, Jharia, East Bokaro, West Bokaro and Karanpura coalfields based on LANDSAT thermal infrared data have been carried out during the year. Mine Fire Information System (MFIS) has been developed on GIS platform for effective monitoring of the mine fire for planning the mitigative measures.

9.1.5 Topographical mapping

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 Check measurement

OBR Check measurement has been carried out in 141 mines/outsourced patches of CIL subsidiaries during the year 2013-14.

9.1.7 DGPS survey of forest boundary

As per the latest guidelines of MoEF, DGPS survey of the forest land to be acquired for mining purpose is to be surveyed using DGPS and shape file has to be submitted along with the application submitted foe stage-I forest clearance. DGPS survey of forest land in 17 mining projects have been completed during the year for forestry clearance.

9.1.8 Geo-referencing of leasehold boundary

Geo-referencing of leasehold boundary of Gare-IV/1, 2 & 3 over digital cadastral map and superimposition of the same on LISS-IV + CARTOSAT-II satellite data have been carried out for mining lease to M/s. Jindal Steel and Power Ltd.

9.1.9 Underground correlation survey

Underground correlation survey of Nakrakonda UG mines have been carried out during the year.

9.1.9 Measurement of washery rejects

Slurry and washery rejects measurement in Dugda and Bhojudih coal washery.

9.1.10 OB dump survey

Dragline OB dump survey in all the OC mines of NCL are carried out regularly for safety purpose.

9.1.11 Abandoned mine void survey

Abandoned mine void survey in CCL command area are carried out to assess the quantum of OB materials left near the abandoned mines as well as quantity of mine water available in the voids for formulating the remedial measures of CCL towards reclamation of mined out area.

9.2 BLASTING

9.2.1 R&D Project under implementation during 2013-14

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.

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 explosive and accessories testing.

9.2.2 Technical services rendered to different subsidiaries of Coal India Limited & outside agencies during 2013-14:

- Controlled Blasting & vibration study 8 mines of BCCL, CCL and One Tunnel of M/s Madhya Bharat Power Corpn.Ltd.
- Optimization of blast parameters and improvement of Powder factor study – 2 mines of BCCL and MCL.
- Random Sampling and Testing of explosives and accessories – In mines of CCL, BCCL, NEC and Neyveli Lignite Corporation.
- To provide Drilling and Blasting parameters for construction blasting of M/s Gannon Dunkerley & Co. Ltd , New Delhi
- 5. Performance evaluation of explosive and Blast design in Sasan Power Ltd.

- Scientific Study of blasting at NT-ST OCP & Jeenagora hired patch ,Lodna Area,BCCL by Digital Image Analysis.
- 7. Blast design of Long hole blasting at Central Kajora Colliery,ECL

9.2.3 R&D Project Completed during 2013-14

- Assessment of performance of explosives/Blast results based on explosive energy utilisation in collaboration with NITK, Surathkal.
- Investigations of Bolt Behaviour in Development and Depillaring Panels under Blast Induced Dynamic Loading in collaboration with IIT KGP, and SAIL (RDCIS).

9.3 MINING ELECTRONICS

CMPDI renders services in preparing Feasibility Reports, Detailed Design Reports and Tender Documents for establishing communication network, Telemonitoring of Environmental Parameters for U/G and O/C mines. It also renders valuable services to subsidiary companies in repairing and calibration of methane gas detectors used in underground mines for safety purpose, as well as in repairing of Imported/Indigenous HEMM cards. It 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

- e-NIT for Environmental Telemonitoring System(ETS) of Hirakhand-Bundia, MCL has been submitted and for Sawang, CCL is in progress.
- MoC approved S&T Project on "Integrated communication system to communicate and locate trapped underground miners". The field trial

for Phase-I, Phase-II and Phase-III is completed at Bhurkunda Colliery, CCL.

- CIL R&D Project on "Indigeneous Development of Integrated Dumper Collision Avoidance System for Open cast Mine"- Field Trial for prototype is completed at KDH O/C of CCL.
- 4) MOC approved S&T Project on "Development of Tele-Robotics and Remote Operation Technology for U/G Mines"- The design of 3D model of robot has been completed and currently the manufacturing & assembly of the mechanical systems are in progress at CMERI, Durgapur. Also, compatible module to integrate geo-technical sensors and wireless mote to retrieve sensor data wirelessly is being designed & developed at CIMFR, Dhanbad.
- Chapters on Electronics & Telecommunication for 24 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 -205 Nos.
- 2) Repairing & Calibration of Methanometers 81 Nos.

9.4 COAL TECHNOLOGY

The R&D project on development of indigenous catalyst for conversion from coal to liquid (CTL) is under progress jointly with CIMFR Dhanbad. The project is likely to be completed by September 2014.

9.5 MANAGEMENT SYSTEM CONSULTANCY

Over the years, CMPDI has substantially expanded its capabilities in the field of

consultancy service for implementation and assistance in certification of the various management systems, like ISO 9001 Quality Management System (QMS), ISO 14001 Environmental Management System (EMS), OHSAS 18001 Occupational Health and Safety Management System (OHSMS), ISO 27001 Information Securities Management System (ISMS), ISO 50001 Energy Management System (EnMS), SA8000 Social Accountability Management System (SAMS), ISO17025 (Competence of testing and calibration laboratories).

CMPDI provides such consultancies through the design and implementation of either the individual management system standards or Integrated Management Systems (IMS) conforming simultaneously to different management system standards as may be required under various combinations.

CMPDI facilitates creation and documentation of management systems, provides training and auditing support, initial implementation and certification support and post certification support/assessments etc. for all the management systems mentioned above.

9.5.1 Management System Consultancy for CIL and its Subsidiary Companies

Being the nodal setup for all such work in CIL, CMPDI has facilitated all CIL subsidiary companies to achieve a total of 165 certifications against the international standards, ISO 9001, ISO 14001, OHSAS 18001 and ISO 17025 in various opencast and underground mines, hospitals, workshops, washery, training institute, etc.

Besides these, two subsidiaries, viz., MCL & NCL were facilitated to achieve companywide Integrated Management System (IMS integrating ISO9001, ISO14001 & OHSAS 18001) – these being the first such achievements for a Coal India subsidiary.

The team at Management System Division has also coordinated and helped the two subsidiaries, SECL & NCL in achieving the Social Accountability Management System, SA 8000.

9.5.2 Jobs Completed during 2013-14

During the year 2013-14, certification/ recertification of 65 units was achieved for different management system standards, under the guidance of CMPDI – this includes 38 newly certified units and 27 recertified units. Management systems consultancy worth about 77 lakhs were completed during the year.

Certifications for OHSAS18001 & ISO17025 were also achieved for the first time for the Environment Lab, CMPDI.

The two subsidiaries, MCL & NCL were certified/recertified for a company-wide Integrated Management System.

9.5.3 Work in Progress

In view of the success of a company-wide Integrated Management System in MCL & NCL, a proposal of implementing a companywide IMS was made during the 82nd CMDs meet at Kolkata for the remaining Subsidiaries of CIL. This was agreed to by all CMDs. Work for the implementation of this type of IMS have started. The current jobs in hand will be carried on till the transition to the company-wide IMS is achieved.

CMPDIL has also started NABH (National Accreditation Board for Hospitals & Healthcare Services) certification

consultancy for CCL Gandhi Nagar Hospital at Ranchi. This will be the first hospital of Coal India Ltd to be accredited with NABH under our consultancy.

10.0 MATERIAL MANAGEMENT

10.1 Disposal of Scrap and Obsolete Items:

The scrap and obsolete items are disposed off on a regular basis based on approved Survey-off Report submitted by different departments and Regional Institutes. Company has a Selling Agency Agreement with M/s. MSTC which facilitate on-line disposal of such items through e-auction. During the year under review, scrap and obsolete items worth ` 102.00 lakh have been disposed off against Annual Target of ` 100.00 lakh.

10.2 Inventory Control :

There are 55 Nos. Of drills deployed at different sites by the Regional Institutes which are in continuous operations. Consumables like drill rods, core barrel, drill bit, TC bit etc. are regularly required during the operation of the said drills. Hence, sufficient stock of these items has to be maintained to ensure continuous operation. As a part of inventory control, supply orders are placed for consumables with phased delivery to avoid building-up of inventory. The inventory as on 31.03.2014 was valued to ` 524.00 lakh as against ` 550.00 as on 31.03.2013. Hence there is decline in inventory. The inventory is mainly comprising of drill rod, casings, drill bit, core barrel, Tungsten Carbide (TC) bit etc. The inventory also consists of accessories and consumables for 4 Nos. Hydrostatic Drills added in the fleet during 2012-13. This inventory will be consumed in due course before supply of fresh lot of items.

10.3 Procurement related to different Laboratory items:

As per CMPDIs Plan, Laboratories was expanded to include additional tests at CMPDI, HQ. and Regional Institutes. 45 types of instruments were added in the lab during 2013-14 which has enhanced the capability of Laboratory to take up new jobs.

10.4 Purchase of items related to Drilling:

Purchase of drills, its accessories and consumables in time is essential to meet the drilling target of CMPDI. All indents received for these items have been finalized on priority to ensure that the Regional Institutes do not have shortage of either drills or consumables which could impede the drilling target. The items required by Regional Institutes were made available to them in time and there have no instance of any complaint from any of the drilling cap regarding non-fulfillment of their requirement. There was sufficient stock of the items to take care of continuous operation.

10.5 Purchase of Drill Machines:

During 2013-14, 04 Nos. Mechanical Drills were received during the year. Order was placed for 04 Nos. of Mechanical Drills which was also received in 2013-14.

All Tenders valuing ` 1.00 Cr. or more have been implemented Integrity Pact. Two Independent External Monitors (IEMs) are engaged for the tenders. Shri N. Narasimhan, IPS (Retd.) and Shri N.R.Banerjee, IAS (Retd.) was our IEM up to 12.11.2013 During their tenure periodical meeting was held and have good relation. Due to end of their tenure two IEMs have been engaged for CMPDI by CIL name Shri Prof(Dr.) L.C.Singhi, IAS (Retd.) and Dr. S.M.Jharwal, IES (Retd.).

10.6 E-Procurement initiative:

E-Procurement system (EPS) was implemented at CMPDI in 2010 for procurement of Goods through ITI Portal. However, for other contracts such as work & Services, Paper Tender was being done. In November'2012, IT was decided by CMPDI that all tenders/procurements should be made through EPS only. As no service provider was available in CMPDI for work & service contract, a decision was taken by the Competent Authority to adopt the NIC module which was being used at MCL. As the MCL-NIC module was customized for use by MCL, several modifications were made to make the system workable at CMPDI particularly for Turnkey contracts.

It is pertinent to mention that for the first time in the history of Public Sector Undertakings in India, CMPDI has been able to finalize Turnkey Tenders through e-Procurement System. The module developed by CMPDI for Turnkey Tenders has been well appreciated by NIC. MCL has also sought our help to design the model for tenders related to CHP construction at MCL.

The immediate benefit of implementation of EPS has been complete transparency, considerable reduction in the lead time for finalization of tender, reduced paper work and very competitive prices.

In the last financial year (2013-14) CMPDI has issued 41 tenders through EPS valued at approx. Rs. 1109 Cr. Out of which 29 tenders have been finalized.

11.0 HUMAN RESOURCE DEVELOPMENT

During the year 2013-14, exposures were given to CMPDI employees in the following major areas:

Major Area	STC	IICM	External	Foreign	Total
Managerial	289	51	57	0	397
Technical/	421	15	134	5	575
Functional					
Cross	58	17	43	0	118
Functional					
Total	768	83	234	05	1090

The above details include the training imparted to CMPDI executives as per the MoU between CMPDI & CIL for the year 2013-14 in the following areas:

- 1) Certified Training in Project Management – 25 nos. of executives
- 2) Certified Training in Contract Management – 15 nos. of executives
- Formal Training in Environment, Forest Management and Land Acquisition – 11 nos. of executives
- Formal Training in Risk Management 2 nos. of executives.

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

Foreign training

During the year 2013-14, total 05 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 234 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 :

- Training Program on Developing competencies of executives secretaries for future.
- Vigilance Awareness & Preventive Vigilance for containing corruption , malpractices & Deficit in Goverance
- Program on "Non-Destructive & Evaluation of concrete structure"
- Mid Term Session & Seminar on state of the Art building technology.
- International Conference Expo on Coal Benefication 2013.
- National Seminar on Sustainable and Responsible Mining the only way forward.
- National Seminar on Increasing production & productivity in coal power steel and allied sectors.
- Program on Carbon Mgt. sustainability Reporting & Renewable Energy.
- Application of recent techniques for management of environmental issues & allied industries.
- Nomination for participation in 1day Technical Workshop at DGMS(HQ)
- Project Management :Three day Workshop on Totality of Project Mgt., leading to certificate in project mgt(CIPM)
- Program on recent trends in technologies of sewarage system and sewarage treatment.
- Implementation of reservation policy on

SC, ST,OBC's in PSE's Banks, Govt. aided bodies & Govt. institutes.

- Contract and their Management
- Training in completion Law for coal India Companies
- Management Development Program on Integrated e-procurement system.
- Refresher course on ground water resource estimation.
- One day seminar on service tax by ICAI, Ranchi
- Training course on ground water regulation & control.
- Setting up of washeries on project financed model.
- Training on Gender issues:Discrimination & Equality at home, at work Place and in society Program "-women empowerment & Dev. Prg."
- Annual seminar of Forum of women in public sector-WIPS, CIL(HQ) and coordinator meets.
- 5th Indian Coal Summit
- Program on Training of Trainers.
- Short term course on Power Electronics.
- 23rd World Mining Congress & Expo
- Geospatial technology and it's application
- Training Program on First Aid certification
- Project Management.Training and Certification Module
- National Seminar on odour assessment & control in India requirement for regulatory framework.

- Seminar on elevated coridors
- Regional HR conference 2013
- Remote Sensing & GIS application for GW studies
- 2 weeks Special Training course on RADAR Remote Sensing
- Mining Exploration and Trade Show(Mining Mazma-2013)
- Information Security Management: System for ISO 27001:2006
- Application of surface geophysical techniques for aquifier mapping.
- Application of Borehole Geophysical Techniques for acquifier mapping
- Three Day Residential Board Program for Board & Senior Level executives.
- National Seminar on Business & Investment opportunity in Mineral Industry 2013.
- National Seminar on Explosive & Blasting Techniques.
- Exhibition Convention and Trade Show(Mining Mazma 2013)
- Training of CMPDI Personnel in Microbiological & Toxicological parameters
- Project Management. Training and Certification Module
- 3 day national W/S" The Art & Science of Mgt for the Mining Industries"
- National W/S by Indian Bureau of Mines
- Comprehensive Course on Mining Technology and Mining Machinery both surface and underground.
- Mathematical Modelling for Ground Water

- National Seminar on Mining Industry challenge & opportunities.(MICO'13)
- Magnetic Particles Testing(MPT-IT)
- National Seminar on productivity challenges of infrastructure development in coal ,oil,power & allied sector.
- The 14th Asia pacific conference on Non-Destructive testing.
- Mathematical Modelling for Ground Water
- International conference on "Accountancy profession-Emerging Frontiers of Future Growth".
- Short Term Course on Sustainable Development of mineral resource exploration vis-à-vis Environment.
- Short term course on post Mining mine site restoration, re - forestation, CSR and Retiver system technology.
- Program on LIFE(Retirement planning)
- Workshop on Project Risk Management leading to certificate in Project Risk Management
- One day Workshop on HR Audit
- Current Requirement in Environment Impact Assessment(EIA)-Process & Procedure(MOEF)
- Risk Based Internal Audit for Effective Management control.
- Secretarial Effectiveness : Accelerating workplace performance.
- Seminar on Dragline Mining-Prospects & Challenges
- Jharkhand Mining Conclave, challenges & Opportunities.
- Seminar on conveyors evolving OC technology 2013

- International Conference on Coal & Energy Technological advances & future challenges.
- 3 day W/S on Vigilance Awareness for containing corruption, Malpractices & Deficit in governance.
- Information Security Management: System for ISO 27001:2005
- One day seminar on Revised CSR & Sustainability Development issued by DPE
- Indian Geo-spatial Forum 2014
- Lead Auditor Course on Energy Management System
- International Symposium on Environmental Management and current Practices in Mining & Allied Industries.
- 5th Asian Mining Congress Exhibition ,Kolkata
- 6th Indian Mineral Congress & Exhibition
- WIPS Members for Participation in 24th national Meet.
- 4th International Conference on Automation and Information technology in Iron Steel making.
- Seminar & Business Networking cocktail & Dinner event.
- Empowerment of women workers in coal industries
- Coal India Medical Conference
- Stress Mgt.
- Seminar on the companies Act 2013 & Service Tax
- Brainstorming workshop on geostatics for natural resource modelling BSWG-2014

Short Term course on "Mine planning & post mine site restoration: CSR-EMP Integration

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, 83 numbers of executives have been trained in 2013-14.

Some of the topics are listed below:

- Program for retiring executives
- Right To Information Act, 2005
- Computer Basic for Senior Executives
- Goods & Services Tax & Direct Tax code
- Contemporary Issues on contract labour act
- General Management program
- Short Program on Coal Preparation Path Ahead.
- Program on Contract Management
- Short Programme: Self Management of Excessive Tension
- HR: A Strategic Management Partner
- Advance Management Program
- HR Manual Workshop Program
- SP-11:Corporate Social Responsibility
- FEM-2: Functional Skill Programme for Electrical & Mechanical Engineering.
- SP 12 : Short Programme : Environment sustainability & Inclusive Growth in Coal Sector

- LDP-1: Leadership Development Program
- Short Programme on Enterprise resource Planning and Vigilance Awareness
- Workshop on Total Cost Management
- MIN-2:Functional Skill Program for Mining Engineering
- SP-17: Short Programme :Land Acquisition & R&R.
- SP-16: Short Programme : Service Jurisprudence.
- SPL:3 Project Management for Coal Companies(In association with an Institution of Excellence)
- E-Tendering of Works
- HMA: Program on Hospital Management
 & Administration
- SP:19: Short Programme : Use of Rajbhasha

Training at Staff Training College

Training of non executives and CMPDI specific training of executives are being organized at STC. A total of 768 executives and non executives have attended training, workshop etc. at STC during 2013-14.

Apart from the regular Training Programmes, such as : Functional & upgradation of Technical Skill/ Knowledge for MT(Geology, Geophysics), 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:

- Auto CAD 3D Modelling Training programs
- Training on dot net Technology & operation of application software under ICRIS Project

- Training on Auto CAD MAP 3D
- Contract Management Certification
 Program
- Workshop/Presentation on UG Mine
 Planning Software
- Basic Awareness of ISO 9001,ISO 14001 & other Mgt Systems
- Vulcan Mine-Planning Software-Presentation &Workshop
- One Day Workshop On Drilling Practices
- Understanding of standards ISO 9001& ISO 27001 and Internal Auditing skills in QMS & ISMS.
- Training Program For MT(Environment) for Functional & Upgradation of Technical Knowledge
- Training Program For MT(E&M) for Upgradation of Technical Knowledge
- Training on Electronic Total Station and its Software
- Training Program.on E-Procurement
- Training on First Aid &Mock Drill for fire fightining for lab personnel
- Upgradation of Technical Knowledge for MT(Geo)
- Upgradation of Technical Knowledge for MT(E&M)
- W/S on Leadership Communication & Presentation Skills for women executive
- Functional Cum Managerial Awareness Program For MT's(CP)
- Functional Cum Managerial Awareness Program For MT's(Geology)
- Functional Cum Managerial Awareness Program For MT's(Env.)

- Training Program. of MT's(Civil) For Upgradation of Technical Skill
- Training Program. of MT's(Geo) For Functional & Upgradation of Technical Skill
- Functional Cum Managerial Awareness Program for MT's(Geo & Geophy)
- Retirement Planning
- Hindi Workshop
- Training on Online Performance
 Management System(PMS)
- Yoga & Stress Management
- Online filling of Annual Property Return
- Training health awareness for women employees

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 155 numbers of students have been trained at CMPDI in 2013-14. 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.

The Institutions approached for training are:

- 1. IIT, Roorkee.
- 2. IIT,BHU, Varanasi.
- 3. Indian School of Mines, Dhanbad.
- 4. BIT, Mesra.
- 5. NIT, Jamshedpur
- 6. University Of Petroleum Energy Studies, Dehradun

- 7. VIT, Vellore
- 8. MIT, Manipal
- 9. Satyabhama University, Chennai.
- 10. Rishiraj Institute of Technology.
- 11. SRM University, Chennai.
- 12. PDGE, Nagpur.
- 13. XISS, Ranchi.
- 14. KIIT, BBSR.
- 15. St. Xaviers College, Ranchi.
- 16. Alliance University, Banglore

12.0 OUTSIDE CIL CONSULTANCY

During the period April, 2014 to March, 2015, Consultancy services were provided to 20 organisations for 29 jobs. Some of the important clients/organizations to whom services were provided are Nayveli Lignite Corporation, MOIL, NTPC, SAIL-ISP, NALCO, Jindal Steel & Power Ltd., Singareni Collieries Company Limited, Damodar Valley Corporation etc.

Presently, 28 outside consultancy jobs are in hand for 18 organisations like MOIL, IDCO, NTPC, OMC, OPGC, M/s Baitarni West Coal Co. Limited, Neyveli Lignite Corporation Limited, Hindustan Copper Limited, Damodar Valley Corporation, Karnataka Power Corp Ltd etc.

During the year 2014-15, 36 jobs worth Rs. 23.35 crores from 20 organizations were procured by CMPDI.

As per requirement of MoU 2013-14 between CMPDI & CIL, a 'Risk Management Plan – 2014' has been prepared after due consultation with all the stakeholders.

13.0 MANPOWER AND WELFARE ACTIVITIES

13.1 STATUS OF MANPOWER:

Particular		As on	As on
		1.4.2013	1.4.2014
Executive	Executive		970
	Monthly	1228	1253
Nam	Rated		
Non	Daily	957	912
Executive	Rated		
	Total	2185	2165
Grand Total		3142	3135

13.2 WELFARE ACTIVITIES:

- 1. CMPDI has 2518 nos. of quarters at its Headquarters and Regional Institutes with housing satisfaction of almost 100%.
- 2. Adequate supply of drinking water has been made available to employees of CMPDI.
- 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. General and Merit Scholarship to 174 children of CMPDI employees were given amounting to Rs. 2,12,040.00.
- Fees and Hostel charges of 22 children of CMPDI non executive employees were reimbursed amounting to Rs. 8,29,375.00
- CMPDI provides financial assistance/ grant of Rs.1.00 lakh to DAV Public School, Gandhi Nagar, Ranchi.
- There are 31 nos. of school buses including hired small vehicles for school going children of employees.

- 8. The dependents of employees who represented District/State/Nation in the field of sports were awarded cash prize.
- Cash Award amounting to Rs. 1,23,750/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 2013.
- 10. Gratuity Cheque is being given to the employees on the day of their superannuation.
- 11. All the employees of CMPDIL are getting their salary through Bank
- A Grant of Rs. 1,50,000.00 only was given to WIPS for organizing Regional Meet at CMPDI (HQ), Ranchi.
- A Grant of Rs. 25,000/- (Rs. twenty five thousand) only was given to WIPS for publication of newsletter.
- A Grant of Rs. 20,000/- (Rupees twenty thousand) only was given to Kasturi Mahila Sabha for organizing get-together.
- 15. World AIDS Day was celebrated on 1st Dec., 2013.
- CMPDI conducted summer coaching camp from 30.05.2013 to 12.06.2013 for the wards of employees.
- 17. A Grant of Rs. 10,000. only was given for celebrating Ambedkar Jayanti.
- Grants were given to clubs functioning in Hq and Regional Institutes for celebrating New Year.
- Cost of one LPG cylinder per month is being reimbursed to all non executive employee of CMPD

13.3 SPORTS ACTIVITIES:

- Sri Kameshwar Ravidas, Sports Supervisor and Sri Vinod Kumar Singh, Jr. Data Entry Operator represented CMPDI in Master's Athletic Championship at Coimbatore w.e.f. 24.02.2014 to 28.02.2014.
- CMPDI Golf Team consisting of Sri H.G. Singha, Chief Manager (System), Sri D.K. Gupta, Sr. Manager (E&M) and Sri S.P. Sahu, Asstt. Supervisor (Transport) participated in All India Public Sector Golf Tournament held at MCL, Sambalpur w.e.f. 19th to 20th Dec., 2013.
- Inter-Regional Institute Football Tournament was conducted at RI- V, Bilaspur conducted for the first time.
- CMPDI conducted Inter-Regional Institute Tournament for Badminton, TT, Carrom, Chess, Athletic Meet, Volley Ball and Bridge.
- CMPDI successfully hosted Inter Coal Company Bridge Tournament for the period from 19th to 21st Feb. 2014, in which the host team CMPDI became Champion.

13.4 RAJBHASHA

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

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

"Coal Bed Methane: Ek Swatchh Urja Strot", a book written in Hindi and published by Publication Department (IMS Division), CMPDI has been awarded 2nd prize under Indira Gandhi Rajbhasha Puraskar by Hon. President of India Sri Pranab Mukherjee on 14th September 2013.

14.0 CSR & SUSTAINABILITY ACTIVITIES OF CMPDI (2013-14):

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 partners, clients, civil society groups, Government and non-government organizations, local communities, environment and society at large.

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 underprivileged sections of the society.

There is no one size fit all method for implementing CSR and Sustainability. Each company has its unique characteristic circumstances that affects as to how it views its social responsibility, environmental & social challenges and also to address stakeholders demand for greater transparency, accountability and responsibility. 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 and ultimately add value not just for shareholders, but also for their entire stakeholders, for the community and others who are affected by the Company's operations.

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 has initiated its CSR & Sustainability activities in following areas during 2013-14:-

[a] Infrastructural Support :

Several infrastructural projects in the form of school buildings, Community Hall, Community

Mandap, and Public Toilets etc. have been sponsored by CMPDI in various locations:

 Construction of three classrooms, toilets for boys and girls, repair work for windows, doors and distempering and painting of existing building at Birsa School, Hathiagonda and construction of concrete road at Patragonda village under CSR scheme of CMPDIL. [Note: The work included construction of 2 classrooms in 1st floor of Birsa High School, Hathiagonda under MoU which was completed on 15.02.2014.]



2. Repairing & maintenance of old dilapidated well and construction of bathing platform at Chapar Village by CMPDI, Regional Institute-III, Ranchi.



 Constructions of Passenger shed (Yaatri Pratikshalaya) at Ujheni Village Dist. Singrauli (MP) by CMPDI, Regional Institute-VI, Singrauli.



4. Construction of shed with CGI shed, bathing place and toilet complex at Hesalong village by CMPDI, Regional Institute-III, Ranchi.



[b] Education:

Educational support like supply of study materials, benches, uniforms, financial support in the form of scholarship are being provided by CMPDI to many schools.

1 Supply of 10 Nos.of Iron Beds, Uniform and Sweaters for the Blind students of Baje Kishore Netraheen Balika Vidhayala, Bariatu, Ranchi by CMPDI (HQ), Ranchi





2. Supply of 50 sets of Desk-benches for the students of Birsa High School, Hathiagonda, Ranchi by CMPDI, (HQ), Ranchi



3. Supply of 100 sets of Desk-benches for the students of Gondwana Primary School, Gondwana Place, Kanke Road, Ranchi by CMPDI, (HQ), Ranchi



4. Two sets of uniform were provided to 35 students of Asansol Braille Academy, a Unit of Asansol Prevention of Blindness Society, ADDA Industrial Plot, Asansol, Dist. Burdwan (WB). The total expenditure for the work was Rs.39,790.00 (Thirty Nine thousand seven hundred ninty only) by CMPDI, Regional Institute-I, Asansol.





5. Financial assistance of Rs.40,000.00 was provided to Shri Bipradas Chatterjee for publication and distribution of his book "Path Nirdeshika" to local school students free of cost. This book is exclusively framed to develop traffic rules awareness for small kids/children. The said books, sponsored by RI-I, CMPDI, under the CSR & SD activities for the year 2013-14, were distributed to the students of local schools by CMPDI, Regional Institute-I, Asansol.



 Distribution of 40 sets of desk bench has been given to the students of Utkramit Madya Vidyalaya, Mallikdih, Dhanbad by CMPDI, Regional Institute-II, Dhanbad.



7. Distribution of 40 sets of desk bench has been given to the students of Utkramit Madya Vidyalaya, Gopinathdih, Dhanbad by CMPDI, Regional Institute-II, Dhanbad.



8. A cheque for Rs. 34680.00 was handed over to the Gondwana Primary School, Kanke Road, Ranchi towards fees of 17 meritorious & poor students for the year 2013-14 by CMPDI, (HQ), Ranchi.



- 9. 3-seater wooden benches & desks were given to different schools:
 - o Shaskiya Purv Madhymik Vidhyalaya, Vikas Khand Devsar, Dist. Singrauli (MP)
 - o Shaskiya High School Ujheni, Dist. Singrauli (MP)



CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

- 10. Wooden tables & chairs, steel almarahs were given to different schools:
 - o Shaskiya Satelite shala, Golai Basti, Arjun Nagar, Jayant.
 - o Shaskiya Prathmik Pathshala, CWS Vikaskhand, Waidhan
 - o Shaskiya Purv Madhymik Vidhyalaya ,Vill- Itma, Dist.- Singrauli (MP)
 - o Shaskiya Prathmik Pathshala, Vill.- Nawanagar.
 - o Shaskiya Purv Madhymik Vidhyalaya ,Vill- Nawanagar (different schools under Dist.- Singrauli (MP)





[c] Skill /Social Development / Women Empowerment:

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

CSR approved Project "Project Swawalambhi" for employment generation of self-help group for women, adult literacy & child development in Hatma Basti, Kanke Road, Ranchi - 5





[d] Workshop/Seminar

One Workshop and One Seminar have been organized in CMPDI HQ.

- 1 A Workshop titled "Corporate Social Responsibility & Sustainable Development: A Strategy for Inclusive Growth" was held on 22-10-2013. 81 participants were present in this workshop.
- 2 A National Seminar on CSR & Sustainability titled "Caring today for a Better Tomorrow" was held on 22.01.2014. 142 participants were present in this seminar.







3 . Inauguration of Web based Feedback System by CMD Sri A. K. Debnath on 19.02.2014

[e] Sustainability:

Integrated efforts and programs are yielding expected results in sustained development and expansion of Company activities.

1 Installation of Waste Paper Recycling Plant at CMPDI (HQ), Kanke Road, Ranchi under CSR & Sustainability activities for the year 2013-14 by CMPDI (HQ), Ranchi.





- 2 Construction of Rain water Harvesting System at CMPDI colony, Bhubaneswar by CMPDI, Regional Institute-VII, Bhubaneswar
- 3 Energy conservation by replacing conventional lights by LED lights (120 nos.) at CMPDI RI-IV colony, Nagpur by CMPDI, Regional Institute-IV, Nagpur.





[f] Expenditure incurred on CSR & Sustainability account (2013-14):

The expenditure incurred on CSR & sustainability account during 2013-14 was to the tune of Rs. 2.01 crores against the total budget (inclusive of spill over amount of 2012-13) of Rs. 1.82 crores which is around 90% more than that of last year (i.e. 2012-13). The expenditure incurred during 2012-13 was Rs. 1.06 crores only.

15.0 Performance of Memorandum of Understanding of CMPDIL for the year 2013-14.

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 2012-2013, CMPDIL has been graded as Excellent (1.11).

16.0 Activities of Forum of Women in Public Sector (WIPS), CMPDI in the year 2013-14

WIPS, CMPDI (under the aegis of SCOPE) has achieved new heights in contributing to the organizational goals of the company, with the co-operation and blessings of CMPDI Management.

Achievement highlights of WIPS, CMPDI in the year 2013-14

1) On 22.01.13, the Forum hosted a first-ever One-day Seminar for all women employees of CMPDI to celebrate its new found space in the CMPDI official domain and to bring all its women employees including the women working in the CMPDI Headquarters and all its seven regional institutes (RIs), under a common umbrella of the WIPS Forum, CMPDI.



One-day Seminar for all women employees of CMPDI On 22.01.13

- Brought out its first newsletter "Aarohan" for providing a platform of expression for the women employees by way of technical articles, articles of literary interest, current affairs, health awareness and environment related issues.
- The Forum conducted a "Health Awareness and Wellness" session for the working women employees of CMPDI on July 9th, 2013 through its HRD Department at Staff Training College, CMPDI.

"Health Awareness and Wellness" session for the working women employees of CMPDI on July 9th, 2013 4) WIPS, CMPDI hosted the Regional Meet of WIPS for the Eastern Region, 2013 at CMPDI premises, Ranchi on 24th September, 2013 (Tuesday) which was well attended by 230 delegates from various PSUs of the Eastern Region.. The theme for the Meet was: "Endeavour Enterprise Excellence." Philosophy behind . CMPDI won the WIPS "Best Debutant Award" Inhouse Cultural Programme to end the Meet with Tribal Dance of Jharkhand, Bihu Dance of Assam & a Group Song, all performed by WIPS members of CMPDI.

Regional Meet of WIPS, Eastern Region, 2013 at CMPDI premises, Ranchi on 24th September, 2013 (Tuesdayv





- WIPS ER won the "Highest Membership Award" at the WIPS National Meet held at Kolkata on February 11th & 12th, 2014 where CMPDI was the highest contributor
- 6) WIPS, CMPDI networked with other PSUs & PSU banks in Ranchi.
- 7) The Forum organized an "Executive Development Programme" for CMPDI women executives (from HQ and RIs), through HRD at Staff Training College, attended by around 36 executives on 9th & 10th of Dec, 2013 & 11th&12th of Dec, 2013 in 2 groups.

"Executive Development Programme" for CMPDI women executives (from HQ and RIs), through HRD at Staff Training College, attended by around 36 executives on 9th & 10th of Dec, 2013 & 11th&12th of Dec, 2013 in 2 groups





8) 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)

CSR approved Project "Project Swawalambi" for employment generation of self-help group for women, adult literacy & child development in Hatma Basti, Kanke Road, Ranchi (to be facilitated and conducted by WIPS, CMPDI



 Conducting remedial classes for 31 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. Basic study materials and school bags were distributed to these children by CMD, CMPDI, Sri A.K.Debnath, Smt. Nilanjana Debnath.

WIPS meetings held within and outside the company





- 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
- Providing 3 sewing machines to the group of 40 women of "Hatma Mahila Sangharsh Sansthan" and Arranging training for sewing and stitching facilities.
- 9) Members of the Forum have voluntarily adopted girl children in Gondwana School,

(patronised by CMPDI Management) for paymevnt of annual fees and caring for their needs from time to time.

 The Forum celebrated International Woman's Day with the underprivileged children and women of Hatma Basti, beneficiaries of "Project Swawalambi"

17.0 DIRECTOR'S 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.

AUDITORS :

On the advice of the comptroller and Auditor General of India M/s Todi Tulsyan & Co., Chartered Accountants, Patna were appointed as Auditors of the Company for the financial year 2013-14. They were also appointed Tax-Auditors for the year U/S 44 (AB) of the Income- Tax Act, 1961. They were also appointed to audit the compliances of conditions of Corporate Governance and report there on. They were also appointed as MoU Auditors for the year 2013-2014.

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 :

Particulars of employees required under Section 217(2A) of the Companies Act, 1956 (Nil Report), information required under Section 217(1)(e) of the Companies Act, 1956, Comments of the Comptroller & Auditor General of India under section 619 (4) of the Companies Act, 1956, the reports of Statutory Auditor and Management replies, Auditor reports on compliance on Corporate Governance, certification of CEO & CFO and reports on MoU 2013-14 are also annexed to this report.

For and on behalf of the Board of Directors

Sd/-

(A. K. Debnath)

Ranchi

Chairman-cum-Managing Director

Date: 10.06.2014

ANNEXURE TO DIRECTORS' REPORT

Information as required to be given in the Directors' Report under Section 217(1) (e) of the Companies Act, 1956 read with the Companies (Disclosure of Particulars in the Report of Board of Directors) Rules, 1988 regarding conservation of energy, technology absorption and foreign exchange earning and outgo.

A. CONSERVATION OF ENERGY

- (a) Energy Conservation Measures Taken NIL
- (b) Additional Investment and Proposal, if any, being implemented for reduction of Consumption of energy.

Proposal for Installation of LED luminaries for street lighting and new office buildings being constructed in RI 5 and RI 6.

(c) Impact of Measures taken to reduce energy Consumption

Electrical consumption in absolute terms of units is more or less same, but the amount has increased due to increased tariff charges in various States.

The overall impact is being monitored.

Form – A

1 2

Power And Fuel Consumption: (a)

Domestic Consumption

Ι. Power SI. No Particulars

(Amount in ₹) 2013-14 Industrial Consumption/ 27842345.60

25500911.60

Diesel П.

SI.No	Particulars	2013-14
1	Diesel	84835308.204

(B) **Consumption Per Unit**

Ι. Power

SI.No	Particulars	2013-14
1	Meterage Drill	325362
2	Total units Consumed- Kwh- Industrial	3866992.44
3	Total units Consumed- Kwh- Domestic	4180477.31
4	Average rate Per Unit (Rs.) – Industrial	7.2
5	Average rate Per Unit (Rs.) – Domestic	6.1

II. Diesel

(Amount in ₹)

SI.No	Particulars	2013-14
1	Meterage Drill	325362
2	Total units Consumed - Litres	1530222
3	Average rate Per Unit (Rs.)	55.44

FORM B

Form for disclosure of particulars with respect to absorption

RESEARCH AND DEVELOPMENT (R&D)

1. Specific area in which R&D carried out by the Company

Central Mine Planning and Design Institute Limited (CMPDIL) was established on November 1, 1975 as a wholly owned subsidiary of Coal India Ltd. (CIL) to render consultancy services to CIL and its subsidiaries in the areas of coal exploration, mine planning & design, coal beneficiation & utilization, allied engineering services, and human resource development. Subsequently, CMPDI expanded its services to the areas of environmental engineering, information & communication technology, and laboratory & field services.

The Government of India through its Coal Science & Technology (S&T) Plan and Coal India Limited through its R&D Board have launched R&D activities for improvement in production, productivity and safety in coal mines, coal beneficiation and utilization and protection of environment and ecology. Substantial funds are being earmarked annually by the Ministry of Coal and CIL R&D Board to carry out research work on the above subjects in coal and lignite sector.

Standing Scientific Research Committee (SSRC) under the Chairmanship of Secretary (Coal) is the Apex Body to administer coal related research activities and, research grant of Coal India is administered through CIL R&D

Board under the Chairmanship of Chairman, CIL.

Central Mine Planning and Design Institute (CMPDI) is the nodal agency for coordination and monitoring of Coal S&T and CIL R&D projects. These projects are being implemented by various research and academic institutes related to coal and allied industries with active participation of coal and lignite mining companies. CMPDI besides being the nodal agency, a number of research projects have also been implemented /being implemented by CMPDI.

Having state-of-the-art facility and well equipped laboratory facilities etc, CMPDI has been recognised as an in-house Research & Development (R&D) unit from the Department of Science and Industrial Research, Ministry of Science & Technology (S&T), New Delhi.

MoU target 2013-14 in respect of S&T project has been successfully achieved.

2. Benefits derived as a result of the above R&D

Many of these projects have yielded considerable benefits, resulting in operational improvement, safer working conditions, better resource recovery and protection of the 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. Design tools developed specifically for Indian geo-mining conditions are now available for a variety of problems, like underground coal pillar design, analysis of roof cavability and stability of partings between multiple seam workings, prediction of surface subsidence, optimum blast design for various rock conditions, opencast slope stability etc. The findings from some projects, like the study in engineering classification of roof rocks, have led to stipulation by the Directorate - General of Mines Safety (DGMS) that the design procedures developed should be employed for all underground mines while seeking statutory permission to work.

To ensure safety of underground workings significant advances through R&D work have been made for introduction of modern techniques like Ground Penetrating Radar for detection of old unapproachable water logged workings, trial of blind back filling of underground voids has also been made with promising results. Advanced methods like remote sensing for mapping of underground fires have been established as a viable technique.

Further, meaningful studies have been carried out for improvement in coal beneficiation techniques, especially for high ash Indian coals. Significant results have also been obtained from research related to combustion techniques for effective utilisation of high – ash coals. Some of the major projects related to dry beneficiation of coal are also presently being executed by CMPDI in association with other organisations. Notable trials have also been made for revegetation of mined out areas, use of fly ash and production of humic acid from lignite for use as fertilizer etc.

Aresearch project related to mine communication has been implemented at one of the underground mine of CCL. This consists of Through-The-Earth (TTE) one way messaging system and two way voice communication and tracking system. The integrated system is presently being used with digital wireless telephones in Bhurkunda mine of CCL. Now one can make and receive a telephone call from underground.

3. Future plan of action

For enhancing the quantum of research work

needed to address the complexity of operations of the coal industry and wider involvement of research organizations including private organizations with adequate infrastructure and expertise, CMPDI on behalf of Ministry of Coal has invited Expression of Interest (EoI) for areas related to mining methods, strata control, and mine safety, coal bed methane(CBM), etc., for funding under S&T Grant of Ministry of Coal.

Future R&D efforts will address areas like liquidation of developed pillar in underground mines, pit and dump slope stability in opencast mines, hydraulic mining, high wall mining, Early warning systems for roof prediction and dump & highwall failures, assessment of shale gas potentiality in Indian coal fields, CBM reserves estimation, CBM from fugitive emissions from opencast mines, in-situ coal gasification, coal liquefaction, and development of predictive models for air quality and pollution etc.

In another research project, self advancing goaf edge (mobile) chock type supports of 2x240 Tonne have been developed and field trial is under progress at Bastacola mine of BCCL.

Another important research project, Shale gas potentiality evaluation of Damodar basin of India is also being executed.

Emphasis has been put on "coal to oil" conversion technology. The prevailing high prices level of crude and petroleum products warrants a fresh look at coal liquefaction process. The rising costs and issues related to adequate and assured supply of oil from overseas have a significant bearing on both the national economy and energy security. One important project for development of indigenous catalyst for coal – to - liquid (CTL) is under implementation with an objective to eliminate the dependency on technology provider for supply of catalysts for future CTL plants likely to be established in India.

4. Expenditure on R&D during 2013-14:

- (a) Capital & (b) Revenue Rs. 22.73 Cr.
- (c) Total: Rs. 22.73 Cr.

TECHNOLOGY ABSORPTION, ADAPTATION AND INNOVATION

1. Efforts, in brief, made towards technology absorption, adaptation and innovation.

The main 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.

2. Benefits derived as a result of above efforts, e.g product improvement, cost reduction, product development, import substitution etc.

Notable advances have been made through R&D efforts in coal exploration techniques, introduction of mining methods like "blasting gallery and cable bolting" for recovery of coal in thick seams and shortwall mining at SECL with an output of more than 1000T per day being replicated now in more panels. "Controlled blasting" has also been introduced through R&D and is being used now for removal of overburden rocks and coal in opencast mines as close as to 50m from surface structures successfully. More than 155 Mt of coal so far has been extracted in more than 134 mines by introduction of "Controlled Blasting" which otherwise would have been remained sterilized.

A quantified assessment of roof strata called Rock Mass Rating (RMR) developed under R&D is now being used for designing support in underground mines. So far, over 859 districts in about 273 underground coal mines have been covered.

A number of research projects have yielded considerable gains in the area of land reclamation after mining and utilization of fly ash. Humic acid from lignite as a fertilizer in agriculture has shown 35% increase of yield in case of capsicum, tomato crops and also substantial increase in other crops. This product has been commercialized and is being used by the farmers in Tamil Nadu, Andhra Pradesh, Karnataka and Kerala.

A multi institutional funded (UNDP/GEF, CIL

and MoC) demonstration research project on "Coal Bed Methane Recovery and Commercial Utilization" has successfully concluded at Moonidih underground project, BCCL with encouraging results. The gas recovered under this project is almost 98% pure methane, which is being utilized to run gas based generators to supply electricity to Moonidih mine residential colony.

Significant improvement has been achieved in both "coking and non-coking coal washing" and "recovery of fine coals". Encouraging results have also been obtained from research related to "combustion techniques" for effective utilization of high-ash coals. Major R&D projects on fine coal beneficiation are under implementation through CIL R&D funding.

A number of research projects have been taken up in the area of environment and ecology to integrate coal mining activities with ecological conservation and hazards due to mining. The findings of these research projects have made a significant impact on the industry resulting in the adoption of proper environment control. Efforts to delineate unstable working below Howara Dhanbad Railway line (Eastern Railway Main Line), stability analysis by numerical modelling and possible remedial measures for stabilization of railway line have been made successfully with CIL R&D funds. Programmable Logic Control(PLC) based monitoring & control system has been successfully designed, developed and introduced in an underground mine of CIL duly approved by DGMS through another research project funded by CIL R&D Board.

New areas, like application of robotics and latest two-way communication systems for rescuing miners trapped in underground mines, numerical models to address strata control problems for appropriate solution, treatment of acid mine water generated in Indian coal mines, development of integrated dumper collision avoidance system for opencast mines, assessment of shale gas Gondwana basin with special reference to CIL areas, design, development and demonstration a Micro-Grid system for optimization and control of multiple source of power supply, development of guidelines to predict distance between toe of the Shovel-Dumper dump and that of Dragline dump, research and development on efficient energy management pilot study ,coal bed methane(CBM) reserve estimation of Indian coalfields and development of an on-line coal; washability analyzer are being addressed through on-going research projects.

An indigenous tool for carrying out the job of random sampling and testing of explosives and accessories for mines of CIL has been developed by CMPDI in association with IIT, Kharagpur through CIL R&D project. After completion of an R&D project on "Effective utilization of low rank and low volatile high rank Indian coking coals for blast furnace (BF) coke making" CMPDI in association with RDCIS (SAIL), Ranchi has concluded that Utilization of Low Volatile High Rank(LVHR) and Low Rank High Volatile(LRHV) coals after proper beneficiation in blend can produce good quality coke and reduce import of coal to the tune of 4 Million tones coal per annum. Based on different geo-engineering parameters and site specific computerized model using limit equilibrium method, different types of dragline dump profiles

were designed by BIT, Mesra in association with CMPDI through CIL R&D funding. Based on the study of individual dragline operated opencast coal mine, a general guideline has also been prepared, which will help in future design of dragline dump and will help in maintaining safety and economics of all dragline operated opencast mines of CIL.

A research project under S&T grant of Ministry of Coal regarding delineation of barrier thickness against waterlogged workings in underground mines has been completed. In this project, a Ground Penetrating Radar (GPR) was developed. After making field trials it was observed that the GPR developed is capable of detecting anomaly in barrier thickness up to a distance of 60m.

In case of imported technology (Imported during the last 5 years reckoned from the beginning of the financial year) following information is not related to CIL R&D projects.

- (i) Technology Imported
- (ii) Year of Import
- (iii) Has technology been fully absorbed?
- (iv) If fully absorbed, area where this has not taken place, reasons therefore and future plans of action

C. Foreign Exchange Earning And Outgo

SI.No.	Particulars	2013-14
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 lakh)	Nil
	(b) Total foreign exchange used (Rs.in lakh)	224
	(Revenue 159+ Capital Goods 65)	
ANNEXURE FORMING PART OF DIRECTORS' REPORT FOR THE YEAR ENDED 31.03.2014 INFORMATION AS PER SECTION 217(2A) OF THE COMPANIES ACT, 1956 READ WITH COMPANIES (PARTICULARS OF EMPLOYEES) RULES 1975.

SI. No.	Name	Designation / Nature of work	Remuneration During the year (Rs.)	Nature of employment Permanent / temporary	Qualification	Experience (yrs.)	Date of commen-cement	As on 31st Mar 2014 (Yrs)	Last employment held
1	2	3	4	5	6	7	8	9	10
(a)	Employ	yed through o		-	eview and were of not less than Nil	-		ation for tha	t financial
(b)	· ·				review and we gregate was no Nil		•		

CEO And CFO Certification

То

The Board of Directors

Central Mine Planning & Design Institute Limited

We, A. K. Debnath, Chairman-cum-Managing Director and A. K. Soni, General Manager (Finance), responsible for the finance function certify that:

- a. We have reviewed financial statements and the cash flow statement for the year ended 31st March, 2014 and that to the best of our knowledge and belief :
- i. these statements do not contain any materially untrue statement or omit any material fact or contain statements that might be misleading;
- ii. these statements together present a true and fair view of the company's affairs and are in compliance with existing accounting standards, applicable laws and regulations.
- b. To the best of our knowledge and belief, no transaction entered into by the company during the year ended 31st March, 2014 are fraudulent, illegal or violative of the company's code of conduct.
- c. We accept responsibility for establishing and maintaining internal controls for financial reporting and we have evaluated the effectiveness of internal control systems of the company pertaining to financial reporting and we have disclosed to the auditors and the Audit Committee, deficiencies in the design or operation of such internal controls, if any, of which they are aware and the steps they have taken or proposed to take to rectify these deficiencies.
- d. We have indicated to the auditors and the Audit Committee
 - i. There has not been any significant changes in internal control over financial reporting during the quarter under reference;
 - 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.

Sd/-

(A. K. Soni) General Manager (Finance) Sd/-

(A. K. Debnath) Chairman-cum-Managing Director

Auditor's Report on Compliance of conditions of Corporate Governance

TODI TULSYAN & CO.

CHARTERED ACCOUNTANTS

602, LUV KUSH TOWER, EXHIBITION ROAD, PATNA-800001 Phone: 2320211/2320056 (o) Fax: 0612 – 2320056 Email: ttco@sify.com

To,

The Members, Central Mine Planning & Design Institutes Ltd.

- 1. We have examined the compliance of conditions of Corporate Governance by Central Mine Planning & Design Institutes Ltd., Ranchi for the year ended 31st March, 2014 although clause 49 A of the Listing Agreement is not applicable to the company.
- 2. The compliance of conditions of Corporate Governance is the responsibility of the management of the company. Our examination was limited to procedures and implementation thereof, adopted by the company for ensuring the compliance of conditions of Corporate Governance. It is neither an audit nor an expression of opinion on the financial statement of the company.
- 3. In our opinion and to the best of our information and according to the explanations given to us and the representation made by the Directors and the Management, we certify that the company has complied with of conditions of Corporate Governance except:
 - a. that the Board of the company comprising of non-executive directors not less than fifty percent of the Board Members and comprising at least one-third of the Board Members as Independent Directors as on 31.03.2014.
 - b. that the Audit Committee of the Board of the company comprising of Independent Directors not less than two-thirds of the members of the Audit Committee as on 31.03.2014.
- 4. 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 TODI TULSYAN & CO. CHARTERED ACCOUNTANTS FRN: 002180C

Date : 10.05.2014 Place : Ranchi Sd/-(Sushil Kumar Tulsyan) Partner Mermbership No. 075899

		STATUTORY AUDITORS' REPORT AND REPLIES OF	MANAGEMENT
		AUDITORS' REPORT	MANAGEMENTS' REPLY
То			
	lembers		
Centr	ai mine i	Planning and Design Institute Limited	
1.	and De at 31s	ave audited the accompanying financial statements of Central Mine Planning esign Institute Limited ("The Company"), which comprise the Balance Sheet as t March 2014, Statement of Profit and Loss and Cash Flow Statement for the en ended, and a summary of significant accounting policies and other explanatory ation.	
2.	give a the Co Act, 19 of the I This re control	anagement is responsible for the preparation of these financial statements that true and fair view of the financial position, financial performance and cash flows of mpany in accordance with the Accounting Standards notified under the Companies 156 ("the Act") read with the General Circular 15/2013 dated 13th September 2013 Ministry of Corporate Affairs in respect of section 133 of the Companies Act, 2013. esponsibility includes the design, implementation and maintenance of internal relevant to the preparation and presentation of the financial statements that give a d fair view and are free from material misstatement, whether due to fraud or error.	
3.	audit. by the compl	esponsibility is to express an opinion on these financial statements based on our We conducted our audit in accordance with the Standards on Auditing issued a Institute of Chartered Accountants of India. Those Standards require that we y with ethical requirements and plan and perform the audit to obtain reasonable ance about whether the financial statements are free from material misstatement.	
4.	and d audito financ the au prese appro the ef appro estima	dit involves performing procedures to obtain audit evidence about the amounts isclosures in the financial statements. The procedures selected depend on the r's judgment, including the assessment of the risks of material misstatement of the ial statements, whether due to fraud or error. In making those risk assessments, uditor considers internal control relevant to the Company's preparation and fair intation of the financial statements in order to design audit procedures that are priate in the circumstances but not for the purpose of expressing an opinion on fectiveness of the entity's internal control. An audit also includes evaluating the priateness of accounting policies used and the reasonableness of the accounting ates made by management, as well as evaluating the overall presentation of the ial statements.	
5.		elieve that the audit evidence we have obtained is sufficient and appropriate to le a basis for our audit opinion.	
6.	to us, so rec	opinion and to the best of our information and according to the explanations given the financial statements give the information required by the Act in the manner quired and give a true and fair view in conformity with the accounting principles ally accepted in India:	
	(a)	in the case of the Balance Sheet, of the state of affairs of the Company as at March 31, 2014;	
	(b)	in the case of the Statement of Profit and Loss, of the profit for the year ended on that date; and	
	(C)	in the case of the Cash Flow Statement, of the cash flows for the year ended on that date.	
7.	Centra	quired by the Companies (Auditor's Report) Order, 2003 ("the Order") issued by the al Government of India in terms of sub-section (4A) of section 227 of the Act, we give Annexure a statement on the matters specified in paragraphs 4 and 5 of the Order.	

	STATUTORY AU	DITORS' REPORT AND REPLIES OF	MANAGEMENT
	AUDIT	ORS' REPORT	MANAGEMENTS' REPLY
that :- Balance advance	es of Sundry Debtors are yes and sundry creditors are	et to be confirmed and also balances in loans and also not confirmed.	Reconciliation of Sundry Debtors with CIL Subsidiaries is under progress. Letters have already been issued for confirmation of balance in Debtors (Other than CIL Subsidiaries).
•	,	ine Act, subject to our comments in paragraph (o)	
(a)			
(b)			
(C)			
(d)	Cash Flow Statement con the Companies Act, 1956 September 2013 of the I	mply with the Accounting Standards notified under s read with the General Circular 15/2013 dated 13 Ministry of Corporate Affairs in respect of section	
(e)	Central Government; the	provisions of Section 274(1) (g) of the Companies	
(f)	rate at which the cess is Act, 1956 nor has it issu	to be paid under section 441A of the Companies ed any Rules under the said section, prescribing	
		FOR TODI TULSYAN & CO. CHARTERED ACCOUNTANTS FRN – 002180C	
		Sd/-	
		(C.A. Sushil Kumar Tulsyan)	
Place Dated	: Ranchi : 10.05.2013	Partner (Membership No. 075899)	
	that :- Balance advance (a) (b) (c) (d) (e) (f)	Further to our comments in the Anthat :- Balances of Sundry Debtors are y advances and sundry creditors are As required by section 227(3) of tabove, we report that: (a) we have obtained all the of our knowledge and be (b) in our opinion proper bod by the Company so far at dealt with by this Report (c) the Balance Sheet, State dealt with by this Report (d) In our opinion, the Balance Cash Flow Statement cout the Companies Act, 1956 September 2013 of the I 133 of the Companies Act (e) In view of Notification N Central Government; the Act, 1956 are not applicated at which the cess is Act, 1956 nor has it issue the manner in which such by the Company. Place : Ranchi	Balances of Sundry Debtors are yet to be confirmed and also balances in loans and advances and sundry creditors are also not confirmed. As required by section 227(3) of the Act, subject to our comments in paragraph (8) above, we report that: (a) we have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit; (b) in our opinion proper books of account as required by law have been kept by the Company so far as appears from our examination of those books; (c) the Balance Sheet, Statement of Profit and Loss, and Cash Flow Statement dealt with by this Report are in agreement with the books of account; (d) In our opinion, the Balance Sheet, the Statement of Profit and Loss, and the Cash Flow Statement comply with the Accounting Standards notified under the Companies Act, 1956 read with the General Circular 15/2013 dated 13 September 2013 of the Ministry of Corporate Affairs in respect of section 133 of the Companies Act, 2013. (e) In view of Notification No. GSR 829(E) dated 21.10.2003 issued by the Central Government; the provisions of Section 274(1) (g) of the Companies Act, 1956 nor has it issued any Rules under the said section, prescribing the manner in which such cess is to be paid under section 41A of the Companies Act, 1956 nor has it issued any Rules under the said section, prescribing the manner in which such cess is to be paid, no cess is due and payable by the Company. FOR TODI TULSYAN & CO. CHARTERED ACCOUNTANTS FRN – 002180C Sd/- (C.A. Sushil Kumar Tulsyan)

		STATUTORY AUDITORS' REPORT AND REPLIES OF	MANAGEMENT
	_	AUDITORS' REPORT	MANAGEMENTS' REPLY
		ANNEXURE TO THE AUDITOR'S REPORT	
		paragraph 7 of our report of even date on the accounts of Central Mine Planning stitute Limited for the year ended 31st March, 2014)	
i)	In resp	ect of Fixed Assets:	
	(a)	The Company has generally maintained proper records of fixed assets showing full particulars, including quantitative details and situation of fixed assets.	No Comments
	(b)	A major portion of the high value assets have been physically verified by the management in accordance with a phased program of verification adopted by the Company. As explained to us, no material discrepancies were noticed on such verification.	No Comments
	(C)	In our opinion, the Company has not disposed off a substantial part of the fixed assets during the year and the going concern status of the Company has not been affected.	No Comments
ii)	In resp	ect of its inventories	
	(a)	The stock of high value stores and spare parts has been physically verified by the management during the year. Some low value items have also been verified on test basis. In our opinion, the frequency of verification is reasonable.	No Comments
	(b)	In our opinion, and according to the information and explanations given to us, the procedure of physical verification of stock followed by the management is reasonable and adequate in relation to the size of the Company and the nature of its business.	No Comments
	(c)	The Company has maintained proper records of its inventories. As explained to us, the discrepancies noticed on physical verification of stock as compared to book records were not material and have been properly dealt with in the books of accounts.	No Comments
iii)	compa of the	ormed, the Company has not granted/taken any loans, secured or unsecured to nies, firms or other parties covered in the register maintained under section 301 Companies Act, 1956. Accordingly, paragraphs (iii) (b), (c), (d), (f) and (g) of the anies (Auditors Report) Order 2003 (as amended) are not applicable.	No Comments
iv)	of the assets	opinion, there is an adequate internal control system commensurate with the size Company and the nature of its business, for the purchase of inventory and fixed and for sale of goods and services. During the course of our audit, we have not ed any major weakness in internal control system.	No Comments
V)	In resp	ect of transactions covered under Section 301 of The Companies Act, 1956:-	
	a)	In our opinion and according to the information and explanations given to us, there were no transactions made in pursuance of contracts or arrangements that needed to be entered in the register maintained under Section 301.	No Comments
	b)	In our opinion and according to the information and explanations given to us, there were no transactions made in pursuance of contracts or arrangements entered in the register maintained under Section 301 and exceeding Rupees five lakhs at prices which are not reasonable having regard to the prevailing market prices at the relevant time.	No Comments
vi)		ompany has not accepted any deposits from the public within the meaning of n 58A and 58AA or any other relevant provision of the Act.	No Comments

		STATI	JTORY A	UDITOR	S' REPORT AN	D REPLIES OF	
			AUD	ITORS' REF	PORT		MANAGEMENTS' REPLY
vii)	for inter	nal audit of I	Headquarter	and Region	Chartered Accountant al Institutes. In our op with its size and nature	inion, the Company	No Comments
viii)					rnment has not prescrib ne Companies Act, 195		No Comments
ix)	In respe	ect of statutor	y dues:				
		in depositing education at tax, customs authorities. Insurance S information a respect of th period of mo	g undispute nd protectio a duty, excise According to iccheme is r and explanat e aforesaid re than six n	d statutory n fund, inco e duty, cess o the expla not applicab tions given to dues were o nonths from	pany, the Company is dues such as provide ome tax, sales tax, we and any other dues we nations given to us, le to the Company. o us, no undisputed an outstanding as at 31st the date they became	ent fund, investor realth tax, service ith the appropriate Employees State According to the mounts payable in March, 2014 for a payable.	No Comments
	,	has paid in p	rotest but no	ot recognized	es, and against some of as liability, that have r re appropriate authoriti	not been deposited	
	SI. No.	Name of Statute	Nature of Dues	Amount (₹ in Lakh)	F.Y. to which the amount relates	Forum where Dispute is Pending	No Comments
	1.	Service Tax	Service Tax	40.24	1996-97	Service Tax Tribunal, Kolkata	
	2.	Service Tax	Service Tax	505.53	1998-99, 1999-00, 2000-01,2001-02, 2002-03	CESTAT, Kolkata	
	3.	Sales Tax Act	Entry Tax	20.97	2001-02	Sales Tax Authority	
	4.	Income Tax Act	Income tax	244.43	1992-93, 1994-95, 1995-96, 1996-97, 2005-06, 2006-07	ITAT, Ranchi	
	5.	Income Tax Act	Income tax	1968.83	2007-08, 2008-09	CIT (A), Ranchi,	
	6.	Income Tax Act	Income tax	16.30	2009-10	CIT (A), Ranchi,	
x)	incurred		sses from op	erating activ	as at 31st March 201 ities during the financia ial year		No Comments
xi)					s given to us, we are of , banks or debenture l		No Comments
xii)	any loar				given to us, the Comp ty by way of pledge of		No Comments
xiii)		mpany is not CARO is not			tual benefit fund/sociel ny.	ty. Therefore, clause	No Comments
xiv)		pinion the C er investmen		ot dealing o	r trading in shares, se	curities. debentures	No Comments
xv)					n given to us, the Con banks or financial inst		No Comments

	STATUTORY	AUDITORS' REPORT AND REPLIES OF	MANAGEMENT
	AL	IDITORS' REPORT	MANAGEMENTS' REPLY
xvi)	The Company has not raised	any term loans during the year.	No Comments
xvii)		to the explanations given to us, the Company has not ad used it for long term purposes or vice versa.	No Comments
xviii)		by has not made any preferential allotment of shares to ed in the register maintained under Section 301 of The	No Comments
xix)	The Company has not issued	any debenture during the year.	No Comments
xx)	The Company has not raised	any money by public issue during the year.	No Comments
xxi)		nation received from the management, no fraud on or by d or reported during the course of our audit.	No Comments
		FOR TODI TULSYAN & CO. CHARTERED ACCOUNTANTS FRN – 002180C	
		Sd/-	
		(C.A. Sushil Kumar Tulsyan)	
	Place : Ranchi	Partner	
	Dated : 10.05.2013	(Membership No. 075899)	

Comments of the Comptroller & Auditor General of India

Comments of the Comptroller & Auditor General of India Under Section 619 (4) of the companies Act, 1956 on the accounts of Central Mine Planning & Design Institute Limited for the year ended 31st March 2014.

The preparation of financial statements of Central Mine Planning & Design Institute Limited for the year ended 31 March 2014in accordance with the financial reporting framework prescribed under the Companies Act, 1956 is the responsibility of the management of the company. The statutory auditors appointed by the Comptroller and Auditor General of India under Section 619(2) of the Companies Act, 1956 are responsible for expressing opinion on these financial statements under section 227 of the Companies Act, 1956 based on independent audit in accordance with the standards on auditing prescribed by their professional body the Institute of Chartered Accountants of India. This is stated to have been done by them vide their Audit Report dated 10.05.2014.

I, on the behalf of the Comptroller and Auditor General of India, have conducted a supplementary audit under section 619(3) (b) of the Companies Act, 1956 of the financial statements of Central Mine Planning & Design Institute Limited, Ranchi for the year ended 31 March 2014. 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 comments upon or supplement to the Statutory Auditors' Report under section 619(4) of the Companies Act, 1956.

For and on behalf of the Board of Directors Comptroller & Auditor General of India

Sd/

(Yashodhara Ray Chaudhuri) Principal Director of Commercial Audit & Ex-officio MAB – II, Kolkata-20

Place : Kolkata Dated : 03.06.2014

Report of Auditors on Memorandum of Understanding

TODI TULSYAN & CO. CHARTERED ACCOUNTANTS

602, LUV KUSH TOWER, EXHIBITION ROAD, PATNA – 800 001 Phone: 2320211 / 2320056 (0) Fax: 0612-2320056 E-mail : ttco@sify.com

To,

Central Mine Planning & Design Institute Ltd. Gondwana Place, Kanke Road, Ranchi

We have audited attached actual performance of financial and dynamic parameters vis-à-vis target in Memorandum of Understanding (MoU) for the year 2013-14 in respect of Central Mine Planning & Design Institute Ltd. as per the information and explanation produced to us by the Company, we report that -

- 1. The achievement stated in attached Performance Evaluation Sheet with respect to Financial and Dynamic Parameters are calculated in terms of guidelines for MoU for the year 2013-14 issued by the Ministry of Heavy Industries & Public Enterprises (MoU Division), Government of India.
- 2. As per MoU signed with DPE, the composite score arrived at in performance evaluation sheet (Annexure-III) is 1.520 (Very good) and as per revise target noted by the Board of the Company, the composite score arrived in performance evaluation sheet (Annexure-IIIA) is 1.259 (Excellent).
- 3. The achievement stated against Financial and Dynamic Parameters are ratified from the documentary evidence, records maintained and produced before us for our verification, stated in respective parameters are correct to the best of our knowledge.

FOR TODY TULSYAN & CO. CHARTERED ACCOUNTANTS FRN: 002180C

Place : Ranchi Dated : 09.06.2014 Sd/

(Sushik Kumra Tulsyan) Partner

ANNEXURE III

		Evaluation Criteria	Unit	Weight (in %)			MoU Target			Means of verification	Performance	Score
					Excellent	Very Good	Good	Fair	Poor		Actual	
					-	2	3	4	5			
လ	tatic	Static / Financial Parameters								Annual Report		
1.5	(a)	Financial Indicators - Profit related ratios	-									
		(i) Gross Margin / Gross Sales	%	10	5.50	5.40	5.08	4.77	4.49		6.81	0.100
		(ii) Operating turnover / Employee	Rs. Cr	12	0.2311	0.2258	0.2123	0.1995	0.1875		0.2063	0.416
12	(q)	Financial Indicators - Size related	-									
<u> </u>		(i) Gross Margin	Rs. Cr	8	40.04	39.57	37.59	35.71	33.92		44.08	0.080
		(ii) Gross Sales (Excl. service tax)	Rs. Cr	4	750.51	733.38	696.71	661.88	628.78		647.43	0.177
\sim	(c)	Financial Returns- Productivity related	_									
		(i) PBDIT / Employee	Rs. Cr	7	0.0123	0.0122	0.0115	0.0108	0.0101		0.014	0.070
		(ii) Added Value / Gross Sales	%	6	2.54	2.53	2.38	2.24	2.10		3.56	060.0
		Sub Total		50								0.933
	ynan	2 Dynamic Parameters										
	(a)	Human Resource Management		5								0.057
		(i) HRM performance as per DPE Guideline		1		Enclos	Enclosed as Annexure XIV	Ire XIV				0.017
		(ii) Certified Training in Project Management	No of Executives	-	25	20	15	10	5	Independent HR Auditor	25	0.010
		(iii) Certified Training in Contract Management	No of Executives	-	15	12	6	9	e		15	0.010
	•	(iv) Formal Training in Environment, Forest N Management and Land Acquisition	Forest No of Executives	-	10	8	9	4	2		1	0.010
		(v) Formal Training in Risk Management	No of Executives	-	2	Ļ					2	0.010
<u> </u>	(q)	R & D / New initiatives		5		Enclo	Enclosed as Annexure XI	ure XII		Independent R&D Advisory Committee Report /Annual Report		0.050
	(c)	Corporate Social Responsibility and Sustainable Develo	lopment	8		Enclo	Enclosed as Annexure XI	ure XI		Independent Expert Report / Annual Report		0.080
		Sub Total		18								0.187

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

Sd/-GM (Finance)

Sd/-Satutory Auditor

Sd/-HoD (TS)

MEMORANDUM OF UNDERSTANDING - 20013-14	Central Mine Planning & Design Institute Ltd. (CMDI)
	SUBSIDIARY : Central M

ANNEXURE III

	Evaluation Criteria	Unit	Weight			MoU Target			Means of verification	Performance	Score
			(in %)	Excellent	Very Good	Good	Fair	Poor		Actual	
				-	2	ę	4	ß			
SC	Sector Specific Parameters:										
Ξ	Drilling	000 Meters		900.006	850.00	799.00	751.06	706.00	Annual Report	696.84	
	(ia) Departmental	000 Meters	2	285.00	280.00	263.20	247.41	232.56		325.36	0.020
	(ib) Outsourced	000 Meters	2	615.00	570.00	535.80	503.65	473.43		371.48	0.100
1	Average Drilling Productivity	meter/drill/month	2	440.00	435.00	428.00	422.00	416.00		487	0.020
	Geological Reports	No.	9	14	13	12	÷	10		15	090.0
$\overline{\mathbf{S}}$	(iv) Project Reports	No.	9	26	25	24	23	22		26	090.0
(v)	Other Reports	.oN	4	126	123	117	111	106		167	0.040
(vi)	EIA/EMP (including Form-I)	.oN	4	32	31	67	72	25		40	0.040
) I I I	(vii) Check measurement of overburden removed in Opencast mines of CIL subsidiaries (No. of Mines including outsourcing patches)	No.	2	64	63	60	57	54		141	0.020
1 🗐	(viii) Consultancy work (other than CIL)	Rs. Crore	2	22.00	20.90	19.86	18.86	17.92		23.35	0.020
(ix)	Preparation of Risk Management Plan	YES / NO	1	YES				NO		YES	0.010
(X)	Compliance with AS15 (Accounting Standard 15)	Month	1	Sep.'13	0ct.'13	Nov.'13	Dec.'13	Jan.'14		Apr.'13	0.010
	Sub Total		32								0.400
	Grand Total		100								1.520

Sd/-HoD (TS)

Sd/-GM (Finance)

Sd/-Satutory Auditor

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Revvised target noted by Board of the Company and calculated as per the not 3 of Ann.III of the MOU dodument

BS	IUIAF	SUBSIDIARY : Central Mine Planning & Design institute Ltd. (CMDI)	aight mathematical	-ru. (C	ואובון					-		
1		Evaluation Criteria	Unit	Weight (in %)			MoU Target			Means of verification Performance	Performance	e Score
					Excellent	Very Good	Good	Fair	Poor		Actual	
				1	-	2	e	4	5			
at	ic / Fina	Static / Financial Parameters								Annual Report		
(a)	Finan	Financial Indicators - Profit related ratios	-									
	Ξ	Gross Margin / Gross Sales	%	9	5.93	5.90	5.55	5.21	4.90		6.81	0.100
	۱	Operating turnover / Employee	Rs. Cr	12	0.2142	0.2094	0.1968	0.1850	0.1739		0.2063	0.416
(q)	Finar	Financial Indicators - Size related										
1	Ξ	Gross Margin	Rs. Cr	8	41.28	40.13	38.12	36.22	34.41		44.08	0.080
1	<u> </u>	Gross Sales (Excl. service tax)	Rs. Cr	4	695.85	680.06	646.06	613.75	583.07		647.43	0.177
(C)		Financial Returns- Productivity related	_									
1	Ξ	PBDIT / Employee	Rs. Cr	2	0.0127	0.0124	0.0117	0.0110	0.0103		0.014	0.070
1	<u>(</u>	Added Value / Gross Sales	%	6	2.91	2.81	2.64	2.48	2.33	_	3.56	0.090
		Sub Total		50								0.933
15	amic Pe	2 Dynamic Parameters										
a l	Hum	(a) Human Resource Management		5								0.057
	Ξ	HRM performance as per DPE Guideline		-		Enclos	Enclosed as Annexure XIV	ure XIV				0.017
	(ii)	Certified Training in Project Management	No of Executives	-	25	20	15	10	2	Independent HR Auditor	25	0.010
	(iii)	Certified Training in Contract Management	No of Executives	-	15	12	6	9	3		15	0.010
	(iv)	Formal Training in Environment, Forest Management and Land Acquisition	Forest No of Executives	-	10	8	9	4	2		11	0.010
	Ś	Formal Training in Risk Management	No of Executives	-	2	-					2	0.010
1 - 1	(b) R&I	R & D / New initiatives		പ		Enclos	Enclosed as Annexure XII	ure XII		Independent R&D Advisory Committee Report /Annual Report		0.050
	(c) Corpo	Corporate Social Responsibility and Sustainable Development	slopment	ω		Enclos	Enclosed as Annexure XI	ure XI		Independent Expert Report / Annual Report		0.080
1		Sub Total		18								0.187
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CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

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Sd/-Satutory Auditor

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SUBSIDIARY : Central Mine Planning & Design Institute Ltd. (CMDI)

ANNEXURE III-A

3 Sector Specific Parameters: (i) Drilling (i) Drilling (ii) Drinuction (ii) Doutsourced (iii) Average Drilling Productivity (iii) Average Drilling Productivity (iv) Project Reports (iv) Project Reports (v) Other Reports (vi) Check measurement of overburden (vi) Check measurement of overburden (vii) Check measurement of overburden (vii) Check measurement of Overburden (vii) Consultancy work (other than ClL) (vii) Consultancy work (other than ClL) (vii) Consultancy work (other than ClL) (vii) Preparation of Risk Management Plan			;			under an and					
Sector (i) (ii) (i) (iv) (v) (v) (iv) (v) (v)			- (% ui)	Excellent	Very Good	Good	Fair	Poor		Actual	
Sector (i) (i)<				-	2	e	4	5			
(i) Drilling (ia) Departmental (ib) Outsourced (ib) Average Drilling Pro (ii) Average Drilling Pro (iii) Geological Reports (iv) Project Reports (v) Other Reports (vi) Other Reports (vi) Dencast mines of C (vii) Opencast mines of C (viii) Consultancy work (ot (viii) Preparation of Risk											
(ia) Departmental (ib) Outsourced (ii) Average Drilling Prov (iii) Geological Reports (iv) Project Reports (iv) Driher Reports (vi) EIA/EMP (including F (vii) Check maasurement (vii) Check masurement (vii) Check masurement (viii) Consultancy work (ot (viii) Consultancy work (ot (viii) Preparation of Risk		000 Meters		701.23	656.23	616.86	579.84	545.05	Annual Report	696.84	
(ib) Outsourced (ii) Average Drilling Prov (iii) Geological Reports (iv) Project Reports (iv) Other Reports (vi) ElA/EMP (including Fronts (vi) ElA/EMP (including Fronts (vii) Check measurement (vii) Check mines of C (viii) Consultancy work (ot (viii) Consultancy work (ot (ix) Preparation of Risk		000 Meters	2	285.00	280.00	263.20	247.41	232.56		325.36	0.020
 Average Drilling Prod (ii) Geological Reports (iv) Project Reports (v) Other Reports (vi) EIA/EMP (including Fivil) Check measurement (vii) Check measurement (vii) Consultancy work (ot (vii) Consultancy work (ot (ix) Preparation of Risk 		000 Meters	2	416.23	376.23	353.66	332.44	312.49		371.48	0.044
(iii) Geological Reports (iv) Project Reports (iv) Other Reports (vi) EIA/EMP (including F (vii) Check masurement (viii) Consultancy work (ot (viii) Consultancy work (ot (ix) Preparation of Risk	ductivity	meter/drill/month	2	440.00	435.00	428.00	422.00	416.00		487	0.020
(iv) Project Reports (v) Other Reports (vi) EIA/EMP (including File) (vii) Check measurement (viii) Check measurement (viii) Check measurement (viii) Check measurement (viii) Consultancy work (ot (viii) Consultancy work (ot (ix) Preparation of Risk		No.	9	14	13	12	11	10		15	0.060
 (v) Other Reports (vi) EIA/EMP (including F. (vii) Check measurement (vii) Check mines of Copencast mines of Copencast mines of Copencast mines of Copencing (viii) Consultancy work (ot (viii) Consultancy work (ot (viii) Preparation of Risk 		No.	9	26	25	24	23	22		26	0.060
 (vi) EIA/EMP (including F. (vii) Check measurement (vii) Opencast mines of 0 Opencast mines of 1 including outsourcing (viii) Consultancy work (ot (ix) Preparation of Risk 		No.	4	126	123	117	111	106		167	0.040
(vii) Check measurement Opencast mines of G Including outsourcing including outsourcing (viii) Consultancy work (ot (viii) Consultancy work (ot (viii) Preparation of Risk	orm-l)	No.	4	32	31	29	27	25		40	0.040
(viii) Consultancy work (ot (ix) Preparation of Risk	 (vii) Check measurement of overburden removed in Opencast mines of CIL subsidiaries (No. of Mines including outsourcing patches) 	No.	~	64	63	60	57	54		141	0.020
	ther than CIL)	Rs. Crore	2	22.00	20.90	19.86	18.86	17.92		23.35	0.020
	. Management Plan	YES / NO	-	YES				NO		YES	0.010
(x) Compliance with A	Compliance with AS15 (Accounting Standard 15)	Month	-	Sep.'13	0ct.'13	Nov.'13	Dec.'13	Jan.'14		Apr.'13	0.010
Sub Total			32								0.344
Grand Total			100								1.259

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 1,98,772 metre in outsourced blocks during 2013-14. The MoU between CMPDI & CIL for 2013-14 (refer foot note, sl. no.3) stipulates that at the from the PERT chart attached as Annexure-IIIA and accordingly evaluated. Accordingly, the target (Excellent) has been revised to 416228 metre in respect of outsourced drilling. Drilling losses due to non-availability of forest clearances and adverse law & order problem in coal blocks where departmental drilling was projected as per PERT 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 chart has not been indicated and considered for target reduction as the drilling was carried out subsequently in other blocks. **Note:

2. The targets for financial parameters have accordingly been revised based on the revision in the outsourced drilling target i.e. 416228 metre for Excellent.

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Annexure-XI

	TEMI	PLATE FOR CSR & SD ACTIVITIES	FOR	CSR &	SD A	NCTIVI	TIES			
					Perfo	Performance Rating	ing		Actual	Rating
	Evaluation Criteria	Unit	Weight	Excellent	V Good	Good	Fair	Poor		
e	The adoption of sustainability reporting	g and disclosure procedures and practices	re proced	dures and pr	actices					
(a)	Publication of annual reports on CSR and sustainability of 12-13	Date of Publication	0.50	Feb.'14	Mar.14			No	Completed on 26.02.2014	0.50
(q)	Frequently updated display of information in this regard on the company's website	Duration	0.50	Quarterly	Half- Yearly	Annually			Quarterly	0.50
	Sub Total		1.00							1.00
4	The degree of success in implementing the CSR and sustainability projects they undertake during the year	the CSR and	sustainal	oility project	s they und	dertake duri	ng the ye	ear		
(a)	Construction of two class rooms with amenities in Tribal areas at Ranchi (Project Details enclosed as Annexure-XIA)	Completion date	1.00	1st Mar.14	9th Mar.14	17th Mar.14	24th Mar.14	31st Mar.14	Completed on 15.02.2014	1.00
(q)	Energy conservation by replacing conventional lights at CMPDI, RI-IV (Project Details enclosed as Annexure-XIA)	No. of conventional lights replaced	1.00	80	20	60	20	<50	160 nos. of conventional lights replaced	1.00
	Sub Total		2.00							2.00
വ	The expenditure incurred on CSR and Sustainability activities (vis-à-vis the annual budgetary allocation)(3 % of PAT)	% of 3 % of PAT of 12-13	0.50	Above 75	65 to 75	55 to 65	45 to 55	<45	268% (PAT 12-13: ₹25.05 cr, Exp: ₹2.014 cr)	0.50
9	The effectiveness of the two-tier organisational culture in the process of planning, implementing and monitoring the CSR activities.	sational cultu	re in the	process of f	olanning,	implementi	ng and m	ionitoring		
(a)	The existence of the two tier organisation structure with mandatory membership of an Independent Director on the Board level committee.	YES/ NO	0.20	YES				ON	YES	0.20
b(i)	Board level committee meeting	No. of meetings	0.15	4	ę	7	~		4	0.15
b(ii)	Below Board level meeting	Nos. of meetings	0.15	4	S	2	-		5	0.15
	Sub Total		0.50							0.50
	TOTAL		8.00							8.00

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

Annexure -XII

R&D Performance Target Setting cum Evaluation Template for 2013-14

Project chosen by CMPDI

						Target	value		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
					Pe	rformance	Target, in 9	%	
SI. No.	Project Chosen	Performance Indicator	Weigh- tage	Excellent	Very Good	Good	Fair	Poor	Actual# (Apr'13-
2.1	Investigations of Bolt Behaviour in	Knowledge Generation/	1.00	(100%) If report pre	(80%) eparation is	(60%) completed	(40%) by:	(20%)	Mar'14)
	Development and	dissemination		14 th	31 st Dec.	15 th	31 st	15 th	18 th
	Depillaring Panels under			Dec.13	13	Jan. 14	Jan.14	Feb.14	Nov.13
	Blast Induced Dynamic Loading.			Weightage	allotted				
	Loading.			1.0	0.8	0.6	0.4	0.2	1.0
2.2	Indigenous development	Equipment/	1.00	lf	system fitr	ment and fi	eld trial co	mpleted by	<i>r</i> :
	of Integrated Dumper	material		31 st Jan	15 th Feb	28 th Feb	15 th Mar	31 st Mar	20 th
	Collision Avoidance system for opencast	development to improve		14	14	14	14	14	Nov.13
	mines.	Opencast Mine				Weightage			
		Safety		1.0	0.8	0.6	0.4	0.2	1.0
2.3	Studies on shrinkage	Process	1.00	If design c	of sample ce	ells and exp	perimental	set up com	pleted by:
		development /		28 th Feb	7 th	15 th Mar	21 st Mar	31 st Mar	30 th
	swelling characteristics of some Indian coals to ascertain recoverability of	improvement		14	Mar 14	14	14	14	Jan.'14
	CBM from deep seated			1		Weightage	e allotted	1	
	coal and shale resources			1.0	0.8	0.6	0.4	0.2	1.0
2.4	Construction of quick	Equipment/	1.00	lf	field trials ir	n two mines	s of MCL c	ompleted b	у
	setting stopping incase of	material		30 th Sep	15 th Oct	31 st Oct	15 th Nov	30 th Nov	20 th
	fire in underground mines using expansion foam	development to improve		13	13	13	13	13	Sep.'13
	agent.	Opencast Mine			1	Weightage	e allotted		
		Safety		1.0	0.8	0.6	0.4	0.2	1.0
2.5	Assessment of	Improvement	1.00	If estima	ting Seismi	c & fragme	ntation en	ergy comp	leted by
	performance of explosives/ blast results	in production, productivity		30 th	15 th July	31 st July	15 th Aug	31 st Aug	29 th May
	based on explosive	productivity		Jun 13	13	13	13	13	13
	energy utilization					Weightage	e allotted		
				1.0	0.8	0.6	0.4	0.2	1.0

To be filled up at the time of submission of performance evaluation of MoU.

<u>SI. No. 2.1</u>

1	Project code	CIL/R&D/1/42/10							
2	Title	Investigations of Bolt Behaviour in Blast Induced Dynamic Loading.	n Development ar	nd Depillaring Panels under					
3	Start date	Dec 2010							
4	Scheduled completion date	Dec 2013							
5	Objective	 (i) Investigation of bolt performa (ii) Investigation of bolt performa results of development panel . (iii) Study of bolt performance un (iv) Development of a simple nomog the best suited bolt for a given geo mi 	nce in depillaring nder blast induced ram or chart or com	panel and comparison with d dynamic loading					
6	Background to Description	In Indian coal mines, majority of acc especially due to roof or rock fall. Be to prevent such roof and rock falls. H the primary concern of mine manager practices for safe and secure working to understand the mechanics of bolt-g put to practice under a given geo-mini	olting is practiced a lealth and safety of ment. The manage g environment in ur prout-rock interaction	as the primary support system mine workers and officers are ment trust on the good bolting inderground. It is also required					
7	Base line survey	Understanding of bolt performance is practice. Till date, several lacunas ex							
8	Milestones (Work plan)	(i) Numerical modeling of fully grouted(ii) Development of nomogram(iii) Report preparation	1 rock bolts						
9	Action Plan	Activities		2013-14					
			Date of start	Probable date of completion					
		Numerical modeling of fully grouted rock bolts	Continued	Sep 2013					
		Development of nomogram	Continued	Oct 2013					
		Report preparation Oct 2013 Dec 2013							
10	Collaboration, if any	IIT, Kharagpur and RDCIS, SAIL, Ran	ichi						
11	Detailed documentation	Project file with relevant details & stat	us reports						
12	Resource employed	Executives of Blasting Cell, CMPDI(H IIT, Kharagpur and executives from R							
13	Project cost	Rs. 491.08 lakh							
14	Beneficiaries	Findings of this study may help the reg (support design) suggestions to the m							
15	Impact	Based on the finding, spacing of bolt diameter such that maximum utilization being employed in any mine would be and not be designed based on the thu	n of bolts can be obl scientifically prover	tained. Further, bolting practice					
16	Status as on 30.09.2012	Laboratory investigations in respect o by SAIL are under trial at IIT, Kharagp Coalfields Limited (ECL) is under prog be done at IIT, Kharagpur lab, shortly.	f 20mm, 22mm and ur. The Pull-out test ress. Standardizatio	ts at Jhanjra Project of Eastern					
17	Evaluation report by an independent agency	To be decided by the CIL Managemer							

<u>SI. No. 2.2</u>

1	Project code	CIL/R&D/1/51/12								
2	Title	Indigenous development of Integore opencast mines.	grated Dumper Collisi	on Avoidance system for						
3	Start date	Feb 2012								
4	Scheduled completion date	Jan 2014								
5	Objective	To develop an integrated dump mines to Protect loss of equipr efficient mining.								
6	Background to Description	Directorate General of Mines Safet 009 dated 02.12.2008 to ensure sa proximity warning system to avoid o	afety of dumpers by well	-equipped anti-collision and						
7	Base line survey	Due to sheer size of dumpers, it be dumpers to have even 180-degree costly equipment. Presently there is driver well in advance before occurr	of view. This leads to fre no warning system in th	quent accidents and loss of						
		Moving vehicles and stationary objection pose serious safety hazards in todate be resolved effectively by developing	ay's coal mining operation	ons. All these problems can						
8	Milestones (Work plan)	i. System Integration and Testing ii. Qualification test iii. System fitment and field trials.								
9	Action Plan	Activities		2013-14						
			Date of start	Probable date of completion						
		System Integration and Testing	April 2013	June 2013						
		Qualification test July 2013 Sep 2013								
		System fitment and field trial Oct 2013 Jan 2014								
10	Collaboration, if any	Bharat Electronic Limited, Panchku	la							
11	Detailed documentation	Project file with relevant details & st	tatus reports							
12	Resource employed	Executives of Mine Electronic Dep executives from Bharat Electronic L		, Ranchi in association with						
13	Project cost	Rs. 354.51 lakh								
14	Beneficiaries	The cost of indigenous product foreign product. Product design of specifications and new variant of at regular intervals. The complete main unit & pulsed radar based	can be customized as p of the system will be a ete solution will a cor	per end user requirement/ vailable to the end users						
15	Impact	On completion of this project, devel for open cast mines would protect lo and efficient mining.								
16	Status As on 30.9.2012	Development of Dumper collision av progress. A team consisting of officia KDH opencast mine of Central Coal system to dumpers.	als from CMPDI, Ranchi Ifields Limited (CCL) to v	and BEL, Panchkula visited						
17	Evaluation report by a independent agency	n To be decided by the CIL Managem	nent							

<u>SI. No. 2.3</u>

1	Project code	CIL/R&D/1/53/13										
2	Title	Studies on shrinkage swelling charac recoverability of CBM from deep sea										
3	Start date	March 2013										
4	Scheduled completion date	February 2015										
5	Objective	 (i) Development of a suitable ex shrinkage-swelling of coal and (ii) Study of shrinkage-swelling adsorption/desorption of metha pressures. (iii) Study of strain anisotropy in co 	shale samples. characteristics ane or carbon dic	of Indian coals with oxide gas under different								
		(iv) Computation of the influen permeability of coal/shale sam		shrinkage-swelling on								
		(v) Correlating the shrinkage-swell with its chemical composition.	ing characteristi	ics of Indian coal/shales								
6	Background to Description	cleat/fracture volume. Shrinkage of corresult in opening of the pores and apert of the coal. The increased porosity will h and ultimately on the recovery of methan	The matrix shrinkage coefficient is determined experimentally by conducting a									
7	Base line survey	The matrix shrinkage coefficient is determined experimentally by conducting a shrinkage experiment and this coefficient is fed to a CBM production simulator to estimate the increased CBM production that will be achieved because of increased permeability associated with matrix shrinkage due to desorption of methane. Thus it is very important to know the shrinkage/swelling characteristics and determine the matrix shrinkage coefficient.										
8	Milestones (Work plan)	(i) Selection and procurement of variou(ii) Design of sample cells and experim		quipment								
9	Action Plan	Activities		2013-14								
			Date of start	Probable date of completion								
		Selection and procurement of various high pressure equipment	Continued	Jan 2014								
		Design of sample cells and experimental set-up	Continued	Feb 2014								
10	Collaboration, if any	Indian Institute of Technology, Kharagp	ur									
11	Detailed documentation	Project file with relevant details & status										
12	Resource employed	Executives of CBM Cell of CMPDI(HQ)	, Ranchi in associ	ation with IIT, Kharagpur								
13	Project cost	Rs.182.60 lakh For CMPDI - Rs. 55.70 lakh For IIT, Kharagpur- Rs.126.90 lakh										
14	Beneficiaries	Coal India Ltd. & others										
15	Impact	The study will provide benefits in shrinkag will facilitate & increase permeability of c										
16	Status	Procurement of equipment is under pro	gress.									
17	Evaluation report by an independent agency	To be decided by the CIL Management										

<u>SI. No. 2.4</u>

1	Project code	CIL/R&D/1/48/11		
2	Title	Construction of quick setting stop expansion foam agent	ping incase of fire	in underground mines using
3	Start date	Oct 2011		
4	Scheduled completion date	Sep 2013		
5	Objective	 i) Indigenous development of mate construction of barriers to stop and reii) Such construction material mu and easy to transport to the work 	estrict air circulation st be of light we	n at/near the seat of fire.
6	Background to Description	Underground Mine fire is inherent min other operational reasons. Once fir it in minimum time duration becomes	re initiates, the stop	
7	Base line survey	During reopening for extraction of val need to restrict air to avoid revival of barrier to stop supply of air in case of reopening of sealed area	fire. Mine manage	ment needs a fast construction
8	Milestones (Work plan)	 i) Procurement of chemicals and sam ii) Permission from DGMS for conductiii) Field trials in two mines of MCL 		
9	Action Plan	Activities		2013-14
			Date of start	Probable date of completion
		Procurement of chemicals and sample preparation	Continued	May 2013
		Permission from DGMS for conducting field trials	April 2013	June 2013
		Field trials in two mines of MCL	June 2013	Sep 2013
10	Collaboration, if any	NIT, Rourkela and M/s Trans Marketi	ng, Kolkata	
11	Detailed documentation	Project file with relevant details & sta	tus reports	
12	Resource employed	Executives of S&R Department, CIL, Rourkela and Professionals of M/s Tr		
13	Project cost	Rs. 51.34 lakh		
14	Beneficiaries	Coal India Ltd. & others		
15	Impact	The expansion foam which would l effective solution for long standing underground district after a long perio	hurdle in mining in	
16	Status (As on 30.09.2012)	Preparation of foam samples and pro of the expansion foam samples, the permission to conduct field trial.		
17	Evaluation report by a independent agency	an To be decided by the CIL Manageme	nt	

<u>SI. No. 2.5</u>

1	Project code	CIL/R&D/1/41/10		
2	Title	Assessment of performance of e energy utilization	explosives/ blast	results based on explosive
3	Start date	June 2010		
4	Scheduled completion date	June 2013		
5	Objective	To establish a user friendly performance of explosives in te throw and ground vibrations, whic of different explosives in give proj blast performance.	erms of energy c ch could be applie	consumed in fragmentation, ed to gauge the performance
6	Background to Description	Explosive energy spent is related to t to the New Surface Area created. The explosive energy generated. A new co optimum throw of fragmented mater related to the productivity of excavate carried by the ground vibration waves be used to assess blast results, repr from the point of view of desirable an	e new surface area oncept of productive rial in the form of r ors. An attempt will through the strata. esenting the overal	created will be correlated to the yield is proposed, representing nuck pile profile, which will be be made to assess the energy These three major pointers will I utilization of explosive energy
7	Base line survey	Effective utilization of explosive energy the effective performance of down stru- has been developed so far and put to can become a guideline to the mining	eam operations, no use in the country,	specific scientific methodology which is easy to implement and
8	Milestones (Work plan)	 i) Field trial for data collection from to ii) Estimating Seismic & fragmentatio 		
9	Action Plan	Activities		2013-14
			Date of start	Probable date of completion
		Field trial for data collection from two mines of SCCL	Continued	May 2013
		Estimating Seismic & fragmentation energy	Continued	Jun 2013
10	Collaboration, if any	NITK, Surathkal.	•	
11	Detailed documentation	Project file with relevant details & sta	tus reports	
12	Resource employed	Executives of Blasting Cell, CMPDI, Surathkal.	Ranchi in associat	tion with Academician of NITK,
13	Project cost	Rs.231.18 lakh		
14	Beneficiaries	Coal India Ltd. & others		
15	Impact	Based on the project findings, it is e assessing the performance of a give muck pile profile and ground vibration in creating new surface area and rec vibrations.	en explosive/blast in ns, representing the	n terms of fragmentation, throw work done by explosive energy
16	Status	Field trial for data collection from SC at different locations of mines for est energy is also under progress.		
17	Evaluation report by a independent agency	IN To be decided by the CIL Manageme	nt	

Annexure-XIV

HRM Performance Evaluation under Memorandum of Understanding

Self- Evaluation Score(to be filled up at the time of	submission of performance	evaluation by CPSE)			2.5	10.05	0	ß	ى		ى ا	37.55
Actual Performance (To be filled at the time of submission of	performance evaluation by	CPSE)			100% (29 training plan)	1.099	75% (3 persons)	0.18	100% (4 programs)		100% (4 programs)	
Poor		80			50%	1.05	1	0.07	1		1	
Fair	eightage	85			60%	1.10	25% (1 person)	0.08	25% (1 program)		25% (1 program)	
Good	d as % of w	6	-		%02	1.16	50% (2 persons)	60.0	50% (2 programs)		50% (2 programs)	
Excellent	Score to be allocated as % of weightage	100	-		100%	1.26	100% 50% (4 persons) (2 persons)	0.11	100% (4 programs)		100% (4 programs)	
Target value under five point scale - Basic Target (Very Good)	Score to	95			90% (26 training plan)	1.2 training days per employee	75% (3 persons out of maximum 4 to be nominated in the 2 planned training program on leadership development at IICM)	0.10% of Employee cost (2012-13)	75% (3 programs out of 4 planned)		75% (3 training programs to be organised out of 4 planned)	
Weigh- tage					2.5	2.5	ى	£	ى		ນ	25
Measurement Unit			pment		% fulfillment (out of 29 training plan)	Days per employee per year	% fulfillment of planned leadership development programmes	% of employees cost	%		%	
HRM - PERFORMANCE INDICATORS			Competency & Leadership Development	A1 Compulsory	% actualization of Training Plan	Training Days per employee per year	Developing critical mass of leaders through a system of career planning & development	Training budget as % of employee cost	% fulfillment of training plan for Multi-skilling / Skill Upgradation of non-executives	A2 Optional	Training interventions in new/ advanced technology - % fulfillment of training plan in new technology	Total
SI.			۲		-		7	с	4		5	

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

Self- Evaluation Score(to be filled up at the time of	performance	evaluation by CPSE)		10				10	25		5		50	-	15	15
Actual Performance (To be filled at the time of submission of	evaluation by	CPSE)		6.365%				6.206%	Being formulated		2				ę	
Poor		80		0.65%				2.4%	No	Ī	ı				1	
Fair	/eightage	85		0.70%				2.6%			ı					
Good	Score to be allocated as % of weightage	06		0.75%				2.8%			ı				1	
Excellent	be allocate	100		0.85%				3.2%	Yes	No. of Mentor-2, Mentees -10	2 nos.				2	
Target value under five point scale - Basic Target (Very Good)	Score to	95		0.8 % (through	transfer / posting) (About 25	nos. out of total	manpower of 3131 (As on 1.3.2013)	3% (by super- annuation) (About 125 nos. out of total manpower of 3131 (As on 1.3.2013)	Yes	No. of Mentors -1, Mentees -5	1 no. executive	to be nominated to Advanced Management Programme organised by IICM			F	
Weigh- tage				10				10	5		5		30		່ງນ	15
Measurement Unit			Vanagement	%				%	Yes / No ;	Numbers	Schemes /	Initiatives & their details			Nos. of nominations/ entries submitted for national awards	
HRM - PERFORMANCE INDICATORS			Recruitment, Retention & Talent Management	Manpower Rationalization through	- Voluntary retirements	- Redeployment	- Any other	Attrition as % of total employees	Presence of Mentorship	Development Programme - Nos. of Mentors & Mentees	Formulation / Implementation of	systems for management of Talent such as - Job rotation system, reward system, sponsoring sr. executives for Advanced Management Programme, growth opportunities, etc.	Total	Enabling Creativity & Innovation	Nos. of Nominations/entries submitted for National Awards (PM Shram Awards, Vishwakarma Rashtriya Puraskar, etc.)	Total
ы. М			ß	9				~	ø		ი			ပ	10	

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED Balance Sheet as at 31st March , 2014

	PARTICULARS	Notes		As at 31-03-2014 (Audited)		As at 31-03-2013 (Audited)
I	EQUITY AND LIABILITIES					
(1)	Shareholders' Fund					
	a) Share Capital	1	19.04		19.04	
	b) Reserves & Surplus	2	136.84		115.85	
				155.88		134.89
(2)	Non-Current Liabilities					
	a) Long Term Borrowing	3	-		-	
	b) Deferred Tax Liability (Net)		-		-	
	c) Other Long Term Liabilities	4	-		-	
	d) Long Term Provisions	5	183.51		182.11	
				183.51		182.11
(3)	Minority Interest					
(4)	Current Liabilities					
	a) Short Term Borrowing	6	_		_	
	b) Trade Payables	7	45.80		32.43	
	c) Other Current Liabilities	8	222.99		215.18	
	d) Short Term Provisions	9	222.34	491.13	198.45	446.06
		_				
	Total			830.52		763.06
11	ASSETS					
(1)	Non-Current Assets					
	(a) Fixed Assets	10A				
	i) Tangible Assets - Gross Block		180.94		181.85	
	Less : Depreciation, Impairment & Provisions		109.49		106.67	
	Net Carrying Value			71.45		75.18
	ii) Intangible Assets - Gross Block	10A	2.21		5.61	
	Less : Depreciation, Impairment & Provisions		2.21	-	5.61	-
	Net Carrying Value					
		100		05.50		44.07
	iii) Capital Work-in-Progress	10B		25.59		11.37
	iv) Intangible Assets under Development	10C		-		-
	(b) Non-Current Investment	11		-		
	(c)Deferred Tax Assets (Net)	10		101.59		95.54
	(d) Long Term Loans & Advances	12		2.02		0.74
	(e) Other Non-Current Assets	13		0.02		0.02

	PARTICULARS	Notes		As at 31-03-2014 (Audited)		As at 31-03-2013 (Audited)
(2)	Current Assets					
	(a) Current Investments	14	-		-	
	(b) Inventories	15	5.77		6.04	
	(c) Trade Receivables	16	198.34		323.80	
	(d) Cash & Cash equivalents	17	109.18		117.89	
	(e) Short Term Loans & Advances	18	316.51		132.43	
	(f) Other Current Assets	19	0.05		0.05	
				629.85		580.21
	Total			830.52		763.06
	Significant Accounting Policies	33				
	Additional Notes on Accounts	34				

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED Balance Sheet Contd.

The Notes referred to above form an integral part of Balance Sheet

For and on behalf of Board of Directors Central Mine Planning & Design Institute Limited

Sd/ **(P. Lazar)** Company Secretary Sd/ (A. K. Soni) General Manager (Finance) Sd/ (D. K. Ghosh) Director Sd/ (A. K. Debnath) Chairman- cum - Managing Director

In terms of our report of even date attached **For TODI TULSYAN & CO.** Chartered Accountants Firm Registration No. : 002180C

Sd/ **(CA SUSHIL KUMAR TULSYAN)** PARTNER Membership No. : 075899

Date : 10th May, 2014 Place : Ranchi

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED Statement of Profit & Loss for the year ended 31st March, 2014

	₹	in	crore
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PARTICULARS	Notes	For the Year ended 31-03-14 (Audited)	For the Year ended 31-03-1 (Audited)
INCOME			
Sale of Coal		-	-
Less : - Excise Duty		-	-
Other Levies		-	-
Revenue From Operations	20	647.43	601.05
Other Income	21	5.01	4.16
Total Revenue		652.44	605.21
EXPENSES			
Cost of Material Consumed	22	19.99	15.28
Change in inventories of finished goods work in	23	-	-
progress and Stock in trade			
Employee Benefit Expenses	24	364.53	367.72
Power & Fuel		3.11	2.10
Welfare Expenses	25	17.64	19.37
Repairs	26	14.25	13.58
Contractual Expenses	27	152.27	114.13
Finance Costs	28	0.17	0.09
Depreciation/Amortization/Impairment		9.83	7.56
Provisions	29	(0.19)	0.39
Write off	30	-	-
Overburden Removal Adjustment		-	-
Other Expenditure	31	36.75	30.03
Total Expenses		618.35	570.25
Profit/Loss before Exceptional & Extraordinary Items & Tax		34.09	34.96
Drier Deried Adjustment (Charges/(Incomes))	20	(0.54)	E 10
Prior Period Adjustment { Charges/ (Incomes) }	32	(0.51)	5.19
Exceptional Items		-	-
Profit/ (Loss) before Extraordinary Items and Tax		34.60	29.77
Extraordinary Items { Charges/ (Incomes) }		-	-

PARTICULARS	Notes	For the Year ended 31-03-14 (Audited)	For the Year ended 31-03-13 (Audited)
Profit/ (Loss) Before Tax		34.60	29.77
Less : Tax Expenses			
- Current Year		19.15	28.58
- Deferred Tax		(6.05)	(23.86)
- Earlier Years		1.93	-
Profit/ (Loss) For the Year		19.57	25.05
Earning Per Equity Share (in ₹)			
(Face Value of 1000/- per share)			
(1) Basic (in ₹)		1028.00	1316.00
(2) Diluted (in ₹)		1028.00	1316.00
Significant Accounting Policies	33		
Additional Notes on Accounts	34		
The Notes referred to above form an integral part of	of Statement of Pro	fit & Loss	

Sd/ **(P. Lazar)** Company Secretary Sd/ **(A. K. Soni)** General Manager (Finance) Sd/ (D. K. Ghosh) Director Sd/ (A. K. Debnath) Chairman- cum - Managing Director

In terms of our report of even date attached For TODI TULSYAN & CO. Chartered Accountants Firm Registration No. : 002180C

> Sd/ (CA SUSHIL KUMAR TULSYAN) PARTNER Membership No. : 075899

Date : 10th May, 2014 Place : Ranchi

<u>NOTE - 1</u>

SHARE CAPITAL

	PARTICULARS	As at 31-03-14 (Audited)	As at 31-03-13 (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 ₹ Rs 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	8.54	8.54
	other than cash (Previous Year 85392 Equity		
	Shares of ₹ 1,000/- each)		
	105000 Equity Shares of ` 1000/- each allotted as fully paid for Cash to Holding Company	10.50	10.50
	by converting loan in equity	10.50	10.50
		19.04	19.04
ame	e of Shareholder	No. of Shares Held (Face value of ₹ 1000 each)	% of Total Shares
	India Limited	190400	100%

<u>NOTE - 2</u>

RESERVES & SURPLUS

		₹ in cror
RESERVES & SURPLUS	As at 31-03-14 (Audited)	As at 31-03-13 (Audited)
Capital Reserve		
As per last Balance Sheet	11.17	12.25
Add: Addition during the year	2.72	0.71
Less: Adjustment During the year	1.30	1.79
		11.17
(Additional Note - 34 Para 5.0 Capital Reserve)	12.59	11.17
Capital Redemption Reserve As per last Balance Sheet Add: Addition during the year		
Less: Adjustment During the year	-	-
		-
Reserve for Foreign Exchange Transactions		
As per last Balance Sheet	-	-
Add: Addition during the year	-	-
Less: Adjustment During the year	-	-
	-	-
CSR Reserve		
As per last Balance Sheet	0.57	0.65
Add: Addition during the year	1.25	0.98
Less: Transfer to General Reserve	1.82	1.06
	1.02	0.57
Sustainable Development Reserve	-	0.57
As per last Balance Sheet	0.10	
Add: Addition during the year	0.10	0.10
Less: Transfer to General Reserve		0.10
	0.19	0.10
General Reserve	0.05	0.10
As per last Balance Sheet	3.73	2.67
		-
Add: Transfer from CSR/SD Reserve	2.01	1.06
Add:/ Less: Adjustment During the year	-	-
Surplus in Drofit & Loss Assount	5.74	3.73
Surplus in Profit & Loss Account As per last Balance Sheet	100.28	76.31
Profit/(Loss) after Tax During the Year	19.57	25.05
Profit/(Loss) available for Appropriation LESS APPROPRIATION	119.85	101.36
Reserve for Foreign Exchange Transaction	_	_
Transfer to General Reserve	-	_
Transfer to CSR Reserve	1.25	0.98
Transfer to Sustainable Development Reserve	0.12	0.10
Interim Dividend	0.12	0.10
Proposed Dividend on Equity Shares		
Corporate Dividend Tax		_
	118.48	100.28
	110.40	100.20
Miscellaneous Expenditure		
(to the extent not written off)		
Preliminary Expenses	-	-
Pre-Operational Expenses	-	-
Total :	136.84	115.85

<u>NOTE - 3</u>

LONG TERM BORROWING

₹ in crore

-	-
-	-
-	_
-	-
-	-
-	-
-	-
Amount ₹ in crores	Nature of Guaran
NIL	NIL
	- - Amount ₹ in crores

<u>NOTE - 4</u>

OTHER LONG TERM LIABILITIES

OTHER LONG TERM LIABILITIES	As at 31-03-14 (Audited)	As at 31-03-13 (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	-	-

<u>NOTE - 5</u>

LONG TERM PROVISIONS

		₹ in crore
LONG TERM PROVISIONS	As at 31-03-14 (Audited)	As at 31-03-13 (Audited)
For Employee Benefits		
- Gratuity	103.21	106.52
- Leave Encashment	67.2	63.86
- Other Employee Benefits	13.10	11.73
For Foreign Exchange Transactions (Marked to Market)	-	-
OBR Adjustment Account	-	-
Mine Closure	-	-
For Others	-	-
Total	183.51	182.11

<u>NOTE - 6</u>

SHORT TERM BORROWING

As at 31-03-13 (Audited) -
-
-
-
-
-
Nature of Guarante
NIL

<u>NOTE - 7</u>

TRADE PAYABLE

		₹ in crore
TRADE PAYABLE	As at 31-03-14 (Audited)	As at 31-03-13 (Audited)
Sundry Creditors For Revenue Stores/Others	45.80	32.43
TOTAL	45.80	32.43

<u>NOTE - 8</u>

OTHER CURRENT LIABILITIES

SHORT TERM PROVISIONS

₹ in crore

INCOME	As at 31-03-14 (Audited)	As at 31-03-13 (Audited)
Current Maturities of Long Term Borrowings		
Term Loan From IBRD	-	-
Term Loan From JBIC	-	-
Term Loan From Export Development Corp., Canada	-	-
Term Loan From Liebherr France S.A., France	-	-
Loan From Coal India Limited	-	-
Surplus Fund from Coal India	-	-
For Capital (including Stores)	5.98	6.80
FOR EXPENSES :		
	29.62	27.44
Salary Wages & Allowances	0.65	0.41
Power & Fuel	80.20	61.19
Others	116.45	95.84
STATUTORY DUES :		
Sales Tax/VAT	_	_
Provident Fund & Pension Fund	16.09	14.07
Central Excise Duty	-	-
Royalty & Cess on Coal	_	_
Stowing Excise Duty		-
Clean Energy Cess	1.78	4.04
Other Statutory Levies	17.87	18.11
Income Tax Deducted at Source	0.42	1.53
Security Deposit	2.15	1.90
Earnest Money	2.37	1.72
Advance & Deposit from customers / others	4.74	4.65
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	78.99	91.43
TOTAL	222.99	215.18

<u>NOTE - 9</u>

SHORT TERM PROVISIONS	As at 31-03-14 (Audited)	As at 31-03-13 (Audited)
For Employee Benefits		
- Gratuity	19.68	24.55
- Leave Encashment	12.43	12.06
- PPLB	7.22	5.88
- PRP (Additional Note - 34 Para 7.3)	165.48	137.15
- Other Employee Benefits	17.51	18.80
For Proposed Dividend		
For Corporate Dividend Tax	-	-
For Excise Duty on Closing Stock of Coal	-	-
For Others	0.02	0.01
Total	222.34	198.45

<u>NOTE - 10A</u> XED ASSETS	

(Additional Note - 34 Para 4.0)

		GROSS BLOC	BLOCK			DEPRECIATION	IATION		=	IMPAIRMENT LOSS	NT LOSS				
PARTICULARS	As on 01.04.13	Addition during 2013-14	Adj./ Sales/ Transfer 2013-14	As on 31-03-14	As on 01.04.13	Addition during 2013-14	Adj./ Sales/ Transfer 3 2013-14	As on 31-03-14 (As on 01.04.13	Addition during 2013-14	Adj./ Sales/ Transfer 2013-14	As on 31-03-14	Total Depreciation/ Impairment Loss	As on 31-03-14	As on 31-03-13
Tangible Assets															
Land (a) Freehold (b) Leasehold	1.15 2.19	1 1		1.15 2.19	- 0.79	- 0.04	1 1	- 0.83	т т	т т	н н		- 0.83	1.15 1.36	1.15 1.40
Building/Water Supply/Road & Culverts	41.63	0.32	(0.09)	41.86	14.60	0.75	(0.09)	15.26	ı	ı	ı	1	15.26	26.60	27.03
Plant & Machinery	108.38	4.23	(2.88)	109.73	72.77	7.86	(3.73)	76.90	ī	ı	ı		76.90	32.83	35.61
Telecommunication	ı	ı	ı	ī	ı	ı	ı	,	ı		ı	ı	I	ı	ı
Railway Sidings	ı	ı	I	I	I	ı	ı	ı	I	I	I	ı	I	ı	ı
Furniture & fittings/ Office Tools & Equipments/ Electrical Fittings/ Fire Arms	15.94	1.49	(3.43)	14.00	11.55	0.83	(3.26)	9.12	ı	ı			9.12	4.88	4.39
Vehicle	12.56	0.02	(0.57)	12.01	6.96	0.91	(0.49)	7.38	1	ı	ı		7.38	4.63	5.60
Aircraft	,	ı	I	ı	ı	ı	ı		ī	ı	ı		ı	ı.	I.
Development	ı	,	I	ī	ı	ı	ı	ı	ı	ı	ı	ı	I	ı	ı
Assets taken on Nationalisation	,	ı	ı	ı	ı	·			ı	ı	ı	ı		ı	,
TOTAL	181.85	6.06	(6.97)	180.94	106.67	10.39	(7.57)	109.49					109.49	71.45	75.18
Tangible Assets (As on 31.03.13)	177.77	7.51	(3.43)	181.85	99.71	8.93	(1.97)	106.67					106.67	75.18	78.06
Intangible Assets :															
Computer Software	5.61	0.75	(4.15)	2.21	5.61	0.75	(4.15)	2.21	,	,	,	ı	2.21	1	1
Development	•		•		•				'		•		•	,	,
Prospecting & Boring	•	•										1			
Total	5.61	0.75	(4.15)	2.21	5.61	0.75	(4.15)	2.21			1	1	2.21	1	1
Intangible Assets (As on 31.03.13)	5.20	0.41	1	5.61	5.20	0.41	1	5.61		,	1		5.61	1	1

NOTE - 10B CAPITAL WORK-IN-PROGRESS
--

		č	COST							MOINDMI	MDAIDMENT LOSS		Total	NET B	₹in crore
PARTICULARS	As on 01.04.13	Addition during 2013-14	As on during Transfer 01.04.13 2013-14 201 3-14	As on 31-03- 14	As on 01.04.13	Addition during 2013-14	Adj./Sales/ Transfer 2013-14	As on 31-03-14	As on As on Addition 31-03-14 01.04.13 2013-14	Addition / during 2013-14	Addition Adj./Sales/ during Transfer 2013-14 2013-14	As on 31-03-14	Depreciation/ Impairment Loss	As on 31-03-14	As on 31-03-13
Tangible Assets															
Building/Water Supply/ Road & Culverts	3.70	4.16	(0.52)	7.34	ı	I	I	ı	ı		ı	I		7.34	3.70
Plant & Machinery	7.13	13.76	(3.30)	17.59	ı		I	'	ı		I		ı	17.59	7.13
Railway Sidings	ı	ı	ı	,	ı	ı	I	ı	ı	ı	I	ı	ı	I	I
Development		ı		ı	I	I	ı	I	I		ı	ı	ı	I	
TOTAL	10.83	17.92	(3.82)	24.93					•					24.93	10.83
Tangible Assets (As on 31.03.13)	11.05	4.23	(4.45)	10.83	0.03	ı	(0.03)	1	I			,		10.83	11.02
Surveyed off Assets	0.54	0.12		0.66			•	•						0.66	0.54
Surveyed off Assets (As on 31.03.13)	10.08	0.06	(0:60)	0.54	9.58		(9.58)						ı	0.54	0.50
Grand Total	11.37	18.04	(3.82)	25.59		•		•	•	•	•	•		25.59	11.37
Grand Total (As on 31.03.13)	21.13	4.29	(14.05)	11.37	9.61	1	(9.61)			•			1	11.37	11.52
						lon	NOTE - 10C								

NOTE - 10C INTANGIBLE ASSET UNDER DEVELOPMENT

₹ in crore

OCK		As on 31-03-13		ı	ı		ı
NET BLOCK		As on As on 31-03-14 31-03-13		-	-		-
Total	וטומו	Depreciation/ Impairment Loss		T	T		I
		As on 31-03-14		-	T		-
IMPAIRMENT LOSS		As on As on Addition Adj./Sales/ 31-03-14 01.04.13 2013-14 2013-14			ı		-
IMPAIRI		Addition during 2013-14		-	ı		-
		As on 01.04.13		-	ı		-
		As on 31-03-14		1	·		1
PROVISION		As on As on during Addition Adj./Sales/ 31-03-14 01.04.13 2013-14 2013-14					
PRC		Addition during 2013-14		-	г		-
		As on 01.04.13		-	ı		-
				-	·		-
COST		As on during Adj./Sales/ 01.04.13 2013-14 2013-14		-	·		-
C		Addition during 2013-14		-	T		-
		As on 01.04.13		-	ı		1
		PARTICULARS	Intangible Assets	Development	Prospecting & Boring	For the year ended 31.03.13	Intangible Assets

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

<u>NOTE - 11</u>

NON - CURRENT INVESTMENTS - Unquoated at Coast

NON - CURRENT INVESTMENTS - Unquoted at Cost	Number of shares/bonds/ securities current year/ (previous year)	Face value per shares/bonds/ security current year/ (previous year) (r)	As at 31-03-2014 (Audited)	As at 31-03-2013 (Audited)
TRADE				
8.5% Tax Free Special Bonds (Fully Paid up) : (on securitisation of Sundry Debtors) Major State-wise Break-up UP				
	-	-	-	-
Haryana	-	-	-	-
Maharashtra	-	-	-	-
Madhya Pradesh	-	-	-	-
Gujarat	-	-	-	-
West Bengal	-	-	-	-
Others	-	-	-	-
Equity Shares in Joint Venture Companies (with name of joint ventures)	-	-	-	-
Equity Shares in Subsidiaries Companies (with name of Subsidiaries)	-	-	-	-
Others (in Co-operative Shares)	-	-	-	-
NON-TRADE				
7.55% Non Convertible IRFC Tax Free Bonds 2021 Series	-	-	-	-
Total :			-	-
Aggregate of Quoted Investment			_	
Aggregate of Unquoted Investment			_	_
Market Value of Quoted Investment			-	-
Provision made for diminution in the value of Investment			-	-
<u>NOTE - 12</u>

LONG TERM LOANS & ADVANCES

LONG TERM LOANS & ADVANCES		As at 31-03-2014 (Audited)		As at 31-03-2013 (Audited)
LOANS	_		-	
ADVANCES				
For Capital				
- Secured considered goods		-		-
- Unsecured considered goods		1.29		0.03
- Doubtful		-		-
		1.29		0.03
Less : Provision for Doubtful Loans and Advances		-		-
		1.29		0.03
For Revenue		-		
- Secured considered goods		_		_
- Unsecured considered goods		_		_
- Doubtful				_
Doublidi				_
Less : Provision for Doubtful Loans and Advances				
Less . I Tovision for Doublidi Loans and Advances				
Security Deposits				_
- Secured considered goods				_
- Unsecured considered goods		-		
-		0.13		0.12
- Doubtful		-		-
		0.13		0.12
Less : Provision for Doubtful Loans and Advances		-		-
		0.13		0.12
Deposit for P&T, Electricity etc.				
- Secured considered goods		-		-
 Unsecured considered goods 		0.51		0.44
- Doubtful		-		-
		0.51		0.44
Less : Provision for bad and doubtful Loans trade receivables		_		_
		0.51		0.44
LOAN TO EMPLOYEES & OTHERS				
For House Building				
		0.00		0.15
- Secured considered goods		0.09		0.15
 Unsecured considered goods Doubtful 		-		-
- Doubliui		-		-
		0.09		0.15
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		-		-
Leen Te Cubeidieries				
Loan To Subsidiaries				
- Secured considered goods		-		-
- Unsecured considered goods		-		-
- Doubtful		-	-	-
		-	-	
		2.02		0.74
Note	1		1	
	CLOSING	BALANCE	MAXIMUM AMOUNT	DUE AT ANY TIME
	As on 31.03.2014	As on 31.03.2013	During 2013-14	During 2012-13
			_	

	CLOSING	BALANCE	MAXIMUM AMOUNT	DUE AT ANY TIME
	As on 31.03.2014	As on 31.03.2013	During 2013-14	During 2012-13
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

<u>NOTE - 13</u>

OTHER NON-CURRENT ASSETS

			Г	
OTHER NON-CURRENT ASSETS		As at 31-03-2014 (Audited)		As at 31-03-2013 (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
Note				
	CLOSING	BALANCE		I AMOUNT ANY TIME
	As on 31.03.14	As on 31.03.13	During 2013-14	During 2012-13
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

<u>NOTE - 14</u>

CURRENT INVESTMENTS - QUOTED / UNQUOTED AT COST

CORRENT INVESTMENTS - QUOTEI				₹ in crore
CURRENT INVESTMENTS - Quoted/ Unquoted at Cost	Number of shares/ bonds/securities current year/ (previous year)	Face value per shares/bonds/ security current year/ (previous year) (r)	As at 31-03-2014 (Audited)	As at 31-03-2013 (Audited)
NON-TRADE				
Mutual Fund Investment				
(with name of mutual fund)	-	-	-	-
7.55% Non Convertible IRFC Tax Free Bonds 2021 Series				
TRADE				
8.5% Tax Free Special Bonds (Fully Paid up) :				
(on securitisation of Sundry Debtors)				
Major State-wise Break-up	-	-	-	-
Total :			-	-
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			-	-

<u>NOTE - 15</u>

INVENTORIES

			< III CIOIE
	INVENTORIES	As at 31-03-2014	As at 31-03-2013
	(Valuation as per Accounting Policy No. 5.1 Note - 33)	(Audited)	(Audited)
	Stock of Coal	-	_
	Coal Under Development		
		-	-
		-	-
	Less : Provision	-	-
A	Stock of Coal (Net)	-	-
	Stock of Stores & Spare Parts (at cost)	6.13	6.24
	Stores -in -transit	0.06	0.13
	Less : Provision (Additional Note-34 Para 2.1.2)	0.42	0.33
	Less: Frovision (Auditional Note-54 Fara 2.1.2)	0.42	0.55
В	Net Stock of Stores & Spare Parts (at cost)	5.77	6.04
С	Workshop Jobs :	-	-
	Work-in-progress and Finished Goods	-	-
	Less : Provision		
	Net Stock of Workshop Jobs		
D	Director		
	Press :	-	-
	Work-in-Progress and Finished Goods		
E	Stock of Medicine at Central Hospital	-	-
F	Prospecting & Boring/ Development Exp./Coal Blocks meant for Sale	-	_
	Total(A to F)	5.77	6.04
		0.17	5.04

₹ in crore

NOTES TO BALANCE SHEET (CONTD...)

<u>NOTE - 16</u>

TRADE RECEIVABLE

TRADE RECEIVABLE		As at 31-03-2014 (Audited)		As at 31-03-2013 (Audited)
Debts outstanding for a period exceeding six months from the due date				
- Secured considered goods		-		_
- Unsecured considered goods		88.90		69.78
- Doubtful		2.84		3.11
		91.74		72.89
Less Provision for bad and doubtful trade receivables		2.84		3.11
		88.90		69.78
Other Debts				
- Secured considered goods		-		-
- Unsecured considered goods		109.44		254.02
- Doubtful		-		-
		109.44		254.02
Less Provision for bad and doubtful trade receivables		-		-
		109.44		254.02
Total		198.34		323.80
Note				
	CLOSING	BALANCE		MOUNT DUE
	As on	As on	During	During
	31.03.14	31.03.13	2013-14	2012-13
Due by the Companies under the same management	31.03.14	31.03.13	2013-14	2012-13
Due by the Companies under the same management Eastern Coalfields Limited	31.03.14 20.52	20.76	2013-14 32.22	2012-13 21.43
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited	20.52	20.76	32.22	21.43
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited	20.52 31.02	20.76 39.18	32.22 45.43	21.43 43.93
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited	20.52 31.02 40.52	20.76 39.18 38.83	32.22 45.43 58.60	21.43 43.93 66.77
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited	20.52 31.02 40.52 3.42	20.76 39.18 38.83 15.67	32.22 45.43 58.60 18.45	21.43 43.93 66.77 15.88
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited South Eastern Coalfields Limited	20.52 31.02 40.52 3.42 3.13	20.76 39.18 38.83 15.67 61.09	32.22 45.43 58.60 18.45 70.87	21.43 43.93 66.77 15.88 69.47
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited South Eastern Coalfields Limited Northern Coalfields Limited	20.52 31.02 40.52 3.42 3.13 15.67	20.76 39.18 38.83 15.67 61.09 15.50	32.22 45.43 58.60 18.45 70.87 17.99	21.43 43.93 66.77 15.88 69.47 18.56
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited South Eastern Coalfields Limited Northern Coalfields Limited Mahanadi Coalfields Ltd. North East Coalfields Kakri CHP (NCL)	20.52 31.02 40.52 3.42 3.13 15.67 23.75	20.76 39.18 38.83 15.67 61.09 15.50 22.48	32.22 45.43 58.60 18.45 70.87 17.99 30.64	21.43 43.93 66.77 15.88 69.47 18.56 27.97
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited South Eastern Coalfields Limited Northern Coalfields Limited Mahanadi Coalfields Ltd. North East Coalfields	20.52 31.02 40.52 3.42 3.13 15.67 23.75 0.74	20.76 39.18 38.83 15.67 61.09 15.50 22.48 0.52	32.22 45.43 58.60 18.45 70.87 17.99 30.64 0.89	21.43 43.93 66.77 15.88 69.47 18.56 27.97 1.36
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited South Eastern Coalfields Limited Northern Coalfields Limited Mahanadi Coalfields Ltd. North East Coalfields Kakri CHP (NCL)	20.52 31.02 40.52 3.42 3.13 15.67 23.75 0.74 0.14	20.76 39.18 38.83 15.67 61.09 15.50 22.48 0.52 0.14	32.22 45.43 58.60 18.45 70.87 17.99 30.64 0.89 0.14	21.43 43.93 66.77 15.88 69.47 18.56 27.97 1.36 0.14
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited South Eastern Coalfields Limited Northern Coalfields Limited Mahanadi Coalfields Ltd. North East Coalfields Ltd. North East Coalfields Kakri CHP (NCL) Dankuni Coal Complex (CIL)	20.52 31.02 40.52 3.42 3.13 15.67 23.75 0.74 0.14 0.02	20.76 39.18 38.83 15.67 61.09 15.50 22.48 0.52 0.14 0.02	32.22 45.43 58.60 18.45 70.87 17.99 30.64 0.89 0.14 0.02	21.43 43.93 66.77 15.88 69.47 18.56 27.97 1.36 0.14 0.02
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited South Eastern Coalfields Limited Northern Coalfields Limited Mahanadi Coalfields Ltd. North East Coalfields Ltd. North East Coalfields Kakri CHP (NCL) Dankuni Coal Complex (CIL) Bharatpur CHP (MCL)	20.52 31.02 40.52 3.42 3.13 15.67 23.75 0.74 0.14 0.02 0.01	20.76 39.18 38.83 15.67 61.09 15.50 22.48 0.52 0.14 0.02 0.01	32.22 45.43 58.60 18.45 70.87 17.99 30.64 0.89 0.14 0.02 0.01	21.43 43.93 66.77 15.88 69.47 18.56 27.97 1.36 0.14 0.02 0.01
Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Western Coalfields Limited South Eastern Coalfields Limited Northern Coalfields Limited Mahanadi Coalfields Ltd. North East Coalfields Kakri CHP (NCL) Dankuni Coal Complex (CIL) Bharatpur CHP (MCL) CIL, Kolkata	20.52 31.02 40.52 3.42 3.13 15.67 23.75 0.74 0.14 0.02 0.01 24.94	20.76 39.18 38.83 15.67 61.09 15.50 22.48 0.52 0.14 0.02 0.01 41.33	32.22 45.43 58.60 18.45 70.87 17.99 30.64 0.89 0.14 0.02 0.01 43.15	21.43 43.93 66.77 15.88 69.47 18.56 27.97 1.36 0.14 0.02 0.01 41.33

<u>NOTE - 17</u>

CASH & CASH EQUIVALENTS

CASH & CASH EQUIVALENTS As at 31-03-14 As at 31-03-13 (Audited) (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 108.05 117.71 - In Cash Credit Accounts Balances with Non - Scheduled Banks In Account with Banks outside India Remittance - in transit Cheques, Drafts and Stamps on hand 0.05 0.01 Cash on hand 0.08 0.07 Deposit with Scheduled Banks under Shifting and Rehabilitation Fund Scheme with maturity upto 3 months **Other Bank Balances** Balances with Scheduled Banks - In Deposit Accounts with maturity more than 3 months 1.00 0.10 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 109.18 117.89 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 NIL 0.19 borrowings, guarantees, other commitments, other earmarked balances shall be disclosed separately. 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

₹ in crore

NOTES TO BALANCE SHEET (CONTD...) NOTE - 18

CASH & CASH EQUIVALENTS

SHORT TERM LOANS & ADVANCES	As at 31-03-14 (Audited)	As at 31-03-13 (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	0.58	0.24
- Doubtful	-	-
Less Provision for bad and doubtful trade receivables	0.58	0.24
	0.58	0.24
	0.56	0.24
	0.58	0.24
DV PAYMENT OF STATUTORY DUES		
SalesTax		
- Secured considered good	-	-
- Unsecured considered good	1.67	0.87
- Doubtful	-	-
	1.67	0.87
ess Provision for bad and doubtful trade receivables	-	-
	1.67	0.87
Advance Income Tax / Tax Deducted at Source	144.14	134.23
Reference Additional Note 34 Para 6.0)	144.14	134.23
Less : Provision for Income Tax	84.47	86.58
	59.67	47.65
Others		
- Secured considered good	-	-
- Unsecured considered good	0.09	0.09
- Doubtful	-	-
	0.09	0.09
Less Provision for bad and doubtful trade receivables	-	-
	0.09	0.09
	61.43	48.61
Advance to Employees		
- Secured considered good	-	-
 Unsecured considered good (Additional Note 34 Para 7.3) 	41.06	43.94
- Doubtful	-	-
	41.06	43.94
Less Provision for bad and doubtful trade receivables	-	-
	41.06	43.94
Current Account with Coal India Limited & other Subsidiaries of Coal India Limited	190.27	-
oan Account with Subsidiaries		
- Secured considered good	-	-
- Unsecured considered good	-	-
- Doubtful	-	-
I and Description for board and descriptful trade reserve black	-	-
Less Provision for bad and doubtful trade receivables		
	-	-
laims Receivables - Secured considered good		-
	- 22.78	
- Unsecured considered good - Doubtful		39.25
	0.09 22.87	0.16
Less Provision for bad and doubtful trade receivables	0.09	0.16
	22.78	39.25
repaid Expenses	0.39	0.39
	254.50	83.58
OTAL	316.51	132.43
lote	510.01	152.75
		MAXIMUM AMOUNT DUE A
		ANY TIME

	CLOSIN	G BALANCE	-	MOUNT DUE AT
	As on 31.03.14	As on 31.03.13	During 2013-14	During 2012-13
Due by the Companies under the same management	190.27	Nil	190.27	Nil
Due by the parties in which the Director(s) of company is /are interested	Nil	Nil	Nil	Nil

<u>NOTE - 19</u>

OTHER CURRENT ASSETS

OTHER CURRENT ASSETS	As at 31-03-2014 (Audited)	As at 31-03-2013 (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

<u>NOTE - 20</u>

REVENUE FROM OPERATIONS

Revenue From Operations	For the Year ended 31-03-2014 (Audited)	For the Year ended 31-03-2013 (Audited)
GROSS SALES	727.45	675.11
Less : Levies		
Excise Duty		
Royalty		
Cess on Coal		
Stowing Excise Duty		
Central Sales Tax		
Clean Energy Cess		
State Sales Tax/VAT		
Other Levies (Service Tax)	80.02	74.06
TOTAL LEVIES	80.02	74.06
Revenue From Operations (Net Sales)	647.43	601.05

ы М	HRM - PERFORMANCE INDICATORS	Measurement Unit	Weigh- tage	Target value under five point scale - Basic Target (Very Good)	Excellent	Good	Fair	Poor	Actual Performance (To be filled at the time of submission of	Self- Evaluation Score(to be filled up at the time of
				Score to	Score to be allocated as % of weightage	d as % of v	/eightage		performance evaluation by	submission of performance
				95	100	06	85	80	CPSE)	evaluation by CPSE)
۵	Employee Relations & Welfare									
1	Effectiveness of Grievance Redressal system - % of grievances settled vis-à-vis received during the year	% settlement	۵	10% (out of total grievance applications received)	10.2%	9.5%	%6	8.6%	100% (No Grievances till date)	ъ
12	Pension, medicare, Yoga classes to reduce stress where the job is stressful, setting up of wellness centre such as Gym etc.	Number of programs / date of implementation of scheme	ى س	2 nos. (Yoga class) (Pension & Medical facilities already exist)	3 nos.	1 no.		1	'n	ىي ا
13	Number of structured meetings with employees' representatives	Number of meetings	10	2	m	-	1		Q	10
	Total		20							20
ш	HR Branding & Excellence - Indicate achievement in this field for initiatives such as :	ate achievement	t in this fi	eld for initiatives s	uch as :					
14	Organization Culture Building initiatives	No. of programmes organised	10	1 no. of counseling programs on Organisation culture under which 10 executives to be covered.	2 nos. programs for total 20 executives.	1		1	0	20
	Total		10							50
	Grand Total		100							172.55
	NB: Total score out of 100 awarded on HRM to CPSE will be converted into score out of 1 in MoU on pro-rata basis	led on HRM to C	PSE will	be converted into s	score out of	1 in MoU o	n pro-rata t	basis		

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

ANNUAL ACCOUNTS 2013-14

<u>NOTE - 21</u>

OTHER INCOME

		₹ in cro
	For the	For the
OTHER INCOME	Year ended	Year ended
	31-03-2014	31-03-2013
	(Audited)	(Audited)
Income From Long Term Investments		
Dividend from Joint Ventures	-	-
Dividend from Subsidiaries	-	-
Interest from		
Government Securities (8.5% Tax Free Special Bonds) (Trade)	-	-
Income From Current Investments		
Dividend from Mutual Fund Investments	-	-
Interest from		
Government Securities (8.5% Tax Free Special Bonds) (Trade)	-	-
7.55% Non Convertible IRFC Tax Free Bonds 2021 Series (Non-Trade)		
	-	-
Income From Others		
Interest (Gross)		
From Deposit with Banks	0.61	0.21
From Loans and Advances to Employees	0.12	0.02
From Income Tax Refunds	-	1.17
From Coal India	-	-
Others	-	-
Apex Charges		
Subsidy for Sand Stowing & Protective Works	-	-
Profit on Sale of Assets	0.18	0.19
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	4.10	2.57
TOTAL	5.01	4.16

<u>NOTE - 22</u>

COST OF MATERIAL CONSUMED

COST OF MATERIAL CONSUMED	For the Year ended 31-03-2014 (Audited)	For the ear ended 31-03-2013 (Audited)
Explosives	-	-
Timber	-	-
POL	7.55	6.06
HEMM Spares	-	-
Other Consumable Stores & Spares	12.44	9.22
TOTAL	19.99	15.28

<u>NOTE - 23</u>

CHANGE IN INVENTORIES OF FINISHED GOODS, WORK IN PROGRESS AND STOCK IN TRADE

		For the Year ended 31-03-2014 (Audited)			For the Year ended 31-03-2013 (Audited)
	Opening Stock of Coal	-			-
	Add: Adjustment of opening stock	-			-
	Less: Deterioration of Coal	-			-
	Less:	-			-
	Closing Stock of Coal / Coke	-			-
	Less: Deterioration of Coal	-			-
А	Change in Inventory of Coal				
	Opening Stock of Workshop made finished goods and WIP	-			-
	Less: Provision	-			-
	Less:	-			-
	Closing Stock of Workshop made finished goods and WIP	-	ĺ		-
	Less: Provision	-			-
в	Change in Inventory of workshop				
	Press Opening Job				
	i) Finished Goods	-			-
	ii) Work in Progress	-			-
	Less:				
	Press Closing Job				
	i) Finished Goods	-			-
	ii) Work in Progress	-			-
с	Change in Inventory of closing Stock of Press job made finished goods and WIP	-			-
	Change in Inventory of Stock of trade	-			-
	(A+B+C)	-			-
	[Decretion / (Accretion)]		[

[Decretion / (Accretion)]

NOTE - 24

EMPLOYEE BENEFIT EXPENSES

EMPLOYEE BENEFIT EXPENSES		₹ in crore
	For the Year ended	For the Year ended
	31-03-2014	31-03-2013
	(Audited)	(Audited)
Salary, Wages, Allowances, Bonus & Benefits	222.88	197.43
Exgratia	8.17	6.87
PRP	28.33	27.70
Contribution to P.F. & Other Funds	30.00	26.92
Gratuity	8.60	19.40
Leave Encashment	15.68	20.50
VRS	-	-
Workman Compensation	0.02	-
Medical Expenses	6.22	6.03
Grants to Schools & Institutions	0.12	0.09
Sports & Recreation	0.36	0.33
Canteen & Creche	0.19	0.15
Power - Township	2.51	2.49
Hire Charges of Bus, Ambulance etc.	0.27	0.23
Other Employee Benefits	41.18	59.58
TOTAL	364.53	367.72

NOTE - 25

WELFARE EXPENSES

	For the Year ended	For the Year ended
WELFARE EXPENSES	31-03-2014	31-03-2013
	(Audited)	(Audited)
Medical Expenses for retired employees	13.51	16.55
CSR Expenses	2.01	1.06
Environmental Expenses	0.13	0.10
Tree Plantation	-	-
Other Expenses	1.99	1.66
TOTAL	17.64	19.37

NOTE - 26

REPAIRS		₹ in crore
REPAIRS	For the Year ended 31-03-2014 (Audited)	For the Year ended 31-03-2013 (Audited)
Building	4.05	5.40
Plant & Machinery	1.98	1.58
Others	<u>8.22</u>	<u>6.60</u>
TOTAL	14.25	13.58

<u>NOTE - 27</u>

CONTRACTUAL EXPENSES

CONTRACTUAL EXPENSES	For the Year ended 31-03-2014 (Audited)	For the Year end 31-03-20 (Audited
Transportation Charges :		
- Sand	-	
- Coal & Coke	-	
- Stores & Others etc.	-	
Wagon Loading	-	
Hiring of P&M	-	
Other Contractual Work	152.27	114.13
TOTAL	152.27	114.13

<u>NOTE - 28</u>

FINANCE COSTS

FINANCE COSTS	For the Year ended 31-03-2014	For the Year ended 31-03-2013
	(Audited)	(Audited)
INTEREST		
Deferred Payments	-	-
Bank Overdraft / Cash Credit	-	-
Interest on IBRD & JBIC Loan	-	-
CIL Fund Loan Interest	-	-
Interest to Subsidiaries	-	-
Others	0.17	0.09
TOTAL(A)	0.17	0.09
OTHER BORROWING COSTS		
Guarantee Fees on (IBRD & JBIC) Loan	-	-
Other Expenses / Bank Charges	-	-
TOTAL(B)	-	-
TOTAL (A+B)	0.17	0.09

₹ in crore

<u>NOTE - 29</u>

PROVISIONS

₹ in crore

PROVISIONS	For the Year ended 31-03-2014	For the Year ended 31-03-2013
	(Audited)	(Audited)
(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	-	0.39
TOTAL (A)	-	0.39
(B) PROVISION WRITTEN BACK		
Doubtful debts	-	-
Doubtful advances & Claims	-	-
Stores & Spares	0.09	-
Reclamation of Land	-	-
Surveyed of Fixed Assets/Capital WIP	-	-
Others	0.10	-
TOTAL (B)	0.19	-
TOTAL (A-B)	(0.19)	0.39

<u>NOTE - 30</u>

WRITE OFF

			₹ in crore
WRITE OFF	For the Year ended 31-03-2014 (Audited)		For the Year ended 31-03-2013 (Audited)
Doubtful debts	-		-
Doubtful advances	-		-
Others	-		-
TOTAL	-		-

<u>NOTE - 31</u>

OTHER EXPENDITURE

For the For the Year ended Year ended OTHER EXPENDITURE 31-03-2014 31-03-2013 (Audited) (Audited) Travelling expenses - Domestic 13.58 12.25 - Foreign 0.96 0.68 **Training Expenses** 0.65 0.40 Telephone & Postage 0.72 0.61 Advertisement & Publicity 1.62 0.66 **Freight Charges** -_ Demurrage _ Donation/Subscription Security Expenses 5.85 4.77 Service Charges of CIL 2.29 **Hire Charges** 3.17 **CMPDI Expenses** 0.13 0.23 Legal Expenses **Bank Charges** 0.05 0.04 **Guest House Expenses** 0.13 0.05 **Consultancy Charges** 0.57 1.29 **Under Loading Charges** --Loss on Sale/Discard/Surveyed of Assets Auditor's Remuneration & Expenses - For Audit Fees 0.04 0.03 0.01 - For Taxation Matters 0.01 - For Company Law Matters - For Management Services _ - For Other Services 0.10 0.12 - For Reimbursement of Expenses _ Internal Audit Expenses 0.37 0.36 **Rehabilitation Charges** Royalty & Cess _ -Central Excise Duty _ Rent 0.81 0.63 Rates & Taxes 0.48 0.58 0.01 0.01 Insurance Loss on Exchange Rate Variance Lease Rent Rescue/Safety Expenses Dead Rent/Surface Rent _ Siding Maintenance Charges _ Land/Crops Compensation 0.01 7.50 **Misceleneous Expenses** 5.01 TOTAL 30.03 36.75

<u>NOTE - 32</u>

EXCEPTIONAL ITEMS	For the Year ended	For the Year ended
PRIOR PERIOD ADJUSTMENT	31-03-2014	31-03-2013
TRIORT ERIOD ADJUGTMENT	(Audited)	(Audited)
(A) Expenditure		
Traveling Expenditure	-	-
Employees Remuneration & Benefits	-	-
Contractual Expenses	-	-
Other Expenditure	-	-
TOTAL (A)	-	-
(B) Income		
Sale of Service	0.51	(5.19)
		()
TOTAL (B)	0.51	(5.19)
TOTAL (A-B)	(0.51)	5.19

CASH FLOW STATEMENT

Cash Flow Statement for the year ended 31st March, 2014

	Particulars	Figures for the Current year 2013-14	Figures for the Previous year 2012-13
	1	2	3
	CASH INFLOW		
(1)	From Operating Activities	04.00	00 77
	(a) Profit from Operating Activities	34.60	29.77
	Adjustments		7.07
	Depreciation and Amortization	-	7.37
	Amortisation of Stock	-	-
	Amount transferred to CSR Reserve	-	-
	Compensation	-	-
	(Gain)/Loss on sale of Fixed Assets	-	-
	Assets written off	-	-
	Provision/ (Reversal) for Doubtful Debts & Advances	-	-
	(b) Working Capital Changes Decrease in Inventories	0.27	0.73
	Decrease in Trade Receivables	125.46	0.75
	Decrease in Short Term Loans & Advances	125.40	
	Decrease in Other Current Assets	-	-
	Increase in Trade Payables	13.37	-
	Increase in Current Liabilities	7.81	65.47
	Increase In Provisions - Short Term	23.89	100.97
	Increase In Provisions - Long Term	1.40	2.62
	(c) Deferred Tax Assets/Liabilities	1.40	2.02
	Total of (1)	206.80	206.93
(2)	From Investing Activities		
	(a) Purchase of Tangible Assets / Capital Work -in-progress		
	(b) Purchase of intangible Assets / Assets under Development	3.40	-
	(c) Proceeds from Sale of Fixed Assets		
	(d) Proceeds from Sale of Investments		
	(e) Realisation of Long Term Loans & Advances from		
	Subsidiaries/Associates/Business Ventures		
	(f) Decrease in other Long Term Loans & Advances	-	0.10
	(g) Decrease in Deposit Accounts with maturity more than 3		0.00
	months	-	0.92
	(h) Dividend Received		
	(i) Interest Received (j) Other Income		
	Total of (2)	3.40	1.02
		5.40	1.02
(3)	From Financing Activities		
	(a) Proceed from Issue of Share Capital		
	(b) Share Application Money pending Allotment		
	(c) Proceed from Long Term Borrowings/Provisions		
	(d) Proceed from Short Term Borrowings/ Govt Grants	1.42	-
	Total of (3)	1.42	
	TOTAL CASH INFLOW (1+2+3)	211.62	207.95

Amount ₹ in crore

				Amount ₹. in cro
	Particulars		Figures for the Current year 2013-14	Figures for the Previous year 2012-13
	1		2	3
II CAS	H OUTFLOW			
	n Operating Activities			
	oss from Operating Activities			
	djustments			
	Depreciation and Amortization		0.58	-
	/orking Capital Changes			
	ncrease in Inventories ncrease in Trade Receivables			76.88
	ncrease in Trade Receivables		184.08	76.88 38.45
	crease in Other Current Assets		104.00	30.45
	Decrease in Trade Payables			1.02
	Decrease in Current Liabilities			1.02
	Decrease In Provisions - Long Term			
	Decrease In Provisions - Short Term			
(c) I	Deferred Tax Assets/Liabilities		6.05	23.86
(d) D	irect Tax Paid (Net of Refunds)		15.03	4.72
		Total of (1)	205.74	144.93
(2) From	n Investing Activities			
	urchase of Tangible Assets / Capital Work -in-progres	s	13.31	3.93
	urchase of intangible Assets / Assets under Developr			0.41
• • •	urchase of Investments			
(d) In	vestment in Subsidiaries/Associates/Business Ventu	res		
(e) P	ayment of Long Term Loans & Advances to			
	ibsidiaries/Associates/Business Ventures			
	crease in other Long Term Loans & Advances		1.28	
(g) In	crease in other Non-Current Assets			
		Total of (2)	14.59	4.34
(3) From	n Financing Activities			
	epayment of Long Term Borrowings			
(b) R	epayment of Short Term Borrowings			
	Dividend Paid (including distribution Tax)			
(d) P	roceed from Short Term Borrowings/ Govt Grants		-	1.08
		Total of (3)		1.08
	TOTAL CASH OUTFLOW (1+2+3)		220.33	150.35
	decrease)/Increase in Cash and Cash equivalent (I -		-8.71	57.60
Add	cash and Cash Equivalents at the beginning of the Pe	eriod	117.89	60.19
IV Cash	and Cash Equivalents at the end of the Period		109.18 108.18	117.79
	posit Accounts with maturity more than 3 months		1.00	0.10
/ -				

Sd.-**(P. Lazar)** Company Secretary Sd.-(A. K. Soni) G. M (Finance) Sd.-(D. K. Ghosh) Director Sd.-(A. K. Debnath) Chairman-cum-Managing Director

In terms of our report of even date attached For TODI TULSYAN & CO. Chartered Accountants Firm Registration No.002180C

> Sd.-(CA SUSHIL KUMAR TULSYAN) Partner Membership No. 075899

Date : 10th May 2014 Place : Ranchi

SIGNIFICANT ACCOUNTING POLICIES

(Forming part of accounts for the year ended on 31/03/2014)

NOTE - 33

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, 1956 including accounting standards notified there under, except otherwise stated.

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 under the head Other income and the expenses are debited to respective heads.
- 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 and cash rehabilitation expenses and resettlement cost incurred for concerned displaced persons. Other expenditures incurred on acquisition of land viz. compensation in lieu of employment etc. are, however, treated as revenue expenditure.

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 Investments:

Current investments are valued at the lower of cost and fair value as at the Balance Sheet date. Investments in mutual fund are considered as current investments.

Non-current investments are carried at cost. However, when there is a decline, other than temporary, in the value of the long term investment, the carrying amount is reduced to recognize the decline.

5.0 Inventories:

- 5.1 Stores & Spares:
 - 5.1.1 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.
 - 5.1.2 Stock of stores & spare parts 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 centers, initially charged off, are valued at issue price of Area Stores, Cost / estimated cost. Workshop jobs including work-in-progress are valued cost.

- 5.1.3 Stores & spare parts include loose tools.
- 5.1.4 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.
- 5.2 Stock of Stationery (other than lying at printing press), bricks, sand, medicine (except at Central Hospitals), aircraft spares and scrapes are not considered in Inventory.

6.0 Depreciation:

6.1 Depreciation on Fixed Asset is provided on straight line method at the rates and manner specified in Schedule-XIV to the Companies Act, 1956 (as amended) except for telecommunication equipment, photocopying machine, Fax Machines, Mobile Phones, Digitally enhance cordless telephone and Computer (including printer & scanner), which are charged at higher rates on the basis of their technically estimated life, as follows:-

Telecommunication equipment	: -	15.83% p.a. and 10.55% p.a.
Photocopying machine	:-	23.75% p.a.
Fax Machine	:-	31.67% p.a.
Mobile Phone	:-	31.67% p.a.
Digitally enhance cordless telephone	:-	31.67% p.a.
Computer (including printer & scanner)	:-	31.67% p.a.

Depreciation on the assets added / disposed off during the year is provided on pro-rata basis with reference to the month of addition / disposal, except on those assets attracting 100% depreciation p.a. (SLM basis), which are fully depreciated in the year of their addition. Assets attracting 100% depreciation are taken out from the Assets after expiry of two years following the year in which these are fully depreciated.

7.0 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.

8.0 Foreign Currency Transactions:

- 8.1 Balance of foreign currency transaction is translated at the rates prevailing on the Balance Sheet date and the corresponding effect is given in the respective accounts. Transactions completed during the year are adjusted on actual basis.
- 8.2 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.

9.0 Retirement benefits / other 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) 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, Retired Executive Medical Benefit Scheme and compensation to dependants of deceased in mines accidents etc. are also valued on actuarial basis by applying projected unit credit method.

10.0 Recognition of Income and Expenditure:

Income and Expenditure are generally recognized on accrual basis and provision is made for all known liabilities.

10.1 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.
- b) The revenue recognition is done where there is reasonable certainty of collection. On the other hand, revenue recognition is postponed in case of uncertainty as assessed by management.

11.0 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, 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.

12.0 Provision:

A provision is recognized 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.

13.0 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 recognized 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.

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.

Additional Notes on Accounts (Forming part of accounts for the year ended on 31/03/2014)

Note – 34

1.0 FIXED ASSETS & DEPRECIATION

1.1 Fixed Assets

- 1.1.1 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.
- 1.1.2 The Company has got constructed houses and office complex in BCCL Township in Dhanbad ₹ 3.80 Crores (Pr. Yr. ₹ 3.80 Crores), and NCL Township in Singrauli ₹ 4.20 Crores (Pr. Yr. ₹ 4.20 Crores) on the land belonging to other subsidiaries of the Holding Company.

1.2 Depreciation

- 1.2.1. Computer Software is depreciated in the year of purchase @100%.
- 1.2.2. Value of lease-hold land is amortized over the lease period.
- 1.2.3. Assets whose actual cost does not exceed ₹ 5000/- are depreciated at 100% leaving a token value of ₹ 1/- for each of such assets.
- 1.2.4. During the year based on technically estimated useful life depreciation rates of the following assets were revised

Assets	Existing Dep. Rate	Revised Dep. Rate
Photocopying Machine	10.55%	23.75%
Fax Machine	15.83%	31.67%
Mobile Phone	15.83%	31.67%
Digitally Enhance		
Cordless telephone	15.83%	31.67%
Computer (including		
Printer & scanner)	16.21%	31.67%

Due to above changes depreciation has increased by ₹ 1.48 crores

2.0 STOCK OF STORES & SPARE PARTS

- 2.1.1. Machine-specific spares are capitalized along with the machines .There are no spares being machine- specific and of infrequent use which are to be capitalized in terms of Accounting Standard (AS) 2 read with AS 10.
- 2.1.2. The provision for Non-Moving & Obsolete Stores is ` 0.42 crores, (Pr. Yr. ` 0.33 crores) [Reference Note No -15].

3.0 LOANS & ADVANCES / DEBTORS

3.1 Current Accounts and Sundry Debtors Accounts with CIL Subsidiaries

- 3.1.1 Reconciliation of inter-company transactions in Current Accounts with other Subsidiaries of CIL has been carried out upto 31/03/2014. The agreed Current Account balances with the CIL Subsidiaries as on 31/03/2014 were transferred to CIL Current Account. Subsequently, if during the course of audit or otherwise any debit/credit advice received/sent from/to the Subsidiaries with respect to the periods upto 31/03/2014 is considered under Subsidiary Suspense Account.
- 3.1.2 Sundry Debtors of ₹ 201.18 Crores (Pr. Yr. ₹ 326.91 Crores) includes ₹ 164.59 Crores (Pr. Yr. ₹ 256.06 Crores) due from companies under same management [Reference Note No.-16]. Since 01/4/1993 the system of acceptances of bills by CIL Subsidiaries has been introduced for adjustment of accounts with CIL. Acceptances of bills are regularly monitored.

	5									
4.0 Details of Assets as per Note No. 10A	te No. 1	0A						4	Amount (₹	in crore)
(A) Fixed Assets & Software (Excluding Assets - S&T CCDA, EMSC,	iding Ass	ets - S&T CC		UNDP, PRE,	;, CIL R&D etc.)					
		GROSS	GROSS BLOCK				DEPRECIATION		NETB	NET BLOCK
PARTICULARS	As on 01.04.13	Addition during 2013-14	Adj./Sales/ Transfer 2013-14	As on 31.03.14	As on 01.04.13	Addition during 2013-14	Adj./Sales/ Transfer 2013-14	As on 31.03.14	As on 31.03.14	As on 31.03.13
Land										
(a) Freehold	1.15	1		1.15	'	1	•		1.15	1.15
(b) Leasehold	2.19	1		2.19	0.79	0.04	1	0.83	1.36	1.40
Buildings	41.32	0.32	(0.09)	41.55	14.55	0.75	(0.09)	15.21	26.34	26.77
Plant & Machinery	73.26	3.81	(2.81)	74.26	44.33	6.64	(2.64)	48.33	25.93	28.93
Fumiture & fittings/ Office Equipments etc.	15.53	1.19	(3.40)	13.32	11.30	0.74	(3.40)	8.64	4.68	4.23
Vehicle	12.52	0.02	(0.57)	11.97	6.92	0.91	(0.49)	7.34	4.63	5.60
TOTAL (A) - Fixed Assets	145.97	5.34	(6.87)	144.44	77.89	9.08	(6.62)	80.35	64.09	68.08
Software	2.80	0.75	(2.29)	1.26	2.80	0.75	(2.29)	1.26		
(B) Fixed Assets & Software (S&T CCDA, EMSC, UNDP, PRE, CIL R&D etc.)										
Land										
(a) Freehold	'	1		·	•	1	ı		,	
(b) Leasehold	'			'	1	1				1
Buildings	0.31	1		0.31	0.05		-	0.05	0.26	0.26
Plant & Machinery	35.12	0.42	(0.07)	35.47	28.44	1.22	(1.09)	28.57	6.90	6.68
Furmiture & fittings/ Office Equipments etc.	0.41	0.30	(0.03)	0.68	0.25	0.09	0.14	0.48	0.20	0.16
Vehicle	0.04	1		0.04	0.04			0.04		
TOTAL (B) - Fixed Assets	35.88	0.72	(0.10)	36.50	28.78	1.31	(0.95)	29.14	7.36	7.10
Software-	2.81		(1.86)	0.95	2.81		(1.86)	0.95		
			1							
TOTAL (A+B) Fixed Assets	181.85	6.06	(6.97)	180.94	106.67	10.39	(7.57)	109.49	71.45	75.18
I UIAL (A+B) Software	5.61	¢/.0	(4.15)	12.2	19.6	6/.0	(4.15)	. 12.2	•	
5.0. CAPITAL RESERVE :(Note No.2) 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 :	2) Grant ve and do the grant	: / Funds rec epreciation the is received.	eived under lereon is deb The details o	S&T, PRE, ited to Cal f Capital F	EMSC, C oital Rese teserve ar	CDA etc as rve Accoun e as below	s an impleme t. The owner :	enting agency and ship of the asset crr	used for c eated throu	reation of igh grants
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		4.13	0.05	0.09	0.00	6.47	0.34	0.09	11.17	
Addition		1.26	0.00		0.00	0.50	0.96		2.72	
		5.39	0.05	0.09	0.00	6.97	1.30	0.09	13.89	
Less : Depreciation & Adjustment		0.70	0.00	0.01	0.00	0.49	0.09	0.01	1.30	
	TOTAL	4.69	0.05	0.08	0.00	6.48	1.21	0.08	12.59	
Figures as on 31.03.2013		4.13	0.05	0.09	0.00	6.47	0.34	0.09	11.17	

6.0 TAX

6.1 Income Tax:

Income Tax advance of ₹ 144.14 Crores (Pr. Yr. ₹ 134.23 Crores). [Reference Note No-18] includes ₹ 22.34 Crores payments under protest against assessments for the years upto Assessment Year 2010-11. Income Tax provision of ₹ 84.52 Crores [Reference Note No-18] includes provision relating to assessment for the years up to Assessment Year 2014-15.

6.2 Service Tax:

Claims Receivables includes ₹ 5.05 crores recovered by Central Excise Department on account of disputed service tax, interest and penalty for earlier years. The company has filed Writ Petition before Hon'ble Jharkhand High Court to set aside Commissioner Central Excise & Service Tax's order.

7.0 CURRENT LIABILITIES & PROVISIONS:

7.1 Liabilities under Coal Mines Pension Scheme

- 7.1.1 Current Liabilities ₹ 0.27 Crores (Pr. Yr. ₹. 0.39 Crores) which includes ₹. 0.21 Crores deductions which could not be remitted due to certain employees being Non-CMPF members and deceased CMPF members not yet opted for pension.
- 7.1.2 There is also a liability for ₹ 0.01 Crores (Pr. Yr. ₹ 0.04 Crores) payable to the Pension Scheme being the additional increments granted by the Company w.e.f. 01/7/1995.
- 7.1.3 The above amounts of liabilities are inclusive of interest at the rate applicable to CMPF.
- 7.1.4 As against these liabilities ₹ 0.04Crores (Pr. Yr. ₹ 0.10 Crores) is held in Fixed Deposits with Bank.

7.2 Others

- 7.2.1 The liability for contractual drilling is provided on the basis of 100% value of meterage drilled for the period less payments made against such drilling.
- 7.2.2 Provision of ₹ 15.58 Crores (Pr. Yr. ₹ 12.71 Crores) and ₹ 35.26 Crores (Pr. Yr. ₹ 28.72 Crores) have been made in respect of Pension and Superannuation Benefit respectively w.e.f. 01.01.2007 (for executives only) as per actuarial valuation.
- 7.2.3 Under the Micro, Small and Medium Enterprises Development Act, 2006, which came into force on October, 2, 2006, certain disclosures are required to be made relating to Micro, Small and Medium Enterprises. The company is in the process of compiling relevant information from its suppliers about their coverage under the Act. Since the relevant information is not complete, no disclosures have been made in the Accounts.

7.3 Performance Related Pay

The company has made provision for Lumpsum Recoverable Advance against Performance Related Pay (PRP) for Executives ₹ 165.48 crores (i.e. for financial years 2007-08, 2008-09, 2009-10, 2010-11, 2011-12, 2012-13 & 2013-14 amounting to ₹ 16.05 crores, ₹ 10.90 crores, ₹ 28.20 crores, ₹ 29.77 crores, ₹ 24.53 crores, ₹ 27.70 and `28.33 crores in respective years) [Reference Note No-9]. The net amount of PRP ₹ 39.90 crores included in Note No.18 "Advance to Employee" is net of PRP Advance recovered from retiring employees on their superannuation.

8.0 THEFT & SNATCHING CASES

Theft cases amounting to Rs 24,612 has been reported during the period.

9.0 DIRECTORS' REMUNERATION

Amount (₹ in Crores)

		Current Year 2013-14	Previous Year 2012-13
(i)	Salary & Allowances including LTC/Leave Encashment	0.74	0.72
(ii)	Provident Fund	0.09	0.08
(iii)	Medical Expenses	0.04	0.01
(iv)	Value of Perquisites	0.16	0.18
(v)	Gratuity Paid	0.10	0.10

10.0 EARNINGS, EXPENDITURE ETC. IN FOREIGN CURRENCY

10.1 Expenditure in Foreign Currency

Amount (₹ in Crores)

		Current Year 2013-14	Previous Year 2012-13
(i)	Foreign training /tour, books & others	1.59	0.26
(ii)	Consultancy fee	0.00	0.00
	TOTAL	1.59	0.26

10.2 Value of Imports Calculated on CIF Basis.

Amount (₹ in Crores)

		Current Year 2013-14	Previous Year 2012-13
(i)	Capital Goods	0.62	0.95
(ii)	Spares & Components	0.03	0.00
	TOTAL	0.65	0.95

10.3 Earnings in Foreign Exchange

Nil

10.4 Value of imported and indigenous stores and spare parts consumed and percentage thereof to the total consumption

Amount (₹ in Crores)

			ent Year 13-14	Previous Year 2012-13	
		Value	Percentage	Value	Percentage
(i)	Imported	0.00	0.00	0.00	0.00
(ii)	Indigenous	19.99	100.00	15.28	100.00
	TOTAL	19.99	100.00	15.28	100.00

11.0 CONTINGENT LIABILITY

11.1 Claims against the Company not acknowledged as debt

- 11.1.1 Income Tax: In respect of completed assessment pending in appeal ₹22.34 Crores (Pr. Yr. ₹ 21.71 Crores).
- 11.1.2 Entry Tax : In respect of F/Y 2002-03 pending before Commissioner of Commercial Tax ₹ 0.17 Crores (Pr. Yr. ₹ 0.17 Crores).
- 11.1.3 (i) Service Tax : In respect of completed assessment ₹ 5.46 crores (Pr. Yr. ₹ 5.46 Crores) including ₹ 5.05 crores shown as claim receivable on account of disputed service Tax, interest and penalty for earlier year. The company has filed Writ Petition before Hon'ble Jharkhand High Court to set aside Commissioner Central Excise & Service Tax's order.

(ii) In respect of observation raised by Central Excise, Customs & Service Tax Department, Bhubaneshwar ₹ 0.58 Crores.

- (iii) In respect of demand raised by OSHB, Bhubaneshwar ₹ 0.16 Crores
- (iv) ₹ 0.49 (for 2003-04) in respect of which Department has appealed against the original order of CIT which is in favour of CMPDIL.
- 11.1.4 Other disputed claims pending in the courts and not provided for amount to ₹ 7.11 Crores (Pr. Yr. ₹ 8.20 Crores).
- 11.2 LC opened pending maturity during the period ₹ Nil (Previous year as on 31/03/2013 ₹ Nil).
- 11.3 Estimated value of contracts remaining to be executed on capital account and not provided for amounts to ₹ 18.57 Crores (Pr. Yr. ₹ 5.90 Crores).

11.4 Other matters :

- 11.4.1 There are certain suits pending in courts arising out of industrial and other disputes. The quantum of contingent liability in this regard could not be ascertained.
- 11.4.2 There is a counter guarantee of `0.14 Crores (Pr. Yr. 0.11 Crores) issued by the Company in favour of Bank for issuing Bank Guarantee on behalf of the Company.

12.0 REVENUE RECOGNITION

Services rendered to CIL Subsidiaries for P&D and Exploration are billed on Cost Plus Basis on accrual except Inspection Charges which are accounted for on receipt basis.

13.0 WRITE OFF

- 13.1. Stale cheques, which are more than three years old at the end of the period are written off.
- 13.2 Earnest Money and Security Deposit which are more than five years old at the end of the period are written off except disputed cases pending with court/arbitration.
- 13.3 Unclaimed liability other than that related to employees, lying for more than five years are written off except disputed cases pending with court/arbitration.

14. ACTUARIAL VALUATION OF GRATUITY LIABILITY AS AT 31.03.2014 TABLE 1::DISCLOSURE ITEM 120 (C) TABLE SHOWING CHANGES IN PRESENT VALUE OF OBLIGATIONS

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Table Showing Changes in Present Value Of Obligations	As at 31/03/2014	As at 31/03/2013
Present Value of Obligation at Beginning of year	130.33	124.30
Acquisition Adjustment	0.00	0.00
Interest Cost	10.72	9.17
Past Service Cost	0.00	0.00
Current Service Cost	7.25	6.97
Curtailment cost	0.00	0.00
Settlement Cost	0.00	0.00
Benefits Paid	8.44	19.40
Actuarial gain/loss on Obligations	-17.14	9.29
Present Value of Obligation at end of Year	122.72	130.33

TABLE 2::DISCLOSURE ITEM 120(E)

TABLE SHOWING CHANGES IN FAIR VALUE OF PLAN ASSETS:

NOT APPLICABLE AS SCHEME IS UNFUNDED

TABLE 3::DISCLOSURE ITEM 120(F)TABLE SHOWING FUNDED STATUS

NOT APPLICABLE AS SCHEME IS UNFUNDED

TABLE 4::DISCLOSURE ITEM 120(G) TABLE SHOWING EXPENSE RECOGNIZED IN STATEMENT OF PROFIT/LOSS:

	crores

		< III CIOIES
Table Showing Changes in Present Value Of Obligations	As at 31/03/14	As at 31/03/2013
Current Service Cost	7.25	6.97
Past Service Cost	0.00	0.00
Interest Cost	10.72	9.17
Expected Return on Plan Asset	0.00	0.00
Curtailment cost	0.00	0.00
Settlement Cost	0.00	0.00
Actuarial gain/loss recognized in the year	-17.14	9.29
Expense Recognized in Statement of Profit & Loss	0.83	25.43

TABLE 7::DISCLOSURE ITEM 120 (L)

TABLE SHOWING ACTUARIAL ASSUMPTIONS

	As at 31.03.2014	As at 31.03.2013
Mortality Table	IALM (2006-08) ULT.	IALM (2006-08) ULT.
Superannuation Age	60	60
Early Retirement & Disablement	10 PER THOUSAND P.A	10 PER THOUSAND P.A
	6 above age 45	6 above age 45
	3 between 29 and 45	3 between 29 and 45
	1 below age 29	1 below age 29
Discount Rate	8.50%	8.50%
Inflation Rate	6.25 %	6.25 %
Return on Asset	N/A	N/A
Remaining Working Life	11 Years	11 Years
FORMULA USED	Projected Unit Credit Method	Projected Unit Credit Method

TABLE 8::DISCLOSURE ITEM 120 (M)NOT APPLICABLE AS SCHEME IS NOT RELATED MEDICAL COST

TABLE 9::DISCLOSURE ITEM 120 (N)SUMMARY OF LAST 4 VALUATION RECORD COMPANY TO PRODUCE.

TABLE 10::DISCLOSURE ITEM 120 (O)MOVEMENTS IN THE LIABILITY RECOGNIZED IN BALANCE SHEET:

₹ in crores

	As at 31.03.2013	As at 31.03.2014
Opening Net Liability	0.00	0.00
Expenses as above	0.83	25.43
Contributions	0.00	0.00
Closing Net Liability	0.83	25.43
Closing Fund/Provision at end of Year	122.72	130.33

Note to Appendix B of AS - 15 (Revised 2005)

As the scheme is unfunded charges to profit /loss account has been based on following assumptions :-

- (1) previous obligation was provided for at last accounting date
- (2) benefit to exits has been paid to debit of above provision
- (3) current obligation will be provided for at current accounting date

15.0

ACTUARIAL VALUATION OF LEAVE ENCASHMENT BENEFIT(EL/HPL) AS AT 31.03.2014 TABLE 1::DISCLOSURE ITEM 120 (C) TABLE SHOWING CHANGES IN PRESENT VALUE OF OBLIGATIONS

₹ in crores

Table Showing Changes in Present Value Of Obligations	As at 31/03/2014
Present Value of Obligation at Beginning of year	74.03
Acquisition Adjustment	0.00
Interest Cost	5.76
Past Service Cost	0.00
Current Service Cost	5.96
Curtailment cost	0.00
Settlement Cost	0.00
Benefits Paid	12.55
Actuarial gain/loss on Obligations	3.30
Present Value of Obligation at end of Year	76.50

A TABLE 2::DISCLOSURE ITEM 120 (E) TABLE SHOWING CHANGES IN FAIR VALUE OF PLAN ASSETS:

NOT APPLICABLE AS SCHEME IS UNFUNDED

TABLE 3::DISCLOSURE ITEM 120 (F)TABLE SHOWING FUNDED STATUS

NOT APPLICABLE AS SCHEME IS UNFUNDED

TABLE 4::DISCLOSURE ITEM 120 (G)TABLE SHOWING EXPENSE RECOGNIZED IN STATEMENT OF PROFIT/LOSS:

Table Showing Changes in Present Value Of Obligations	As at 31/03/2014
Current Service Cost	5.96
Past Service Cost	0.00
Interest Cost	5.76
Expected Return on Plan Asset	0.00
Curtailment cost	0.00
Settlement Cost	0.00
Actuarial gain/loss recognized in the year	3.30
Expense Recognized in Statement of Profit & Loss	15.02

TABLE 7::DISCLOSURE ITEM 120(L)TABLE SHOWING ACTUARIAL ASSUMPTIONS

	As at 31.03.2014
Mortality Table	IALM(2006-08)ULT.
Superannuation Age	60
Early Retirement & Disablement	10 PER THOUSAND P.A
	6 above age 45
	3 between 29 and 45
	1 below age 29
Discount Rate	8.50%
Inflation Rate	6.25 %
Return on Asset	N/A
Remaining Working Life	11 Years
FORMULAUSED	Projected Unit Credit Method

TABLE 10::DISCLOSURE ITEM 120(O)

MOVEMENTS IN THE LIABILITY RECOGNIZED IN BALANCE SHEET:

₹ in crores

	As at 31.03.2014
Opening Net Liability	0.00
Expenses as above	15.02
Contributions	0.00
Closing Net Liability	15.02
Closing Fund/Provision at end of Year	76.50

Note to Appendix B of AS - 15 (Revised 2005)

As the scheme is unfunded charges to profit /loss account has been based on following assumptions :-

- (4) previous obligation was provided for at last accounting date
- (5) benefit to exits has been paid to debit of above provision
- (6) current obligation will be provided for at current accounting date

16.0 DEFERRED TAX

As per Accounting Standard (AS - 22) on Accounting for taxes on Income issued by the Institute of Chartered Accountants of India, the provision for deferred tax assets and liabilities as at 31.03.2014 has

been computed at ₹ 107.89 Crores and ₹ 6.30 Crores respectively. Net Deferred tax as at 31.03.2014 comprises of the following:

			Amount (₹ in Crores)
•	Deferred Tex Acces	As on 31/03/2014	As on 31/03/2013
A)	Deferred Tax Asset		
	VRS	0.00	0.00
	Software	0.17	0.09
	Provision for obsolescence/ Non – moving	0.14	0.11
	Provision for doubtful debts	0.99	1.06
	Provision for Leave Encashment, Gratuity &		
	other terminal benefits	106.59	101.50
	TOTAL (A)	107.89	102.76
B)	Deferred Tax Liability		
	Difference in WDV of assets	6.30	7.22
	TOTAL (B)	6.30	7.22
C)	Deferred Tax Asset (Net A – B)	101.59	95.54

17.0 SEGMENT-WISE PROFIT & LOSS STATEMENT :

Amount (₹ in Crores)

PARTICULARS	P&D	EXPLORATION	ENVIRONMENT	TOTAL	
REVENUE					
Sales of Services	215.79	406.24	25.40	647.43	
Misc. Income	4.60	0.34	0.07	5.01	
Total Revenue	220.39	406.58	25.47	652.44	
Result	53.29	71.37	6.10	130.76	
Unallocated Corporate Expenses				96.16	
Profit/Loss before Tax				34.60	
Provision for Income Tax				21.08	
Provision Deferred Tax				- 6.05	
Profit after Tax				19.57	

18.0 CORPORATE SOCIAL RESPONSIBILITY (C. S. R.)

A provision of ₹ 1.25 Crores (being 5% of retained profit of previous year) has been made towards Corporate Social Responsibility (C. S. R.) funds for the year ended 31/03/14. An amount of ₹ 1.82 Crores has been incurred during the period on this account.

19.0 SUSTAINABLE DEVELOPMENT RESERVE :

A provision of \gtrless 0.12 Crores (being 0.5% of retained profit of previous year) has been made towards Sustainable Development Reserve funds for the year ended 31/03/14. \gtrless 0.19 crores expense has been incurred during the period on this account.

20.0 PREVIOUS YEAR'S FIGURES

Previous Year's figures have been re-arranged / re-grouped / re-classified wherever necessary to make them comparable with those of the Current Year.

Signatures to Notes 1 to 19 for Balance Sheet, Notes 20 to 32 for Statement of Profit & Loss Account and Notes 33 & 34 for Accounting Policy and Additional Notes on Accounts.

Sd/-(P. Lazar) Company Secretary Sd/-(A. K. Soni) General Manager (Finance) Sd/-(**D. K. Ghosh)** Director Sd/-(A. K. Debnath) Chairman-cum-Managing Director

In terms of our report of even date attached **For TODI TULSYAN & CO.** Chartered Accountants Firm Registration No.002180C

Date : 10th May,2014 Place : Ranchi Sd/-(CA SUSHIL KUMAR TULSYAN) Partner Membership No. 075899

INFORMATION AS REQUIRED BY PART - IV OF SCHEDULE VI TO THE COMPANIES ACT, 1956

Balance Sheet Abstract and Company's General Business Profile

03 Jharkhand (State Code)

I.	Registration Details ;																
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CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

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Sd/-Sd/-Sd/-(P. Lazar)(A. K. Soni)(D. K. Ghosh)(A. K. Debnath)Company SecretaryGeneral Manager (Finance)DirectorChairman - cum - Managing Director

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